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The US Army's Center for Strategy and Force Evaluation

STUDY REPORT CAA-SR-93-7

# RENEWABLES AND ENERGY EFFICIENCY PLANNING STUDY (REEP)



# PREPARED BY FORCE SYSTEMS DIRECTORATE

US ARMY CONCEPTS ANALYSIS AGENCY 8120 WOODMONT AVENUE BETHESDA, MARYLAND 20814-2797



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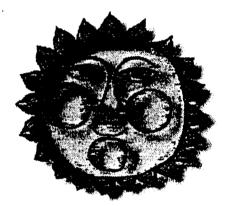
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STUDY REPORT CAA-SR-93-7

# Renewables and Energy Efficiency Planning Study (REEP)



August 1993

Prepared by Force Systems Directorate Mr. Steven B. Siegel, Study Director

US Army Concepts Analysis Agency 8120 Woodmont Avenue Bethesda, Maryland, 20314-2797



DEPARTMENT OF THE ARMY US ARMY CONCEPTS ANALYSIS AGENCY 8120 WOODMONT AVENUE

BETHESDA, MARYLAND 20814-2797



01 FEB 1994

#### MEMORANDUM FOR

Assistant Chief of Staff for Installation Management, Attn: DAIM-FDF, Washington, DC 20310-2600

U.S. Army Corps of Engineers, Office of Strategic Initiatives, Attn: CESI, 20 Massachusetts Avenue NW, Washington, DC 20314-1000

SUBJECT: Renewables and Energy Efficiency Planning Study (REEP)

1. Reference memorandum, CEHSC-FU-M, 1 June 1992, subject: Renewables and Energy Efficiency Planning Study (REEP) - Study Directive.

2. Referenced memorandum requested that the U.S. Army Concepts Analysis Agency (CAA) develop and apply an analytical methodology for evaluating the economic potential for investment in energy efficiency and renewable energy in Army facilities.

3. This final report documents the results of our analysis and incorporates your comments on the final draft report received 29 December 1993. The methodology provides a logical framework for integrating and analyzing U.S. energy and environmental policy, Army energy and environmental goals, Army programming and budgeting, and public and private sector funding. The core of the REEP methodology is a multiobjective mathematical programming model that can quickly generate and analyze optimal renewable energy and energy efficiency investment strategies for Army facilities on an annual basis through FY 2005. The model maximizes cost, energy, load, and pollutant savings for individual or combinations of renewable and conservation investments while explicitly considering budget constraints, energy and environmental goals, and economies of scale. The executive summary found in the report provides an overview of the entire study.

4. CAA expresses appreciation to all staff elements and agencies which have contributed to this study. Questions and/or inquiries should be directed to the Assistant Director, Force Systems Directorate, U.S. Army Concepts Analysis Agency, 8120 Woodmont Avenue, Bethesda, MD 20814-2797, DSN 295-5289.

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#### RENEWABLE AND ENERGY EFFICIENCY PLANNING (REEP) STUDY

STUDY SUMMARY CAA-SR-93-7

THE REASON FOR PERFORMING THIS STUDY was to develop and apply an analytical methodology for evaluating the economic potential for investment in energy efficiency and renewable energy at Army facilities.

THE SPONSORS were the Assistant Chief of Engineers, Department of the Army, and the Associate Chief of Engineers for Strategic Initiatives, US Army Corps of Engineers.

#### THE OBJECTIVES were to:

(1) Estimate the energy and cost savings that could result from economic investment in energy efficiency and renewable energy in Army facilities at selected sites.

(2) Estimate the costs associated with the economic investment in renewable energy and efficiency in Army facilities.

(3) Identify potential sources of funding for energy efficiency and renewable energy investment in Army facilities.

(4) Develop and evaluate investment strategy alternatives for undertaking economic investment in Army facilities.

#### THE SCOPE OF THE STUDY was:

(1) The timeframe of the analysis was fiscal year (FY) 1994 - FY 2005. Initially, the analysis was to address the period FY 1993 - FY 2010. However, with the passage of the Energy Policy Act of 1992 (EPACT), emphasis shifted to an energy conservation opportunity (ECO) investment strategy for the period FY 1994 - FY 2005.

(2) The study considered 49 US Army facilities in the continental United States (CONUS) with annual utility bills greater than \$5 million.

(3) The study considered renewable energy and energy efficiency technologies and measures that were in the research, development, demonstration, and commercialization phases of the product life cycle.

(4) The study examined application of ECO retrofit measures only.

(5) Both public and private sector funding sources were examined for ECO investment.

THE APPROACH used in the study was to first estimate the amount of commercially available energy efficiency and renewable energy investment for retrofit applications that would be economically feasible at 49 major Army sites in CONUS. A multiobjective mathematical programming model was then developed that quickly generates and analyzes optimal energy efficient and renewable energy investment strategy for Army facilities on an annual basis through FY 2005. The REEP methodology was demonstrated in support of the Army response to key provisions of the recently enacted Energy Policy Act.

# THE PRINCIPAL FINDINGS AND IMPLICATIONS OF THIS STUDY were that:

(1) The REEP methodology provides a logical approach for analyzing and integrating US energy and environmental policy, Army energy and environmental goals, Army programming and budgeting, and public and private sector funding. It provides Army energy decisionmakers

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and policy analysts with a much needed capability to more accurately and responsively develop and evaluate energy investment programs that are analytically defensible and credible. The methodology is inherently describe and transferable such that it can readily incorporate changes in data and analytic tools.

(2) The economic potential for investment in 47 ECO at 49 major US Army facilities in CONUS is 16,823,804 millions of British thermal units (Mbtu) of annual energy reduction, 724,128 kilowatts (kW) of demand reduction, \$249,446,020 of annual cost savings, and 2,415,337 short tons (STON) of annual pollution reduction. This potential must be captured as a requirement of EPACT which mandates all ECO with paybacks of 10 years or less be implemented at Federal facilities by 2005. The 49 facilities consume about three-quarters of the energy consumed at CONUS facilities or approximately one-half of facility energy usage Armywide. It is likely that much of this potential would be transferable to most of the other sites in the Army, since the ECO identified are commercially available and largely standard.

(3) The annual cost savings of \$249,446,020 generated from implementing the 47 ECO at the 49 sites provides direct economic benefits to both Army installations and the US Treasury. This occurs because Army policy requires one-third of the cost savings to be reinvested in additional ECO, one-third to be invested in installation quality of life measures (which could also be additional ECO), and one-third to the US Treasury. This policy further supports the EPACT provision requiring reinvestment of ECO cost savings. Cost savings accrued from these ECO not only pay for themselves, but additionally serve as a source of revenue that could be used for other applications, such as reducing the Federal budget deficit. Utilities and their customers would also benefit in that the need for expensive new plant construction could be deferred.

(4) Approximately 19 percent of the annual energy savings produced by the ECO is attributable to reduced oil consumption at Army facilities and servicing electric utilities. This decrease in oil use equates to about 503,598 barrels per year. Currently, about 42 percent of oil products supplied in the US is imported. Applying this percentage to the oil savings calculated for the 47 ECO at the 49 CONUS sites, 211,511 less barrels of oil would need to be imported if all the ECO were implemented. Reducing oil imports directly contributes to a reduction in the US trade deficit. It also strengthens national security by reducing US dependence on potentially unstable foreign sources of energy. Decreasing US dependence on oil imports also contributes to reducing the US military's requirements for protecting the supply routes used to import oil.

(5) The reduction in annual pollutant emissions of 2,415,337 STON resulting from ECO implementation provides significant environmental and health benefits to the populations of the 49 facilities and nearby communities (including those near the servicing utilities). Pollution abatement also generates considerable economic benefits, such as a decrease in cost requirements for cleaning up polluted air and water resources "after the fact." Other examples of monetary benefits from pollution reduction include decreases in both health care costs and the costs utilities incur in meeting environmental standards prescribed by law.

(6) The 47 ECO evaluated in this study constitute a sample of the technologies that could substantially reduce Army energy consumption, save dollars, and reduce pollutant emissions. Other available opportunities include water conservation technologies, which are now regarded as energy conservation opportunities per direction from EPACT; new building construction in addition to retrofit applications examined in this study; and increased investment in energy efficiency and renewables beyond the ECO identified in this study.

**THE STUDY EFFORT** was directed by Mr. Steven B. Siegel, Force Systems Directorate, US Army Concepts Analysis Agency (CAA).

**COMMENTS AND QUESTIONS** should be sent to the Director, US Army Concepts Analysis Agency, ATTN: CSCA-FSR, 8120 Woodmont Avenue, Bethesda, MD 20814-2797.

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#### **RENEWABLES AND ENERGY EFFICIENCY PLANNING (REEP) STUDY**

#### CHAPTER 1

#### **EXECUTIVE SUMMARY**

**1-1. PURPOSE.** The purpose of the Renewables and Energy Efficiency Planning (REEP) Study was to develop and apply an analytical methodology for evaluating the economic potential for investment in energy efficiency and renewable energy at Army facilities.

#### 1–2. BACKGROUND

**a.** The Army requires a quick turnaround decision support capability that can evaluate renewable energy and energy efficiency investment issues. The requirement for this capability is based upon the increasingly complex nature of analyzing the potential for renewable energy and energy efficiency in the Army when considering factors such as energy system costs and performance, policy requirements, alternative sources of funding, budget constraints, the industrial base, environmental considerations, and institutional characteristics. An analytical methodology that could logically incorporate these factors in support of the energy investment decisionmaking process in the Army was developed and applied in the study.

**b.** The Energy Policy Act of 1992 (P.L. 102–486) (EPACT) was enacted to increase the use of renewable energy and energy efficiency in the industrial, commercial, residential, and Federal sectors of the economy. Key provisions in the Act require:

- All energy efficiency and renewable energy measures in Federal facilities that have a payback of 10 years or less be implemented by 2005, and
- The reduction in energy use per square foot by 20 percent during the period 1985–2000 (same as Executive Order 12759, 17 April 1991) for Federal buildings and facilities.

Other EPACT provisions that affect renewable energy and energy efficiency investment in the Army are the increasing use of energy performance contracts, participation in utility demand side management programs, and reducing pollutant emissions due to energy production. Subsequent to the enactment of EPACT (which occurred about midway through the study), evaluating the feasibility of using the REEP methodology to address the provisions of EPACT became a high priority of the study.

c. Study Sponsors. The Assistant Chief of Engineers, Department of the Army, and the Associate Chief of Engineers for Strategic Initiatives, United States (US) Army Corps of Engineers, are the study sponsors (REEP study directive included at Appendix B).

1-3. SCOPE. The fundamental scope of REEP is outlined below. More specific parameters and assumptions are identified in Chapter 3 with the various case analyses in which they apply.

**a.** The timeframe of the analysis was fiscal year (FY) 1994-FY 2005. Initially, the analysis was to address the period FY 1993-FY 2010. However, with the passage of EPACT, emphasis shifted to analyzing energy conservation opportunity (ECO) investment strategy for the period FY 1994-FY 2005.

**b.** The study considered 49 US Army facilities in the continental United States (CONUS) with annual utility bills greater than \$5 million.

c. The study considered renewable energy and energy efficiency technologies and measures that were in the research, development, demonstration, and commercialization phases of the product life cycle.

**d.** The study examined application of ECO retrofit measures only.

e. Both public and private sector funding sources were examined for ECO investment.

#### **1-4. OBJECTIVES**

**a.** Estimate the energy and cost savings that could result from economic investment in energy efficiency and renewable energy in Army facilities at selected sites.

**b.** Estimate the costs associated with the economic investment in renewable energy and efficiency in Army facilities.

c. Identify potential sources of funding for energy efficiency and renewable energy investment in Army facilities.

**d.** Develop and evaluate investment strategy alternatives for undertaking economic investment in Army facilities.

#### **1–5. METHODOLOGY**

a. Overview. The methodology used to conduct the REEP Study is illustrated by Figure 1-1. This methodology was designed for developing and evaluating optimal ECO investment strategies in the Army. The methodology provides an integrated engineering, financial, and economic approach for addressing the major issues associated with the formulation and analysis of these strategies. The ordering of the tasks indicates the general sequence of task execution. In some cases, tasks were performed simultaneously. For example, Task 1--which involved the identification and evaluation of ECO--was conducted throughout the study.

**b.** Task 1--Estimate Remaining Economic Potential of ECO. This task first entailed estimating the amount of commercially available ECO investment for retrofit applications that were technically feasible at 49 major Army sites in CONUS. The term "ECO" is defined in this study to include both energy efficiency and renewable energy technologies. Detailed site-specific ECO characteristics such as investment costs, energy, demand and cost savings, and reductions in pollutant emissions were developed by the US Army Construction Engineering Research Laboratory (CERL) for all ECO. From these technically feasible ECO, economically feasible ECO were then specified using a 10-year simple payback (per EPACT). Other criteria (e.g., net present value) for determining economic feasibility could be used depending upon the context of the analysis. The total number of existing economically feasible ECO were adjusted using market penetration surveys of Army energy experts to determine the amount of ECO investment already implemented. The cost, energy, and demand savings and pollutant reduction that would result from investing in ECO that have not been implemented to date constituted the remaining economic potential.

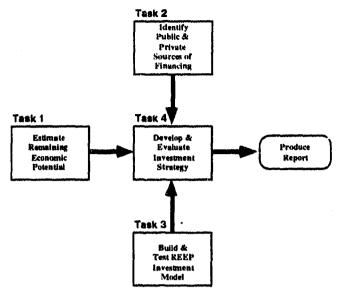


Figure 1–1. REEP Methodology

c. Task 2--Identify and Describe Sources of Financing. This task identified and described potential sources of funds for investment in Army ECO. Sources of ECO finance that were examined included governmental programs as well as private institutions such as utilities and energy service companies. The principal purpose of this task was to identify the terms and conditions (such as dollar limitations and required payback periods) of using the different potential funding sources for ECO investment. The terms and conditions identified were then used to formulate budget constraints required by the investment model developed in Task 3.

d. Task 3--Build and Test a REEP Investment Model (RIM). This task involved designing, building, and testing a multiobjective linear programming model--RIM. The model maximizes cost, energy, and load savings and pollutant reduction for individual or combinations of renewable and conservation investments, while explicitly considering budget constraints, energy and environmental goals, and economies of scale. RIM develops and analyzes optimal renewable energy and energy efficiency investment strategies at US Army facilities on an annual basis (i.e., what to buy, how many, where, and when).

e. Task 4--Develop and Evaluate Investment Strategy. This task demonstrated and applied RIM to a variety of policy and programmatic issues. The principal issues that were evaluated included:

- What should the investment strategy be for a sample of 16 ECO specified at US Army facilities in CONUS that maximizes cost savings and can be implemented completely by FY 2005?
- What should the investment strategy be for 47 ECO specified at US Army facilities in CONUS that maximizes cost savings and can be implemented completely by FY 2005?

The last issue served as a "base case," since it considered the total number of economically feasible ECO identified in the REEP Study and is in accordance with EPACT and Army energy policy.

1-6. FINDINGS AND IMPLICATIONS. The benefits to be derived in using the REEP methodology for energy policy management and planning are illustrated in Figure 1-2. The methodology utilizes an operations research/systems analysis approach for evaluating and implementing National, DOD and Army energy policy. It does this through an optimization process, producing energy conservation and renewable energy investment strategies that yield the most "benefit" possible (such as improving the environment) given a set of resource constraints and policy goals and requirements. This section discusses and highlights six major findings and implications resulting from the development and application of the REEP methodology in this study.

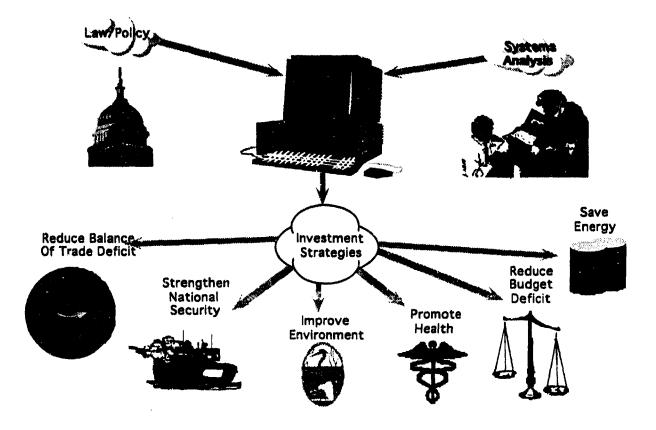


Figure 1-2. Major Benefits Derived from Using REEP Methodology

a. The REEP methodology provides a logical approach for analyzing and integrating US energy and environmental policy, Army energy and environmental goals, Army programming and budgeting, and public and private sector funding. It provides Army energy decisionmakers and policy analysts with a much needed capability to more accurately and responsively develop and evoluate energy investment programs that are analytically defensible and credible. The methodology is inherently flexible and transferable such that it can readily incorporate changes in policy, data, and analytic tools.

**b.** The economic potential for investment in 47 ECO at 49 major US Army facilities in CONUS is 16,823,804 millions of British thermal units (Mbtu) of annual energy reduction, 724,128 kilowatts (kW) of demand reduction, \$249,446,020 of annual cost savings, and 2,415,337 short tons (STON) of annual pollution reduction. This potential must be captured as a requirement of EPACT which mandates all ECO with paybacks of 10 years or less be implemented at Federal facilities by 2005. The 49 facilities consume about three-quarters of

the energy consumed at CONUS facilities, or approximately one-half of facility energy usage Armywide. It is likely that much of this potential would be transferable to most of the other sites in the Army, since the ECO identified are commercially available and largely standard.

c. The annual cost savings of \$249,446,020 generated from implementing the 47 ECO at the 49 sites provides direct economic benefits to both Army installations and the US Treasury. This occurs because Army policy requires one-third of the cost savings to be reinvested in additional ECO, one-third to be invested in installation quality of life measures (which could also be additional ECO), and one-third to the US Treasury. This policy further supports the EPACT provision requiring reinvestment of ECO cost savings. Cost savings accrued from these ECO not only pay for themselves, but additionally serve as a source of revenue that could be used for other applications, such as reducing the Federal budget deficit. Utilities and their customers would also benefit in that the need for expensive new plant construction could be deferred.

d. Approximately 19 percent of the annual energy savings produced by the ECO is attributable to reduced oil consumption at Army facilities and servicing electric utilities. This decrease in oil use equates to about 503,598 barrels per year. Currently, about 42 percent of oil products supplied in the US is imported.\* Applying this percentage to the oil savings calculated for the 47 ECO at the 49 CONUS sites, 211,511 less barrels of oil would need to be imported if all the ECO were implemented. Reducing oil imports directly contributes to a reduction in the US trade deficit. It also strengthens national security by reducing US dependence on potentially unstable foreign sources of energy. Decreasing US dependence on oil imports also contributes to reducing the US military's requirements for protecting the supply routes used to import oil.

e. The reduction in annual pollutant emissions of 2,415,337 STON resulting from ECO implementation provides significant environmental and health benefits to the populations of the 49 facilities and nearby communities (including those near the servicing utilities). Pollution abatement also generates considerable economic benefits, such as a decrease in cost requirements for cleaning up polluted air and water resources "after the fact." Other examples of monetary benefits from pollution reduction include decreases in both health care costs and the costs utilities incur in meeting environmental standards prescribed by law.

**f.** The 47 ECO evaluated in this study constitute a sample of the technologies that could substantially reduce Army energy consumption, save dollars, and reduce pollutant emissions. Other available opportunities include water conservation technologies, which are now regarded as energy conservation opportunities per direction from EPACT; new building construction in addition to retrofit applications examined in this study; and increased investment in energy efficiency and renewables beyond the ECO identified in this study. These additional ECO should be analyzed and adopted in the Army as appropriate.

<sup>\*</sup> First quarter, 1993. Source: Energy Information Administration, *Monthly Energy Review*, June 1993, Table 1.8.

#### CHAPTER 2

#### **REEP METHODOLOGY**

#### **2–1. INTRODUCTION**

a. A primary objective of this study was to develop and demonstrate a methodology to use in formulating and evaluating ECO investment strategies in the Army. An integrated engineering, financial, and economic approach was developed to address major issues involved in developing and assessing these strategies. The four tasks that compose the methodology are illustrated in Figure 2–1. Since a large portion of these tasks involved progressive work, it was necessary to continuously examine each task thoroughly to gauge impacts upon other components of the study. Task 1 established the opportunities for investment in energy efficiency and renewables at major energy consuming Army facilities in CONUS. Potential funding sources for these opportunities were identified and described in Task 2. Task 3 involved designing, developing, and testing a model that determined the optimum methods (and economic impacts) for investing in these opportunities over time. In Task 4, the methodology was applied to address selected energy related issues that arose during the course of the study.

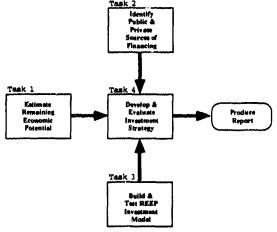


Figure 2–1. REEP Methodology

**b.** The four tasks in the methodology were essentially performed in the sequence order depicted in Figure 2–1. However, there was a "moving train" aspect to each task, such that many of the individual task efforts were conducted concurrently. That is, as more extensive and refined data or methodological improvements were identified, they were incorporated into the methodology and applied during subsequent analysis. This was especially the case for Task 1, in which ECO were continuously identified, developed, and evaluated throughout the study. This chapter discusses the individual tasks accomplished in developing the methodology used to perform the REEP Study.

#### 2-2. TASK 1 - ESTIMATE REMAINING ECONOMIC POTENTIAL

**a.** General. Task 1 was organized into three subtasks--identify economically feasible ECO, estimate ECO energy, demand, cost savings, and pollution reduction by building category, and estimate ECO market captured to date. The engineering analysis conducted in the first two subtasks was conducted by CERL engineers.

**b.** Identify Economically Feasible ECO. Economically feasible ECO were identified using three principal selection criteria. First, an ECO had to be commercially available. This included "off the shelf" ECO technologies that were already available in the marketplace or which, if purchased in large enough quantities, would become available in the marketplace. The second selection criterion was the ability for broad application. ECO examined in the REEP Study were to be installed in Army facilities across CONUS. Thus, the study team wanted to compile a list of ECO whose technology was easily adaptable to and replicable in a variety of installations. This broad applicability of ECO technology would help the REEP Study account for as much economic potential as possible. The third criterion was established, given the passage of EPACT, which requires Army investment in all ECO with paybacks of 10 years or less by the year 2005. As a result of this requirement, the REEP Study focused on identifying and evaluating ECO with paybacks of 10 years or less. By the end of this study, CERL and CAA had identified 47 ECO that met all three criteria.

c. Estimate ECO Energy, Demand, and Cost Savings by Building Category. In making energy, demand, and cost saving estimates, CERL considered the types of buildings existing on Army facilities. This was necessary for two reasons. First, not all ECO can be applied to all types of buildings. While it is practical to install occupancy sensors in administration buildings, it may not be in barracks. Secondly, different building types can have large variations in the type and level of energy consumption. Other factors which had to be considered by CERL in making their estimates included the number of buildings at an installation, building size, and building function. Ten building categories<sup>\*</sup> were used to classify standard functions of buildings found across Army facilities. These categories are listed in Figure 2--2. This allowed the engineering data to be specified in terms of ECO type and building category (e.g., energy efficient lighting in family housing would be evaluated as a distinct opportunity). Using this approach, much of the data (e.g., technical performance) developed for an ECO in a particular building category could be applied to different facilities that included the building category specified.

Training	Administration
Maintenance and production	Unaccompanied personnel housing
Research, development, and testing	Community
Storage	Family housing
Hospital and medical	Other

Figure 2-2. Building Categories

d. Estimate ECO Market Captured to Date. To estimate the remaining economic potential of the ECO identified, it was first necessary to determine the amount of ECO investment implemented to date. Given the difficulty of obtaining historical market share data, CAA in conjunction with the sponsors and CERL, believed that the most knowledgeable source of information concerning present ECO market penetration would be Army engineers, logisticians, facility managers, and other experts who had approximately 30 years of experience in the field. A survey questionnaire was administered to these experts requesting data on the current penetration of each ECO at US Army facilities in CONUS. The results of this survey are presented in Chapter 3. Survey estimates were utilized to establish the remaining economic potential of the ECO.

<sup>\*</sup> The 10 building categories were derived from AR 415-28, Department of the Army Facility Classes and Construction Categories (Category Codes), November 1981.

#### 2-3. TASK 2 - IDENTIFY AND DESCRIBE SOURCES OF FINANCE

**a.** This task identified and described potential funding sources for investment in Army ECO. The principal reason for performing this task was to determine the basic terms and conditions for accessing these financial sources and to assess potential fund availability for developing budget parameters and model constraints. The intent was to allow the model to select the budget source that would best suit investment in certain types and quantities of ECO. An example would be for the model to utilize a well-endowed finance source for ECO requiring a large investment. This task was also important in gaining a fundamental understanding of the finance sources.

**b.** Sources of potential ECO finance that were examined included governmental programs, as well as private institutions, such as utilities and energy service companies. As a result, a wide variety of data sources was identified including Army agencies, Office of the Secretary of Defense (OSD), Department of Energy (DOE), nonprofit organizations, and utilities. A myriad of regulations, directives, reports, letters, and legislation were reviewed as part of this research. An additional objective of Task 2 was to gain an appreciation of the Army's experience in using the different finance sources to help identify their relative strengths and weaknesses. Because of the amount of information collected in this task, the results are presented in Appendix F, with an overview presented in Chapter 3.

#### 2-4. TASK 3 - BUILD AND TEST REEP INVESTMENT MODEL (RIM)

a. This task constituted the core of the REEP methodology--the development of RIM. RIM is a multiobjective mathematical programming model that can generate and analyze optimal renewable energy and energy efficiency investment strategies at US Army facilities on an annual basis (i.e., what to buy, how many, where, and when). The model maximizes cost, energy, and demand savings and pollutant reduction that result from ECO investment.

**b.** Cost savings refers to the dollars saved by ECO implementation. Dollar savings occur because ECO decrease energy consumption (and sometimes electricity demand requirements), resulting in less dollar expenditures for energy. Energy savings are the amount of decreased energy consumption obtained through ECO implementation and are measured in Mbtu. Electrical demand refers to the amount of power required for an electrical device to operate and is measured in terms of kW. Pollutant reduction refers to the decrease in atmospheric pollutant emissions achieved by ECO implementation. This reduction occurs because decreased energy consumption causes utilities to burn less fuel (especially fossil fuels) to produce less energy. Pollutant reductions are measured in terms of STON.

c. The budget constraint is established by the amount of funds available for ECO investment in a given fiscal year. More than one budget constraint can be considered in cases when more than one source of available funds can be articulated. In general, budget constraints are set by Army programming policy and Congressional appropriation. ECO investment cannot exceed available funds (as established by the budget constraint) in any fiscal year. The budget constraint variable is determined outside RIM. Quantifiable energy and environmental goals are also regarded as constraints in the model, if they are requirements that must be achieved. An example of a quantifiable energy goal would be the requirement established in Executive Order 12759 that energy consumption at Federal facilities must decrease by 20 percent between FY 1985 and FY 2000.

**d.** During the initial phase of the study, the types of data output required from RIM were developed. This initial list of generalized data outputs served as a point of departure in the development of a list of generalized data inputs for the model (see Table 2–1). As the logic of RIM developed, the specific data inputs required to run the model were also identified. Once the

data input requirements were specified, likely sources of these data were identified. Tasks 1 and 2 involved the collection and development of the data necessary for RIM. Chapter 3 addresses the actual data used (and their sources) to run the model and the resulting data outputs.

Investment strategy decisions
I MIT SUMME SUMMES ASSISTING
(quantity, type, time, and place)
Investment strategy costs
Annual and total cost savings (in dollars)
Annual and total energy savings (in Mbtus)
Annual and total demand savings (kilowatts)
Annual and total pollutant reduction (in short tons)

Table 2–1. RIM Data Inputs and Outputs	Table	2-1.	RIM	Data	Inputs	and	<b>Outputs</b>
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<sup>a</sup>Outputs can be presented in terms of CONUS, major Army command (MACOM), state/region, or building category.

2-5. TASK 4 - DEVELOP AND EVALUATE INVESTMENT STRATEGY. The purpose of this task was to apply the REEP methodology to develop and evaluate ECO investment strategies for Army facilities in CONUS. By formulating a strategy, the capabilities of RIM for use in making ECO investment decisions would be demonstrated. A base case scenario was developed that incorporated Army policy and Federal mandates. For example, a key component of Army policy included in the base case is its allowance of one-third of the cost savings accrued through prior ECO investment to be used for purchasing additional ECOs in the following years. Federal mandates emanated from EPACT. A key provision of this act was that all ECO with paybacks of 10 years or less must be implemented at Federal agencies by 2005. To further display the capabilities of RIM, alternative scenarios which addressed important aspects of energy and environmental issues were derived. These scenarios included variations in the number of ECO considered, differing rollover rates, and the grouping of sites for a given region. Several of these scenarios were developed for the Renewable and Energy Efficiency Sustainable Investment (REESIN) Quick Reaction Analysis (QRA and are documented in a separate report.

#### CHAPTER 3

#### ANALYSIS AND RESULTS

3-1. INTRODUCTION. Chapter 3 presents the results of executing the REEP methodology (see Figure 2-1) during the course of the study period. The utility of the methodology is highlighted by its flexibility, in that it can readily incorporate changes and improvements in data and analytical tools. Therefore, to sustain the integrity of REEP analysis in the future, the data bases and models that currently support the methodology should be updated and refined as required. This chapter first provides an overview of Tasks 1, 2, and 3; and then describes two applications of Task 4. Detailed documentation of the engineering analysis portion of Task 1 is provided in a separate report prepared by CERL. The outcome of Task 2 is more fully discussed in Appendix F. The technical and operational characteristics of RIM (Task 3) are described in Appendices D and E.

3-2. ESTIMATE REMAINING ECONOMIC POTENTIAL (TASK 1). The objective of Task 1 was to identify economically feasible ECO among major US Army facilities in CONUS and estimate the energy, demand, and cost savings and pollutant reduction that would result from implementation of the identified ECO. This task was organized into three subtasks: identify economically feasible ECO; estimate ECO energy, demand, and cost savings by building category, and estimate ECO market captured to date. The energy, demand, and cost savings and pollutant reduction associated with economically feasible ECO constitute the economic potential of the devices.

a. Identify Economically Feasible ECO. Not all of the renewable energy and energy conservation investment that is technically feasible is economic. For the purpose of this study, an ECO was considered economically feasible if its calculated simple payback was 10 years or less. This investment criterion was based on the provision established by EPACT requiring all ECO identified in the Federal government with paybacks of 10 years or less be acquired by 2005. An initial list of ECO was jointly developed by CAA and CERL analysts. This list was further evaluated by CERL engineers to develop a list of 47 ECO that would pay back in 10 years or less at a major energy-consuming CONUS site. A facility was considered a major energy consumer if its annual utility bill was greater than \$5 million. In CONUS, 50 US Army sites met this criterion. The Presidio at San Francisco was not considered in this study given the Base Realignment and Closure (BRAC) Commission decision of 1991 to close this facility—leaving 49 sites (see Figure 3–1). Other ECO with paybacks greater than 10 years were identified by CERL, but were not considered in this study. The 47 ECO developed and evaluated for this study are shown in Figure 3–2.

Ft Bragg	Ft McPherson	Ft Gordon	Corpus Christi	Detroit Ars
Ft Campbel	Ft Meade	Ft Huachuca	Pine Bluff	Ft Monmouth
Ft Carson	Ft Ord	Ft Jackson	Pueblo	Redstone Ars
Ft Devens	Ft Polk	Ft Knox	Red River Dpt	Aberdeen PG
Ft Drum	Ft Riley	Ft Leavenworth	Rock Island Ars	Picatinny Ars
Ft Hood	Ft Stewart	Ft Lee	Tooele Dpt	White Sands
Ft Sam Houston	Ft Benning	Ft Rucker	Watervliet Ars	Ft Detrick
Ft Irwin	Ft Bliss	Ft Sill	Holston AAP	WRAMC
Ft Lewis	Ft Dix	Ft Leonard Wood	Lake City AAP	Ft Belvoir
Ft McCoy	Ft Eustis	Anniston Dpt	Radford AAP	

Figure 3–1. REEP Installations

	Envelope
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Lighting	
2x4 fluorescent lighting retrofit	Radiant barriers
Compuct fluorescent retrofit	High reflectance roof surface
Exit lighting retrofit	Window films
Occupancy sensors	Solar shading devices
Replace mercury vapor with high pressure sodium	Family housing blown-in insulation
lamps	
Efficient street lighting	6.5 inches of additional ceiling insulation
Constant level lighting	
Electrical	Water
Small ventilation motor retrofit	Water heater insulation blanket
Medium size ventilation motor retrofit	Showerhead flow restrictors
Large size ventilation motor retrofit	Faucet flow restrictors
Small ventilation motor retrofit with	
adjustable speed drive	Desuperheaters
Medium ventilation motor retrofit with	
adjustable speed drive	Hot water heat pump
Large ventilation motor retrofit with	
adjustable speed drive	Instantaneous hot water heaters
Heating/cooling	Utilities
Pulse combustion/modular boiler	Heating distribution repair
Single loop digital control panels	Manhole sump pump repair
Ventilation heat recovery	Cool storage
Programmable thermostats in family housing	Direct-fired gas fited chillers greater than 100 tons
Seal duct leaks	Energy management control system
High efficiency gas furnaces for family	
housing	
Gas engine driven heat pumps for	] [
family housing	Renewables
Nominal efficiency furnaces for family housing	Solar water heating for family housing
Flue dampers/electronic ignition	Wind energy
High (SEER) air conditioning units	Microclimate modifications
	Solar powered street lights
Miscellaneous	Solarwall
Refrigerator replacements for family	Solar water heating for barracks
housing	, i i i i i i i i i i i i i i i i i i i

Figure 3–2. REEP ECO

**b.** Estimate ECO Energy, Demand, and Cost Savings by Building Category. The engineering data developed by CERL was provided in EXCEL spreadsheets to facilitate input into RIM. An example of this type of spreadsheet format is shown in Table 3-1. Key data used from these spreadsheets for the model include: the ECO's energy, demand, and cost savings; the ECO's impact on pollutant emissions; the initial and recurring costs associated with the ECO; and the number of years for an ECO payback. Note that the types of buildings in which the ECO would apply are specified at the bottom of the spreadsheet (see line 70 in Table 3-1). That is, each ECO was specified not only in terms of technology and site, but the applicable type(s) of building categories as well. As a result, a total of 6,936,218 items, 68,774,907 square feet, and 127,056 ton-hours of ECO were identified by particular end use. Other factors that were considered in the evaluation of the ECO included technical performance, climate, utility rates, and primary fuel source. The approach used to develop the ECO data can address changes in a variety of conditions, such as increases in fuel prices and personnel realignments caused by BRAC. The versatility of this pproach is founded on the categorization of ECO by functional end use, and more specifically, the 10 building categories listed in Figure 2-2. This enabled many of the performance and operational aspects of ECO to be quickly modeled among similar building types at different sites.

 Table 3-1. Example Engineering Data Spreadsheet

 (page 1 of 3 pages)

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Table 3-1. Example Engineering Data Spreadsheet (page 2 of 3 pages)

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c. Estimate ECO Market Captured to Date. A required data input to RIM is the remaining ECO economic potential. While the installation of some REEP ECO would be for the first time, others have been previously installed on a limited scale. To more accurately estimate the remaining economic potential of REEP ECO, an accounting of prior ECO investment was necessary.

(1) An accounting of prior ECO investment was accomplished through a survey questionnaire completed by individuals from the Army energy community. Surveys were distributed on two separate occasions, the first being at the US Army Corps of Engineers National Energy Team (CENET) meeting in November, 1992. Respondents were given a list of REEP ECO and asked to estimate the percent of the economic potential already captured for each ECO. Survey takers were told to consider domestic Army facilities only, and provide a low and high estimate for each ECO. High and low estimates were requested so a response range could be established. The REEP study team collated the survey results and produced a median high and low statistic for each ECO. The study team decided to use the median because of some outliers in the survey results. Using the mode would have been inappropriate due to some response distributions that were bimodal.

(2) Results from the first survey were incorporated into the second. The second survey was distributed at the CENET meeting held in April 1993. This second survey was identical to the first, in that it requested low and high estimates of ECO economic potential already captured for the REEP ECO. The second survey differed from the first in that it listed the low and high median statistics that resulted from the first survey. Survey takers were instructed to examine the results from the first survey on a ECO by ECO basis. If they agreed with the results for a given ECO, then no alterations would be made to the survey form. If respondents disagreed with the outcome of the first survey for a given ECO, then they were to edit the initial results accordingly.

(3) The results of the survey were collated by the REEP study team, and median low and high statistics were calculated on a ECO basis. To serve as the estimator for captured ECO economic potential, the REEP study team decided to use the high median statistics. This was done to produce conservative estimates, that is estimates on the high end of ECO economic potential already captured. The data variable that is ultimately fed into RIM is the remaining economic potential of an ECO. This is calculated by subtracting the captured ECO economic potential (in percent) from 100. By using the high median estimate, the remaining economic potential will be lower (as opposed to using the low median estimate). Thus, RIM will produce energy, cost, demand, and pollutant reduction savings estimates on the low end, establishing a lower bound for potential savings.

(4) Survey results are presented in Table 3-2. The REEP ECO are grouped into category types. To the right of each ECO is the estimated remaining economic potential, in percent. The degree of remaining economic potential varied considerably depending upon the ECO. For example, the ECO with the lowest estimated remaining potential was additional ceiling insulation, at 27.5 percent. Direct-fired gas fired chillers (greater than 100 tons) was the ECO with the highest estimated remaining potential, at a full 100 percent. It should be noted that there were six ECO that had no survey estimates. This occurred because these ECO were introduced into the REEP ECO study set after the surveys were completed. For these six ECO, a default value of 70 percent was substituted for remaining economic potential. The default values are denoted with an asterisk in Table 3-2.

economic			
	E.C.O.	economic	
potential (%)	ECO	potential (%)	
		47.5	
1		55	
82.5		55	
95	Desuperheaters	98	
		70 <sup>a</sup>	
77.5	Instantaneous hot water heaters	70 <sup>a</sup>	
70 <sup>a</sup>		الله الإخريج معاركة مع المراجع المراجع المراجع المراجع	
	Miscellaneous Refrigerator replacements for		
80		85	
	remity housing		
85			
	Renewables	anta ta Angelanta (b. 1947). Mangelanta	
85		70 <sup>a</sup>	
		94	
90		98	
	· · ·		
77.5		90	
72.5		90	
85	Solarwall	98.5	
		· · · · · · · · · · · · · · · · · · ·	
65			
65			
75			
65			
	Utilities		
70 <sup>a</sup>	Heating distribution repair	50	
90	Manhole sump pump repair	50	
82.5	EMCS	65	
	Cool storage	90	
45	-		
	greater than 100 tons	100	
	80 85 85 85 90 77.5 72.5 85 65 65 75 65 70 <sup>a</sup> 90 82.5 70 <sup>a</sup>	85Showerhead flow restrictors82.5Faucet flow restrictors95Desuperheaters67.5Hot water heat pump77.5Instantaneous hot water heaters70 <sup>a</sup> Miscellaneous80Refrigerator replacements for family housing85Renewables85Wind energy85Microclimate modifications90Solar powered street lights90Solar water heating for family housing72.5Solar water heating for barracks85Solarwall6565756570 <sup>a</sup> Heating distribution repair90Manhole sump pump repair82.5EMCS70 <sup>a</sup> Cool storage45Direct-fired gas fired chillers greater than 100 tons	

# Table 3-2. REEP ECO Survey Results

<sup>a</sup>Denotes no survey estimate was available, so default value of 70 percent was utilized.

(5) Table 3-2 verifies that all of the REEP ECO are commercially available. This is shown by the remaining economic potential percentages, where all ECO except direct-fired gas fired chillers have had some prior investment and installation. This notion of partial ECO penetration runs counter to the prevailing belief in some segments of the Army community. Some believe that most ECO opportunities throughout the Army have already been thoroughly exploited. Table 3-2 shows that based on survey estimates, the majority of ECO have remaining economic potential percentages in the 70-98 percent range.

(6) The category type ranking highest with respect to remaining economic potential were the renewable ECO. All renewable ECO, except for wind energy, had remaining economic potential estimates in the 90 percent or greater range. It can be speculated that wind energy would also have had a high estimate, but it was one of the ECO not included in the survey. Closer scrutiny of survey taker responses shows that the variation of estimates for renewable ECO was very tight. The difference between the lowest and highest remaining economic potential estimate for all renewable ECO did not exceed 10 percentage points. This implies a high level of confidence in the renewable ECO estimates, since the responses of the Army energy experts tended to converge.

(7) Three ECO had exceptionally low variation in their penetration estimates. They were desuperheaters (water ECO), microclimate modifications (renewable ECO), and occupancy sensors (lighting ECO). The difference between the lowest and highest remaining economic potential estimate for any of these three were less than or equal to 4 percentage points. This suggests a high degree of convergence amongst the survey takers.

(8) Four of the ECO had extremely high variation in their penetration estimates. They were flue dampers/electronic ignition (heating and cooling ECO), heating distribution repair (utility ECO), nominal efficiency furnaces for family housing (heating and cooling ECO), and programmable thermostats for family housing (heating and cooling ECO). The difference between the lowest and highest penetration estimate was 90 percentage points or higher. This suggests no convergence among the survey takers for these ECO.

**3-3. IDENTIFY AND DESCRIBE SOURCES OF FINANCE (TASK 2).** This task identified and described Department of Defense (DOD) programs and types of non-DOD institutions that could finance ECO investment in the Army. Each of these funding sources is described further in Appendix F. An example of a description of a funding source, Energy Conservation Investment Program (ECIP), is depicted in Figure 3-3. These descriptions were based upon information obtained during the course of this study. However, the terms and conditions of these funding sources may change in the future.

a. As indicated in Chapter 2, one of the principal objectives of this task was to estimate the annual budgets (by either program or appropriation) that would be available for ECO acquisition. Since this information was not available during the study, total annual budgets for all the ECO were developed based on policy established in EPACT and its 10 year payback 2005 procurement requirement. The method used to estimate the annual budgets required to meet this requirement for the ECO identified at the 49 sites was annualized between FY 1994 and FY 2005. Thus, the budgets calculated using this approach increased during the study period as more ECO were identified. The results of these calculations are addressed in Paragraph 3-5.

Description	Conditions
Military construction funded program used	- Projects greater than or equal to
to improve the energy efficiency of existing	\$300,000
Defense Department facilities while reducing	
the associated utility energy and nonenergy	- Savings to investment ratio greater
related costs. Reduces energy use through	than 1.25
construction of new, high efficiency energy	
systems, buildings or facilities for which a	- Payback less than 10 years
defense component pays for the facilities	
energy.	- Military Construction, Army, dollars
- Energy monitoring and control systems/	
heating, ventilation, air conditioning	- Energy retrofit projects only
(HVAC) controls	
- Steam/condensate systems - Boiler plan modifications	
- HVAC	
- Weatherization	
- Lighting systems	
- Energy recovery system	
- Electrical energy systems	1
- Renewable energy systems	
- Facility energy improvements	

Figure 3–3. Energy Conservation Investment Program (ECIP)

**b.** Two sources of funds outside the government that could help support investment in Army ECO are demand side management (DSM) programs and energy savings performance contracts. Utility DSM programs offer a range of incentives (including cash rebates) for customers to invest in energy efficiency and conservation measures. Energy savings performance contracts are arrangements between the government and a contractor whereby the contractor provides resources for implementing energy cost savings measures and in turn receives a portion of the actual energy cost savings that accrue to the government. The Energy Efficiency Resource Directory: A Guide to Utility Programs provides a review of DSM programs offered by utilities in the US. Information about ECO rebates (one of the principal DSM methods) in this report were of particular interest since they can be quantified and thus can be considered in the development and evaluation of ECO investment strategies. For example, if a utility is offering energy efficient lighting rebates, then customers who purchase these items receive a check or a credit on their utility bill for an amount prescribed by the program. Utilities offering ECO rebates in service areas that included the 49 US Army sites were contacted to collect information and gain insights about their rebate programs. ECO rebates from utilities are clearly a promising source of financial support and should be used whenever possible. The scope and characteristics of utility rebate programs (available as of when the utilities were contacted) that could financially benefit ECO investment in the Army are presented in Appendix F. The data provided on these programs are subject to change at the discretion of the utility.

c. EPACT encourages Federal agencies to use energy savings performance contracts (formerly referred to as shared energy savings) as a source of ECO finance. Several Army installations involved with shared energy savings contracts were identified and asked about their experiences. This research produced considerable information regarding the positive aspects of using shared energy saving to finance ECO investment. However, many more problems were raised. The key strengths and weaknesses of shared energy savings for ECO investment that were identified by the installations are discussed in Appendix F. For example, the most common problem identified was that it took too long (up to 2 years) to negotiate and implement shared energy savings contracts. These types of obstacles are apparently common across most Federal agencies, and as a result, the Department of Energy (DOE) is standardizing and streamlining the process of facilitating energy performance contracting in the Federal government. Although there is significant potential for using energy savings performance contracts in the Army, many of the obstacles raised by the installations need to be overcome.

#### **3-4. BUILD AND TEST THE REEP INVESTMENT MODEL (RIM) (TASK 3)**

a. This task involved designing, building, and testing a multiobjective linear programming model--RIM. The model maximizes cost, energy, and load savings and pollutant reduction for individual or combinations of renewable and conservation investments, while explicitly considering budget constraints, energy and environmental goals, and economies of scale.

**b.** RIM develops and analyzes optimal renewable energy and energy efficiency investment strategies at US Army facilities on an annual basis (i.e., what to buy, how many, where, and when). RIM incorporates a multiobjective linear programming approach in order to quickly assimilate, analyze, and summarize the large volume of data needed for evaluating a range of energy efficiency measures among many geographically and institutionally disparate Army sites and facilities. The RIM mathematical programming approach used to evaluate the impacts of a large number of decision variables was ideally suited for producing the detailed results needed to formulate investment strategies. RIM was structured to determine the optimum ECO and site-specific investment strategy for maximizing any one or combination of the four possible alternative objective functions listed in Figure 3-4.

Model objective functions:	Maximize energy savings     Maximize demand savings     Maximize cost savings
	<ul> <li>Maximize cost savings</li> <li>Maximize pollutant reductions</li> </ul>

#### Figure 3–4. RIM Objective Functions

c. The four objective functions defined for application in RIM expressed key energy and environmental goals established by Army policy. RIM is capable of applying objective functions singularly or in combinations during processing. Depending upon policy and decisionmaking needs, a single or weighted grouping of objective functions is applied to govern development of investment strategies for maximizing the designated objective functions. While optimizing the selected objective functions, RIM calculates the impacts for each of the four objective functions (those selected for optimization and those not selected). RIM output specified the ECO/site-specific economic and environmental impacts of implementing ECO measures and the total impacts for implementing all measures across all sites. The results of the two applications presented in this chapter are based solely on maximize cost savings runs.

**d.** When two or more objectives are considered in a study, they can be applied sequentially or weighted in a multiple objective function.

(1) Applying two objectives sequentially involves two optimization runs. In the first run, the objective chosen as primary is optimized. Then a constraint is added to the model that maintains the primary objective value achieved in the first run. The secondary objective is optimized in a run which must satisfy this constraint. In the case of more than two objectives this process can be continued where each run must maintain the objective values achieved in the previous runs.

(2) Using a multiple objective function involves just one optimization run regardless of the number of component objectives involved. Each component objective is multiplied by a constant (weighted), then the sum is formed of the modified components to obtain the multiple objective function. This sum being a linear combination of linear objectives is, of course, itself linear.

(3) In general, it is not a routine process to determine whether and how to use sequential or weighted objectives. The resolution of these issues depends on context and on perceptions of the problems. It may involve substantial discussions between decisionmakers and analysts.

(4) The REESIN QRA Report discusses optimizations where both the cost savings and the pollutant reduction objectives were applied in a multiple objective function. The component objective functions used--Maximize Cost Savings and Maximize Pollutant Reduction--were weighted equally. More specifically, in the optimization process saving \$1,000 is considered (for analysis purposes) as important as emitting one less short ton (STON) of pollutant. Single objective cost savings and single objective pollutant reduction runs were also conducted. The results of the three runs were consistent, in that cost savings, for example, were smallest in the maximize pollutant reduction case, increased some in the multiple objective optimization, and were largest in the run where the single objective was to maximize cost savings. The cost savings values of the two extreme cases (the single objective runs) gave sensitivity information on the influence of weights on cost savings results.

e. RIM imposed budgetary constraints and the quantity or amount of ECO remaining for potential investment (expressed as equations) during processing. The investment budget constraint limited the total number of dollars which could be used to acquire ECO. The second constraint limited the model's implementation of ECO measures to the total number of opportunities remaining at any point during the model run. Within these defined parameters, the model was free to calculate and develop the ECO site implementation sequencing plan which maximized the selected objective function(s).

f. Standard Data Inputs for Developing REEP Investment Strategy. Figure 3-5 identifies the standard set of selected ECO data which were derived and input into RIM to produce investment strategies under alternative study scenarios. Model logic fields were designated (expressed as equations) to reflect the objective functions to be applied during the model run. Assumed budget constraints were entered, as appropriate.

DATA	- I titial cost of a 1% investment in ECO
	- Annual energy savings resulting from a 1% investment in an ECO
	- Annual demand savings resulting from a 1% investment in an ECO
	- Annual cost savings of a 1% investment in an ECO - Annual environmental savings resulting from a 1%
	investment in an ECO - Percentage of eco, omic potential remaining
LOGIC (EQUATIONS)	- Budget constraint: (enter fiscal budget amounts)
	- Objective functions (select from four options)

g. Standard Data Outputs Identifying Investment Strategy. Figure 3-6 identifies the standard set of data which were calculated and produced by the model for each ECO and site included in the run. Collectively, these data outputs comprise a comprehensive and detailed strategy for investing in all ECO (specified for appropriate building categories) at all sites in the precise order which maximized the selected objective function(s). A sample illustration of model output is included at Appendix E.

-	Percent	investment	by ECO and site
			townships and assume has BOO and when

- Percent cumulative investment start by ECO and site
  Annual implementation costs by ECO and site
  Annual energy savings by ECO and site

- Annual demand savings by ECO and site Annual cost savings by ECO and site
- Annual environmental savings by ECO and site

Figure 3–6. Standard Data Output from RIM

#### **3-5. DEVELOP AND EVALUATE INVESTMENT STRATEGY (TASK 4)**

#### a. General

(1) This task involved completing and testing the REEP analytical methodology and applying this to produce Army energy investment strategies for selected objective functions, energy and environmental policies/goals, and budget constraints. REEP investment strategies were formulated to present detailed site and ECO-specific acquisition plans (i.e., what to buy, how many, where, and when) and the macro, as well as the detailed, economic and environmental impacts of implementing ECO. In accomplishing this task, detailed sitespecific ECO data and representative energy program scenarios (derived from energy policy and sponsor study requirements) were used in conducting RIM runs to produce energy investment strategies. Model outputs were downloaded to a Microsoft EXCEL spreadsheet program and the results summarized to illustrate generated investment strategies.

(2) The REEP methodology was applied to various stages of the development and testing process in order to produce successively more comprehensive investment strategies, evaluate and enhance the operation of RIM, and refine the methodology. During the course of the study, two principal applications of REEP were requested by the study sponsors. The analysis and results of these two issues are presented in this paragraph. The two issues raised were:

(a) What should the investment strategy be for a sample of 16 ECO (with paybacks of 10 years or less) at US Army facilities in CONUS that maximizes cost savings and can be implemented completely by FY 2005?

(b) What should the investment strategy be for 47 ECO (with paybacks of 10 years or less) specified at US Army facilities in CONUS that maximizes cost sayings and can be implemented completely by FY 2005? The last issue served as a "base case," since it considered the total number of economically feasible ECO identified in the REEP Study and is in accordance with EPACT and Army energy policy.

(3) The REEP methodology was also applied in the REESIN QRA which was performed for the Assistant Secretary of the Army for Installations, Logistics, and Environment (ASAILE). In support of the National Performance Review (NPR), the REESIN QRA identified energy conservation opportunities and strategy for their investment that maximize cost savings and pollutant reduction at US Army facilities. The REESIN QRA is documented in a separate report.

(4) Developing an ECO investment strategy that meets the EPACT mandated goal of decreasing energy usage per square foot by 20 percent between 1985 and 2000 was not requested as an application of the REEP methodology. This was due to: (1) the Army being already close to meeting this requirement; and (2) preliminary runs showed that the 10-year payback requirement significantly dominated the energy efficiency improvement requirement of 20 percent. Therefore, RIM applications that were requested by the study sponsors focused on the EPACT 10-year payback requirement.

**b.** Demonstration of the REEP Methodology in Support of the DOD/DOE EPACT Review. A demonstration of the REEP methodology was prepared and presented in support of the DOD/DOE EPACT review conducted in April 1993. The purpose of this demonstration was to illustrate the capability of the emerging REEP methodology to respond to the analytical, planning, and decisionmaking requirements posed by enactment of EPACT. With development still ongoing, the methodology had progressed sufficiently to illustrate its utility for addressing EPACT requirements. Essential data processing features of RIM were operational, and a representative range of ECO data had been provided by CERL and prepared for evaluation by RIM.

(1) The basic approach used was to develop the example application of the methodology using 16 ECO, all 49 study sites (representing about 75 percent of energy consumption at Army facilities in CONUS), the EPACT provision requiring all ECO paybacks of 10 years or less to be implemented at Federal facilities by 2005, and the provision of EPACT to undertake ECO investments that maximize cost savings. (Note: the FY 2005 EPACT payback requirement was considered in all subsequent applications of the methodology.) Two variations of this approach, one assuming no rollover of cost savings and one assuming a 50 percent rollover of cost savings, were used. EPACT includes a provision for Federal agencies that one-half of the cost savings generated by an ECO should be "rolled over" or reinvested in additional ECO. The rollover variation assumed that one-half of the cost savings resulting from ECO implementation would be made available the year following the year in which the cost savings occur. ECO investments using cost savings from rollover funds were in addition to calculated annual investment budget amounts.

(2) The 16 ECO (Figure 3-7) considered in the example application were in four categories representing a variety of end uses and ECO operating characteristics. Each ECO had a 10-year payback or less at one or more of the 49 sites. The 49 sites presented a wide range of facility types, prevailing climatic conditions, and servicing utility companies. The 12-year time span (FY 1994-FY 2005) used to coincide with the EPACT requirement, illustrated RIM's capability to address large volumes of complex data over long program and planning horizons.

(3) The specific problem addressed in the example application was, "What should the investment strategy be for a sample of 16 specified ECO (with paybacks  $\leq$  10 years) at CONUS Army facilities that both maximizes cost savings and is implemented completely by FY 2005?" Key assumptions and parameters used for the example application were:

- Address 49 sites with annual utility bill > \$5 million
- Army program/budget for ECO acquisition is \$32.9 million annually for FY 94-FY 05
- No rollover of cost savings (a "what if" variation was conducted using one-half rollover of cost savings)
- Analysis considers only appropriated total obligational authority (TOA); no performance contracts or rebates/special rates
- No economies of scale
- Opportunities reported by CERL for implementing ECO were as adjusted by market penetration surveys

CAA-SR-93-7

• Analysis does not address synergistic effects

• All dollars are expressed as FY 93 constant dollars

Category	ECO
Lighting	Install occupancy sensors Replace/relamp exit signs
	Replace incandescent lamps with compact fluorescent Install T8 lamps and electronic ballasts
Heating/Cooling	Thermal water storage for load management Install high efficiency gas furnaces in family housing Install modular boilers Install programmable thermostats in family housing Small ventilation motor retrofit Medium ventilation motor retrofit (10 – 20 HP) Large ventilation motor retrofit (>20 HP)
Envelop	Insulate FH walls with blown-in rockwool Install window solar film Insulate above tile ceilings with 6 inches insulation High reflectance roof membrane
Water	Insulate domestic hot water tanks

Figure 3–7. 16 ECO Considered in Example Application

(4) The investment cost (with no rollovers) of complying with the EPACT requirement for the 16 ECO at the 49 sites was annualized between FY 1994 and FY 2005, resulting in 12 equal annual budgets of \$32.9M. Based upon these budgets, RIM was used to generate a detailed investment strategy for acquiring all ECO at all sites by 2005. The pattern of the ECO acquisition strategy generated by the model is graphically depicted in Figures 3-8a and 3-8b. Two graphs were needed to accommodate the difference in how individual ECO were measured (i.e., some ECO were measured as item quantities and others were measured in terms of square feet). The results shown in Figure 3-8b are categorized into 4 groups for graphical clarity purposes.

(5) Three key observations were made from these results. First, that ECO performance varies significantly from site to site. That is, once it has been determined that an ECO will pay back in 10 years or less, its performance at each individual site becomes one of the key factors for evaluation by RIM. ECO performance variations among the sites were, in most part, attributable to regional climatology, rates charged by servicing utilities, types of fuel used by servicing utilities to generate electricity, and types of buildings at the sites. The net result of these factors was that most ECO were shown to have wide-ranging cost savings performance across the various study sites. None of the ECO were shown to be the top cost savings performer for all sites.

(6) Secondly, only 2 of the 16 ECO (compact fluorescent lighting and insulating hot water tanks) showed superior cost savings performance across most sites and were almost fully acquired in the initial program years. Patterns for several other ECO show that they were acquired early at several sites, but delayed substantially at those sites where cost savings were comparatively at the lower end of the cost savings range.

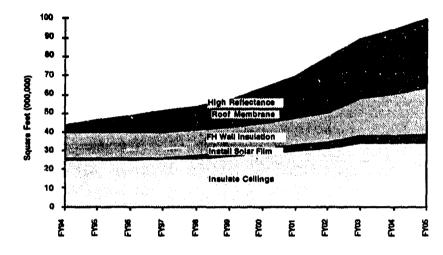


Figure 3-8a. Acquisition Pattern for 16 ECO---No Rollover

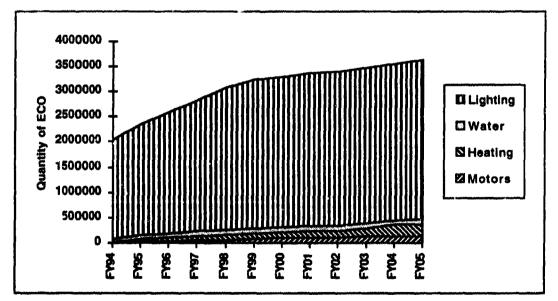


Figure 3-8b. Acquisition Pattern for 16 ECO (Expressed in 4 Categories)--No Rollover

(7) And lastly, the results showed that RIM considered the relative investment cost in comparison to the cost savings associated with an ECO. Of the site, ECO combinations available, RIM always acquired the ones with the greatest cost savings for invested dollar.

(8) Figure 3-9 summarizes selected model results for the example application. Results have been summarized to show the impacts of implementing the 16 ECO over the study period, FY 1994 through FY 2005, under an investment strategy which maximizes cost savings. A cost savings of \$1.1 billion was generated over the study period from a total investment of \$395 million. This was a return of \$2.78 for each dollar invested over the study period. This cost savings impact would be \$2.1 billion if measured over the useful life of ECO rather than limited to the study period. This represents a return of \$5.31 for each invested dollar. RIM also determined the immediate impacts of ECO acquisition on energy and demand savings and pollutant reduction.

Investment costs: \$395 million (FY 1993 dollars)					
All investment is made from calculated Army budgets					
Cost savings	\$1.1 Billion				
Energy savings	15.7 Million Mbtu				
Demand savings	4.18 Million kilowatts				
Pollutant reduction	7.82 Million short tons				

Figure 3-9. Selected Output for 16 ECO With No Rollover (FY 1994-FY 2005)

(9) A variation of the analysis was conducted and presented to illustrate the flexibility of RIM to accommodate changes in policy and scenario assumptions and to highlight the impact of an ECO cost savings rollover policy. This variation assumed that, in addition to the annual investment budget amount of \$32.9M, one-half of the cost savings generated by ECO implementation would be retained for investment in additional ECO. ECO acquisition strategies (with rollover effects) generated are graphically depicted in Figures 3–10a and 3-10b. A major impact of cost savings rollover was that, given annual budgets of \$32.9 million, all ECO were acquired by FY 2000. That is, the EPACT requirement for 2005 was met 5 years earlier than mandated without increasing the budgets.

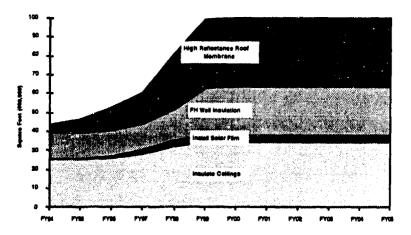


Figure 3–10a. Acquisition Pattern for 16 ECO-50 Percent Rollover (FY 94-FY 05)

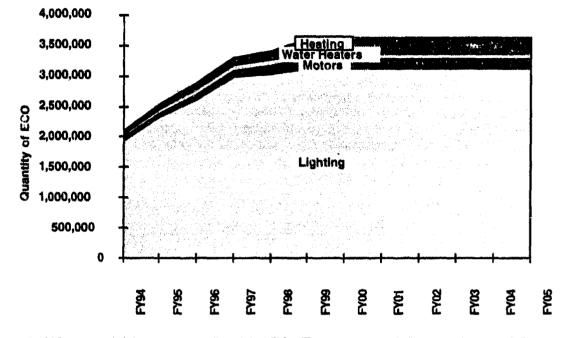


Figure 3-10b. Acquisition Pattern for 16 ECO (Expressed in 4 Categories)---50 Percent Rollover (FY 94-FY 05)

(10) Table 3-3 compares the overall results of the no rollover and rollover runs. Results have been summarized to show the impacts of implementing the 16 ECO over the study period, FY 1994 through FY 2005, under an investment strategy which maximizes cost savings. A cost savings of \$1.27 billion was generated in the rollover case, or \$170 million more than with no rollover. Since one-half of this amount, or \$85 million, was used to augment the assumed investment budget, the model acquired more ECO earlier, resulting in greater overall cost savings. While the total ECO investment cost was \$395 million in each case, only \$172.3 million was provided from budgeted investment funds in the rollover case. The balance of the total acquisition cost, \$222.7 million, was funded through rollover funds. Investing in the 16 ECO provided a return of \$7.31 (over the study period) for each budget and plus rollover) invested. As with the no rollover case, impacts of the rollover variation would be substantially higher if calculated over the useful life of ECO rather than limited to the study period. The \$2.1 billion savings generated over the useful lives of the ECO equates to a return of \$12.19 for each budgeted dollar invested and \$5.32 for each total dollar invested.

 Table 3-3. Comparative Results for 16 ECO-No Rollover versus 50 Percent Rollover

 (FY 94-FY 05)

	With 50% rollover	No rollover
Cost savings (FY 93 \$)	\$ 1,270,000,000	\$ 1.100,000,000
Energy savings (Mbtu)	25,083,000	15,715,000
Demand savings (kW)	5,220,000	4,180,000
Pollutant reduction (STON)	9,310,000	7,820,000

# c. Base Case Application of the REEP Methodology

(1) The investment strategy formulation portion of the REEP Sudy effort culminated in the development of a base case application of the methodology. This application addressed all ECO developed and evaluated by CERL for the study which had a payback 10 years or less at one or more of the study sites. The 47 ECO that met the payback criterion are identified in Figure 3-11. The key assumptions and parameters applied in the base case are listed in Figure 3-12. The same method used to calculate the annual budget requirements in the DOE/DOD EPACT application was applied here. The calculated annual investment budget was increased to \$87.9 million to cover the cost of the additional 31 ECO. The Army policy requiring one-third of ECO cost savings to be rolled over into additional ECO (which had been recently reevaluated and affirmed by Headquarters, Department of the Army (HQDA)) was applied in the development of the investment strategy. The number of opportunities remaining to implement ECO were adjusted, as necessary, to reflect the results of the second market penetration survey. The results of the second survey are shown in Table 3-2. The base case applied the objective function of maximizing cost savings per EPACT guidance.

(2) The enormity and complexity of the base case problem to be solved in RIM is reflected by the characteristics of the optimization matrix as shown in Figure 3-13. The additional ECO had geometrically expanded the size and complexity of the investment strategy problem. This would also occur if additional sites or ECO were added to the analysis. In producing results for the base case, RIM demonstrated its capability as a powerful, flexible analytical support tool.

Lighting	Envelope
2x4 Fluorescent lighting retrofit	Radiant barriers
Compact fluorescent retrofit	High reflectance roof surface
Exit lighting retrofit	Window films
Occupancy sensors	Solar shading devices
Replace mercury vapor with high pressure sodium lamps	Family housing blown-in insulation
Efficient street lighting	6.5 inches of additional ceiling insulation
Constant level lighting	
Electrical	Water
Small ventilation motor retrofit	Water heater insulation blanket
Medium size ventilation motor retrofit	Showerhead flow restrictors
Large size ventilation motor retrofit	Faucet flow restrictors
Small ventilation motor retrofit with adjustable speed drive	Desuperheaters
Medium ventilation motor retrofit with adjustable speed drive	Hot water heat pump
Large ventilation motor retrofit with adjustable speed drive	Instantaneous hot water heaters
Heating/cooling	Utilities
Pulse combustion/modular boiler	Heating distribution repair
Single loop digital control panels	Manhole sump pump repair
Ventilation heat recovery	Cool storage
Programmable thermostats in family housing	Direct-fired gas fired chillers greater than 100 tons
Seal duct leaks	Energy management control system
High efficiency gas furnaces for family housing	
Gas engine driven heat pumps for family housing	Renewables
Nominal efficiency furnaces for family housing	Solar water heating for family housing
Flue dampers/electronic ignition	Wind energy
High SEER/air conditioning units	Microclimate modifications
- <b>-</b>	Solar powered street lights
Miscellaneous	Solarwali
Refrigerator replacements for family housing	Solar water heating for barracks

Figure 3-11.	ECO	Considered	in Base	Case A	Application
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- Addresses 49 Army sites with annual utility bill greater than \$5 million.
- Army program/budget input is \$87.9 million annually for FY 1994 2005.
- One-third of the cost savings are "rolled over" for additional ECO investment.
- Analysis considers only total obligation al authority; no performance contracts or rebates/special rates.
- Considers ECO at installations where there will be a payback less than or equal 10 years.
- No ECO economies of scale.
- Fuel prices increase at the same rate as inflation.
- Analysis does not address synergistic effects.



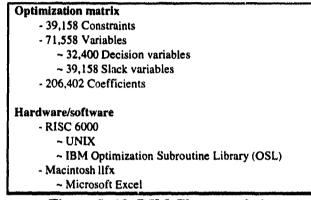


Figure 3–13. RIM Characteristics

(3) The overall investment strategy produced by the model for the base case showed that 4 of the 47 ECO (shower and faucet water flow restrictors, manhole sump repairs, and heating distribution repairs) had exceptional cost savings performance at all sites and were fully acquired by the model in the first year (FY 94). Six others showed markedly superior cost savings performance at most sites. Two of these (water heater blankets and seal duct leaks) were fully acquired by the second year, and four more (compact fluorescent lights, exit lights, programmable thermostats, and microclimate modifications) were 90 percent procured by the third year. The strategy generally delayed the acquisition of four ECO (high efficiency AC units for family housing, wind energy, solar water heating for barracks, and small variable speed drives) in favor of other ECO since the model determined that they were comparatively less attractive cost savers. The model produced a widely dispersed acquisition strategy for the remaining 33 ECO. This was attributable to the wide variation in ECO cost savings performance among the sites.

(4) Impacts of the base case investment strategy for the study period and the useful life of the ECO are summarized in Table 3-4. Applying annual investment budgets of \$87.9 million and one-third cost savings rollover, all 47 ECO were fully acquired by FY 2001 at a total cost of \$1.1 billion. Breakout of ECO investment funding sources used in the model was: \$684 million from annual Army investment budgets; and \$371 million from the onethird cost savings rollover policy.

	Maximize cost savings case FY 1994 – 2005	Life cycle impacts
Investment cost		
Programmed	\$ 683,867,000	\$ 683,867,000
From rollover	\$ 371,477,000	\$ 371,477,000
Total	\$ 1,055,344,000	\$ 1,055,344,000
Cost savings	\$ 2,361,772,000	\$ 4,262,166,000
Pollutant Reduction (short tons)	22,230,343	40,925,531
Energy savings (Mbtu)	151,462,000	287,401,000
Demand savings (kW)	6,710,926	12,569,319

Table 3-4. Base Case	e StrategyResults	for Study Period	versus System Life
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(5) The base case strategy produced a cost savings of \$2.4 billion over the 12-year period of analysis and \$4.3 billion over the useful lives of the ECO (which normally were between 15 and 20 years). For each budget dollar the model invested in ECO, results show a return of \$3.45 over the study period and \$6.23 over the life cycles of the ECO. For each total dollar invested, results show a \$2.24 return over the study period and \$4.04 over the useful lives of the ECO. When measured over the useful lives of the ECO, energy and electrical demand savings and pollution reduction are shown to be approximately double those same impacts over the study period. Maximum annual cost savings of \$249 million are generated by FY 2002. Under current Army policies, the disposition of these annual savings would be as follows: one-third retained by the installations producing the savings for investment in quality of life resources (which could be additional ECO); one-third for investment in new ECO at the installations; and one-third to be returned to the US Treasury.

(6) One of the goals of EPACT is to reduce US oil imports (which has also been a longstanding goal of the Federal government as well). Based on data from CERL, approximately 19 percent of the annual energy savings produced by the ECO is attributable to reduced oil usage at Army facilities and servicing electric utilities (which use oil as a primary fuel source to produce electricity). Applying this percentage to the annual energy savings of 16,823,804 Mbtu generated from the 47 ECO at the 49 CONUS sites saves 3,196,523 Mbtu from decreased oil consumption. According to CERL, one barrel of oil can produce about 6.347369 Mbtu. Thus, 503,598 barrels of oil (3,196,523 Mbtu / 6.347369 Mbtu per barrel) would be saved annually if the 47 ECO were implemented at the 49 CONUS sites. Currently about 42 percent of oil products supplied in the US is imported. Therefore as a result of implementing the ECO specified, about 211,511 fewer barrels of oil would need to be imported annually in the US.

**3-6. SUMMARY.** The utility and flexibility of using the REEP methodology for analyzing energy policy and programmatic issues can be characterized by its ability to incorporate changes and improvements in energy/environmental goals, engineering and cost data, analytical tools and scenarios. The study identified 47 economically feasible ECO (all of which are commercially available) at 49 major energy consuming Army sites in CONUS. Economically feasible ECO were characterized by having a payback of 10 years or less. Two surveys conducted during the study indicated that between 70-98 percent of the economic potential for most of these ECOs remains at Army facilities in CONUS. The REEP Investment Model (RIM)-a multiobjective linear investment programming model developed and evaluated optimal renewable energy and energy efficiency strategies at the designated Army CONUS sites on a yearly basis for selected objective functions, budget constraints and energy/environmental policies and goals. Defense and nondefense funding programs were identified and discussed as part of the REEP analysis for ECO acquisition. The two

applications of the REEP methodology show that substantial economic, energy, and environmental benefits would result from analytically based strategies for investment in ECO at US Army facilities. To maintain the integrity of REEP analyses, all data, data bases and models used must be updated and maintained on a regular basis.

## APPENDIX A

## STUDY CONTRIBUTORS

## **1. STUDY TEAM**

### a. Study Director

Mr. Steven B. Siegel, Force Systems Directorate

#### b. Team Members

COL John B. Harrington LTC Andrew Loerch Dr. Robert J. Schwabauer Ms. Vas I. Mantzouranis Mr. Mark T. Clements Mr. Duane E. Gory Ms. Dana G. Unkle

## c. External Team Members

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## d. Other Contributors

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## 2. PRODUCT REVIEW BOARD

Mr. Ronald J. Iekel, Chairman MAJ Kern Wilson Mr. Raymond McDowall

## **3. EXTERNAL CONTRIBUTORS**

Mr. Gary Schanche, CERL Mr. David Joncich, CERL MAJ Lawrence Haller, LEA MAJ Susan McDonald. LEA Mr. Grant Keath, LEA Ms. Fern Gaffey, LEA Mr. Robert Starling, Corps of Engineers, Huntsville Division

Mr. Plyler McManus, Corps of Engineers, Huntsville Division Mr. Arkie Fanning, Corps of Engineers, Huntsville Division Ms. Linda Murray, Corps of Engineers, Huntsville Division Mr. William Christner, EHSC Mr. Satish Sharma, EHSC Mr. Bernie Wasserman, EHSC Mr. Lou Keller, EHSC Mr. James Donnelly, EHSC Mr. Hank Gignilliat, EHSC Mr. Harry Goradia, EHSC Mr. William Stein, The Army Energy Office

Mr. James Woods, GSA

Mr. James Wolfe, The Alliance to Save Energy

Mr. Mark Hopkins, The Alliance to Save Energy

Mr. Douglas Dahle, DON

### **APPENDIX B**

#### **STUDY DIRECTIVE**



DEPARTMENT OF THE ARMY OFFICE OF THE CHIEF OF ENGINEERS WASHINGTON, D.C. 20310-2000

REPLY TO ATTENTION OF:

0 1 JUN 1992

CEHSC-FU-M

MEMORANDUM FOR Director, U.S. Army Concepts Analysis Agency, ATTN: CSCA-FSR, 8120 Woodmont Avenue, Bethesda, Maryland 20814-2797

SUBJECT: Renewables and Energy Efficiency Planning (REEP) - Study Directive

1. PURPOSE OF STUDY DIRECTIVE. This directive tasks the U.S. Army Concepts Analysis Agency (CAA) to develop and apply an analytical methodology for evaluating the economic potential for investment in energy efficiency and renewable energy in Army facilities.

2. STUDY TITLE. Renewable and Energy Efficiency Planning (REEP).

3. BACKGROUND. The Army requires a quick turnaround decision support capability that can evaluate renewable energy and energy efficiency investment issues. The requirement for this capability is based upon the increasingly complex nature of analyzing the potential for renewable energy and energy efficiency in the Army when considering factors, such as energy system costs and performance, policy requirements, alternative sources of funding, budget constraints, the industrial base, environmental considerations and institutional characteristics. An analytical methodology that can logically incorporate these factors in support of the energy investment decision making process in the Army will be developed and applied in the study.

4. STUDY SPONSOR. The Assistant Chief of Engineers, Department of the Army, and the Associate Chief of Engineers for Strategic Initiatives, U.S. Army Corps of Engineers, are the study sponsors. Mr. John Krajewski, U.S. Army Engineering and Housing Support Center (EHSC) will serve as the sponsor's representative.

5. TERMS OF REFERENCE.

a. Purpose. The purpose of the study is to develop and apply an analytical methodology for evaluating the economic potential for investment in energy efficiency and renewable energy in Army facilities.

0 1 JUN 1992

CEHSC-FU-M SUBJECT: Renewables and Energy Efficiency Planning (REEP) -Study Directive

b. Scope.

(1) Timeframe of analysis: FY 1993-2010.

(2) Analysis will be conducted in two phases. Phase I focuses on FY 1993-1999 and Phase II covers FY 1993-2010.

(3) Army facilities in the U.S. only.

(4) Consider renewable energy and energy efficiency technologies and activities that are in research, development, demonstration, and commercialization phases of their life cycle.

(5) Public and private financial sources.

c. The objectives are:

(1) Estimate the energy and cost savings that could result from economic investment in energy efficiency and renewable energy in Army facilities.

(2) Estimate the costs associated with the economic investment in renewable energy and efficiency in Army facilities.

(3) Identify potential sources of funding for energy efficiency and renewable energy investment in Army facilities.

(4) Develop and evaluate investment strategy alternatives for undertaking economic investment in Army facilities.

6. **RESPONSIBILITIES.** 

a. The study sponsors will:

(1) Provide a study point of contact (POC).

(2) Assist in providing CAA with available data and points of contact as required.

(3) Prepare an analysis of study results IAW AR 5-5, Army Studies and Analyse.

(4) Establish a Study Advisory Group (SAG). Schedule inprocess reviews as required. CEHSC-FU-M () 1 JUN 1992 SUBJECT: Renewables and Energy Efficiency Planning (REEP) -Study Directive

b. The study agency, CAA, will:

(1) Designate a study director and establish a full-time study team.

(2) Establish direct communications with HQDA and other organizations required for the conduct of the study.

(3) Provide in-process reviews as requested and a final study report to the study sponsors.

7. ADMINISTRATION.

a. CAA will provide all administrative support necessary for the conduct of the study.

b. Funds required for TDY will be provided by the study sponsors. (Approximately \$10,000)

c. Milestone Schedule:

Approval of Study Directive1 May 92In-process ReviewsEach 2-3 MonthsPresent Study Results26 Feb 93Phase II30 Apr 93

Publish Final Report 1 Jul 93

d. EHSC in coordination with CAA, will prepare the initial DD Form 1498, Research and Technology Work Unit Summary.

e. CAA will submit the final, approved study report to Defense Technical Information Center (DTIC).

f. CAA will provide study results to the study sponsors as a study report.

3

CEHSC-FU-M SUBJECT: Renewable and Energy Efficiency Planning (REEP) - Study Directive

g. This tasking directive has been coordinated with CAA IAW paragraph 4, AR 10-38, United States Army Concepts Analysis Agency.

FOR THE CHIEF OF ENGINEERS:

SOBKE F.

Major General, USA Assistant Chief of Engineers

ROBERTSON WILLIAM L.

Associate Chief of Engineers Strategic Initiatives

#### APPENDIX C

#### **BIIM**/IOGRAPHY

#### **DEPARTMENT OF THE ARMY**

#### Department of the Army (DA) Publications

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Summary of Energy Efficiency and Renewable Energy Provisions in the Energy Policy Act of 1992 (P.L. 102-486)

United States Code Congressional and Administrative News, 102nd Congress, Second Session, No. 10, Public Laws 102-402 to 102-518, Legislative History: Public Laws 102-379 to 102-429, December, 1992

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### APPENDIX D

### MATHEMATICAL DESCRIPTION OF THE REEP INVESTMENT MODEL

**D-1. INTRODUCTION.** This appendix presents a formal technical description of the core methodology of the REEP Investment Model (RIM). In addition, it contains the equations for the recently implemented prototype methodology involving economies of scale. A sequential use of the objective functions and an example of optional additional constraints are also given. The postprocessing equations, which are found on the spreadsheets, are not presented here as they are never seen by the optimizer. (Many of the postprocessing equations convert percentage results into quantity values and/or take into account the quantity penetration prior to the first model year. See the spreadsheets in Appendix E for examples of the postprocessing equations.)

#### **D-2. INDEX USAGE**

#### a. Upper Limits and Indices

- (1) S Total number of sites.
- (2) s Site index, where  $s = 1, 2, \dots, S$ .
- (3) E Total number of different ECO.
- (4) *e* ECO index, where e = 1, 2, ..., E.
- (5) T Total number of years in the planning period.
- (6) t Planning year index, where t = 1, 2, ..., T.
- (7) *i* Objective function component, where i = 1, 2, 3, 4.

**b.** Note on the Dimensionality of the Study. In the core spreadsheets configuration, the total numbers S, E, and T of sites, ECO, and planning years are respectively 50, 54, and 12. The 12 planning years are from FY 94 through FY 05. The decision variables below are indexed by all three of s, e, and t. Hence there are (50)(54)(12) = 32,400 decision variables. An economies of scale ECO contains an additional (50)(12) decision variables, indexed by s and t, and has 12 binary variables indexed by t.

#### D-3. DATA

#### a. ECO-Specific Data

(1)  $IC_{e}$  Initial cost for a 1 percent replacement of old technology at site s by ECO e.

(2)  $CS_{set}$  Cost savings from a 1 percent replacement of old technology at site s by ECO e in year t. Yearly differences in this element occur in scenarios where energy prices fluctuate differently than the rate of inflation.

(3)  $ES_{se}$  Energy savings from a 1 percent replacement of old technology at site s by ECO e.

(4)  $DS_{se}$  Demand savings from a 1 percent replacement of old technology at site s by ECO e.

(5)  $VS_{se}$  Environmental savings (pollution abated) from a 1 percent replacement of old technology at site s by ECO e.

(6)  $RP_{se}$  Remaining percent investment potential at the start of the planning period at site s of ECO c.

## b. Budget Data

(1)  $BG_t$  Budget for year t.

(2) RO fraction of the previous year's cost savings that can be rolled over to supplement current year's budget.

## c. Objective Function Data

 $W_i$  Weight of objective function component.

#### d. Optional Data Examples

(1) XES Indicates the objective function result from a maximized energy saving optimization to be maintained in a subsequent cost savings maximization. The purpose of the second optimization is to maximize cost savings without lowering the previously achieved energy savings.

(2) AE Minimum fraction of energy saving improvement over energy savings of ECO penetration before planning period. For example, if AE = .5, the additional energy savings for the last planning year (FY 05) is required to be at least 50 percent of that achieved in the year before the planning period (FY 93).

#### e. Economies of Scale Data

(1)  $QU_{se}$  Quantity (e.g., number of items, or of square feet) invested in by a 1 percent replacement of old technology at site s by ECO e.

(2) QR, Quantity investment requirement for ECO e before price reduction.

(3)  $FR_e$  Fraction used to get the reduced cost from the initial cost for ECO e. For example, if the initial cost of a 1 percent implementation of e is \$10,000 and  $FR_e$  is .9, the reduced cost of a 1 percent implementation would \$9,000.

(4)  $TX_e$  Technical "big" number used to prevent premature investment in ECO e at the reduced price. Number must be big enough to avoid restricting lower price buys in year t when binary variable for year t is one in the "Restrict if Zero" constraints below.

## **D-4. DECISION AND BINARY VARIABLES**

**a.**  $X_{set}$  Percent of the total quantity at site s of ECO e invested in during year t. (Total quantity includes the amount invested in the new technology ECO by the start of the planning period.)

**b.**  $Y_{set}$  For ECO with economies of scale data, the percent of the total quantity at site s of ECO e invested in during year t at the higher price.

c.  $Z_{set}$  For ECO with economies of scale data, the percent of the total quantity at site s of ECO e invested in during year t at the reduced price.

**d.**  $BI_{et}$  For ECO with economies of scale data, the binary variable that prevents premature investment at the lower price in ECO e in year t.

### **D-5. CUMULATION EXPRESSIONS**

a. Cumulative Additional Percent Investments. Most of the expressions below involve  $CU_{st}$ , the cumulative additional percent investment at site s in ECO e through year t.

For 
$$s = 1,...,S$$
;  $e = 1,...,E$ ;  
 $CU_{set} = \begin{cases} X_{set} & t = 1 \\ CU_{se(t-1)} + X_{set} & t = 2,...,T. \end{cases}$ 

For economies of scale ECO,  $Y_{set} + Z_{set}$  is used instead of  $X_{set}$  in the definition of  $CU_{set}$ 

**b.** Cumulative Additional Percent Investments at the Higher Price. The constraints in paragraphs D-7c and D-7d(1) below involve  $CV_{set}$ , the cumulative additional percent investment at site s in ECO e through year t at the unreduced price. These expressions pertain to economies of scale ECO.

For 
$$s = 1,...,S$$
;  $e = 1,...,E$ ;  
 $CV_{set} = \begin{cases} Y_{set} & t = 1 \\ CV_{se(t-1)} + Y_{set} & t = 2,...,T \end{cases}$ 

**D–6. OBJECTIVE FUNCTIONS.** The objective function is:

Maximize

$$W_{1}\sum_{i=1}^{T}\sum_{e=1}^{E}\sum_{s=1}^{S}CS_{sel}CU_{sel} + W_{2}\sum_{i=1}^{T}\sum_{e=1}^{E}\sum_{s=1}^{S}ES_{se}CU_{sel} + .$$
$$W_{3}\sum_{i=1}^{T}\sum_{e=1}^{E}\sum_{s=1}^{S}DS_{se}CU_{sel} + W_{4}\sum_{i=1}^{T}\sum_{e=1}^{E}\sum_{s=1}^{S}VS_{se}CU_{sel}$$

Often, in practice, the weights of three of the four components are each zero, so that the objective function is equivalent to one of the following:

a. Maximize Cost Savings

Maximize 
$$\sum_{t=1}^{T} \sum_{e=1}^{E} \sum_{s=1}^{S} CS_{set} CU_{set}$$
.

b. Maximize Energy Savings

Maximize 
$$\sum_{t=1}^{T} \sum_{e=1}^{E} \sum_{s=1}^{S} ES_{se}CU_{set}$$

c. Maximize Demand Savings

Maximize 
$$\sum_{t=1}^{T} \sum_{e=1}^{E} \sum_{s=1}^{S} DS_{se} CU_{set}$$
.

d. Maximize Environmental Savings

Maximize 
$$\sum_{i=1}^{T} \sum_{e=1}^{E} \sum_{s=1}^{S} VS_{se} CU_{sei}$$
.

## **D-7. CONSTRAINTS**

a. Annual Investment Dollar Constraints

$$\sum_{e=1}^{E} \sum_{s=1}^{S} IC_{se} X_{set} \leq \begin{cases} BG_t & t=1\\ BG_t + RO * \sum_{e=1}^{E} \sum_{s=1}^{S} CS_{se(t-1)} CU_{se(t-1)} & t=2,...,T. \end{cases}$$

For economies of scale ECO,  $Y_{set} + FR_e * Z_{set}$ , is used instead of  $X_{set}$  in these constraints.

b. Total Planning Period Investment Limited by Remaining Potential at Start

$$CU_{set} \le RP_{se}$$
 For  $s = 1,...,S$ ;  $e = 1,...,E$ ;  
note  $t = T$  (FY05).

c. Quantity of Investment at Higher Price Limited to Requirement

$$\sum_{s=1}^{S} QU_{se}CV_{seT} \leq QR_{e} \text{ For } e = 1,...,E;$$
  
note  $t = T$  (FY05).

## d. Binary Constraints

(1) "Keep at Zero" Constraints. These expressions force the binary variable for ECO e in year t to 0, if the quantity requirement at the unreduced price has not yet been met.

$$\sum_{s=1}^{S} QU_{se} CV_{set} - (QR_{e} * BI_{et}) \ge 0, \text{ for } e = 1, \dots, E;$$
  
$$t = 1, \dots, T.$$

(2) "Restrict if Zero" Constraints. These expressions prevent buying ECO e at the reduced price in year t, unless the binary variable  $Bl_{et}$  is allowed to assume the value 1 by the "Keep at Zero" constraints above.

$$(TX_e * BI_{et}) - \sum_{s=1}^{S} IC_{se} Z_{set} \ge 0$$
, for  $e = 1, ..., E$ ;  
 $t = 1, ..., T$ .

e. Maintain First Objective. (Example of optional sequential programming to improve a secondary objective function while maintaining the primary objective function value found in the initial optimization.)

$$\sum_{t=1}^{T} \sum_{e=1}^{E} \sum_{s=1}^{S} ES_{se} CU_{set} \geq XES.$$

**f. Minimum Fraction Energy Saving Improvement.** (Example of optional constraint designed to force achieving a predetermined energy savings.)

$$\sum_{e=1}^{E} \sum_{s=1}^{S} ES_{se} CU_{seT} \ge AE * \sum_{e=1}^{E} \sum_{s=1}^{S} ES_{se} (100 - RP_{se}),$$
  
note  $t = T$  (FY05).

#### APPENDIX E

#### SPREADSHEET IMPLEMENTATION OF THE REEP INVESTMENT MODEL (RIM)

**E-1. INTRODUCTION.** This appendix provides examples of the EXCEL 4.0 spreadsheets of RIM. It also indicates some relationships between RIM as mathematically described in Appendix D and the spreadsheet implementation. The core version of RIM resides on 55 spreadsheets. For each of 54 ECO, there is a spreadsheet containing data and logic specific to that ECO. The 55th or main spreadsheet contains links to the other 54 spreadsheets. The first four tables of this appendix display the values view and the formulas view of one of the ECO spreadsheets and of the main spreadsheet of the core version of RIM. The last four tables display the ECO and the main spreadsheet of the economies of scale prototype. Again both the value views and formula views of each spreadsheet are presented. For easier reading, the input data and the decision cells have been set to zero in the formula views. In the values views, the spreadsheets reflect the input and output of cost savings maximizations. Spreadsheets described in the following paragraphs are illustrated in Tables E-1 through E-8 which appear at the end of this appendix.

### **E-2. CORE SPREADSHEETS**

a. Core ECO Spreadsheet (r22F01, Tables E-1 and E-2). The 54 ECO spreadsheets in the current core version of RIM are labeled r22F01, r22F02,...,r22F54. Tables E-1 and E-2 display the values view and the formulas view, respectively, of r22F01.

(1) Data. The data pertaining to a particular ECO (i.e., those indexed by e in Appendix D) such as,

 $IC_{se}$  Initial cost for a 1 percent replacement of old technology at site s by ECO e,

are shown on the ECO spreadsheets. For example, spreadsheet cell B11 of r22F01 shows \$77,239 as the initial cost of a 1 percent replacement of old technology by ECO 1 at site 1.

(2) Decision Variables. Each decision variable pertains to a particular ECO (i.e., is indexed by e in Appendix D) and appears on an ECO spreadsheet.

#### (3) Formulas

(a) Expressions containing variables pertaining to, but not summed over the ECO (i.e., those in Appendix D that contain the phrase, e = 1,...,E), are implemented in formulas or the ECO spreadsheets. One such expression is:

$$CU_{set} = CU_{se(t-1)} + X_{set},$$
  
for  $s = 1,...,S$ ;  $e = 1,...,E$ ;  
 $t = 2,...,T.$ 

It is implemented for e = 1, on the spreadsheet r22F01 in the 50 cells C191, C192,...,C240, for s = 1,...,S=50, and t = 2.

(b) Expressions summed over the ECO (i.e., those in Appendix D that contains a summation,  $\sum_{i=1}^{E}$ , over *e*), such as

Maximize 
$$\sum_{t=1}^{T} \sum_{e=1}^{E} \sum_{s=1}^{S} CS_{set} CU_{set}$$

are implemented in formulas on the main spreadsheet, but obtain partial values from ECO spreadsheets. For example, the above maximization expression obtains the value of

$$\sum_{s=1}^{3} CS_{set}CU_{set}$$
 for e=1, t=1, from cell B482 of r22F01.

**b.** Core Main Spreadsheet (r22LK, Tables E-3 and E-4). The main spreadsheet contains data and logic that pertain to the ECO as a group.

(1) Data. The main spreadsheet contains the data that does not pertain to individual ECO (i.e., those in Appendix D not index by e). For example:

(a)  $BG_t$  Budget for year t.

(b) RO fraction of the previous year's cost savings that can be rolled over to supplement current year's budget.

(c)  $W_i$  Weight of objective function component.

(2) Formulas. Expressions that represent summations across ECO, or that are independent of ECO (i.e., those in Appendix D that do not contain the phrase e = 1, 2, ..., E) are implemented on the main spreadsheet. For example cell, B56 contains the spreadsheet expression of the formula

$$BG_t - \sum_{e=1}^{E} \sum_{s=1}^{S} IC_{se} X_{set}$$
, for  $t = 1$  (FY 94).

The optimization process requires this expression to be non-negative, thus implements the constraint:

$$\sum_{e=1}^{E} \sum_{s=1}^{S} IC_{se} X_{set} \leq BG_{t}, \text{ for } t = 1.$$

The spreadsheet expression of cell B56 uses cell B27 which contains the value of

$$\sum_{e=1}^{E} \sum_{s=1}^{S} IC_{se} X_{set}, \text{ for } t = 1 \text{ (FY 94)}.$$

Cell B27 uses cells B64, B65,...,B117. Each of the cells B64, B65,...,B117 is linked to an ECO spreadsheet and contains the value of

$$\sum_{s=1}^{S} IC_{se} X_{set}, \text{ for } t = 1 \text{ (FY 94) for a fixed ECO.}$$

#### E-3. ECONOMIES OF SCALE SPREADSHEETS

#### a. Economies of Scale ECO Spreadsheet (r91G01, Tables E-5 and E-6)

(1) Data. All the economies of scale data in Appendix D are index by e and thus appear on the ECO spreadsheets. That data is:

(a)  $QU_{\mu}$  Quantity of ECO e available for investment at site s.

(b) QR, Quantity investment requirement for ECO e before price reduction.

(c) FR. Fraction used to get reduced price from initial price for ECO e.

(d)  $TX_e$  Technical "big" number used to prevent premature investment in ECO e at the reduced price.

(2) Decision and Binary Variables. All these variables in Appendix D are indexed by *e* and appear on the ECO spreadsheets.

(3) Formulas. All the economies of scale expressions in Appendix D contain the phrase e = 1, 2, ..., E, and are thus implemented in formulas on the ECO spreadsheets. For example the "Keep at Zero" binary constraints:

$$\sum_{s=1}^{5} QU_{se}Y_{set} - (QR_{e} * BI_{et}), \text{ for } e = 1,...,E;$$
  
$$t = 1,...,T.$$

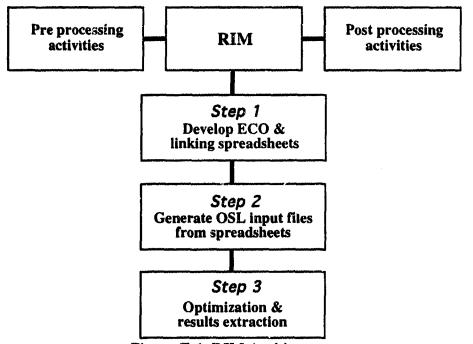
are implemented in cells B245, C245,...,M245 on the ECO spreadsheets.

**b.** Economies of Scale Main Spreadsheet (r91GLK, Tables E-7 and E-8). This prototype spreadsheet, r91GLK, is similar to core main spreadsheet, r22LK, from spreadsheet rows 1 through 64. From rows 65 on in the core spreadsheet, there are more linking cells to the ECO spreadsheets. The prototype contains links to one spreadsheet, whereas the core spreadsheet has links to 54 spreadsheets.

## E-4. OVERVIEW OF RIM SPREADSHEET IMPLEMENTATION

a. This paragraph describes some of the components and operating characteristics of RIM. It is intended to provide an overview of portions of the model's structure. It is not intended to serve as instructional documentation covering all aspects of model construction and operation.

**b.** Figure E-1 is a conceptual depiction of RIM's basic structure. RIM incorporates these three basic sequential processing steps: preprocessing and applying data, optimizing the selected objective function, and post-processing results. RIM processing is accomplished on the Macintosh and RISC computer systems using a combination of standard and CAA developed software programs. The three basic RIM processing steps are briefly described and illustrated below.



**Figure E-1. RIM Architecture** 

(1) Step 1, Figure E-2. This step entailed developing Microsoft EXCEL spreadsheets on the Macintosh computer. "ECO Spreadsheets" were used for ECO specific data and logic. The spreadsheet referred to as the "Linking Spreadsheet" was used for data and logic pertaining to the ECO as a group such as the objective functions and budgetary constraints.

(2) Step 2, Figure E-3. Second step RISC processing used an in-house spreadsheet optimization tool called "Relay" for converting ECO and Linking spreadsheet data and formulas into two Optimization Subroutine Library (OSL) compatible input files (the Index File and Right-hand Side File).

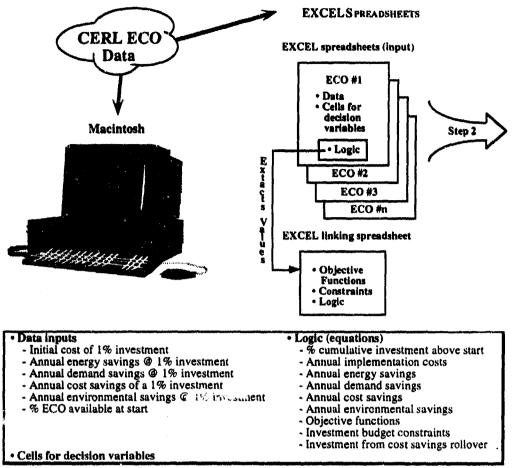


Figure E-2. RIM Processing Step 1-Develop ECO and Linking Spreadsheets

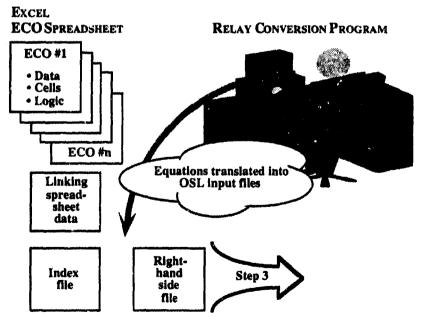


Figure E-3. RIM Processing Step 2-Generate Input Files for the Optimizer

E-4

(3) Step 3, Figure E-4. The OSL Program processes the Relay-developed input files and maximizes the selected objective function. A "C" program and EXCEL macro portion of Relay are used for extracting and transferring OSL decision variable values to the appropriate areas of the ECO spreadsheets.

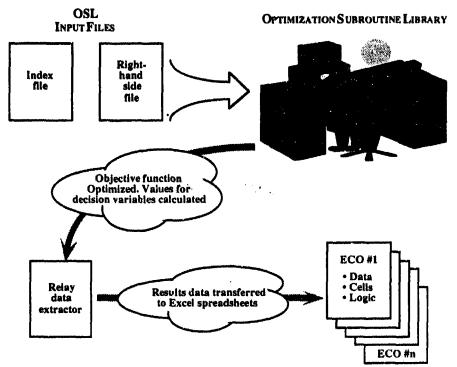


Figure E-4. RIM Processing Step 3—OSL Processing and Extracting Results

## E-5. GENERAL DESCRIPTIONS OF ECO SPREADSHEET DATA AND PROCESSING LOGIC

#### a. General

(1) RIM was structured to determine the optimum ECO and site-specific investment strategy for maximizing any one of four possible alternative objective functions. While optimizing the selected objective function, the model also specifies the resultant values for each of the three alternative objective functions not selected for optimization.

(2) The values of nonselected objective functions are likely sub-optimized as a result of the model's focus on the primary objective function. These nonselected objective functions may be optimized during successive model iterations within a hierarchy of constraints imposed by preceding optimizer results.

(3) RIM output specifies the total as well as the ECO/site-specific economic and environmental impacts of investing in ECO. RIM results represent the optimum Army investment strategy for investing in a range of pre-selected ECOs among several predetermined sites in the manner which maximizes the objective function. **b.** Spreadsheet Proper. A separate ECO spreadsheet program containing site specific ECO performance and cost data, operating logic (equations), and cells for decision variable values was prepared for each ECO evaluated in the Model (47 spreadsheets for the base case run). A sample ECO spreadsheet is illustrated at Table E-1. Descriptions of the specific ECO spreadsheet elements provided below are keyed to the indicated portions of the sample illustration.

- Item # 1, This column identifies Army sites for which data is displayed.
- Item # 2, "Init Cost 1 Percent Invest." Initial (one-time) cost of implementing a 1 percent increment of the designated ECO at the indicated site. This cost is expressed in FY 93 K dollars and is derived from data reported by CERL. The use of 1 percent rather than 100 percent is a data scaling consideration. Current scaling permits a 34.5 percent decision value, for example, to be returned from the optimizer as 34.5 percent.
- Item # 3, "Annual Energy Sav 1 Percent Invest." The annual energy savings resulting from a 1 percent implementation of the specified ECO at the indicated site. Energy savings are expressed as thousands of Mbtu and may be positive or negative according to the ECOs' net overall impact upon facility systems.
- Item # 4, "Annual Demand Sav 1 Percent Invest." The annual kilowatt savings for electrical demand charges resulting from a 1 percent implementation of the specified ECO at the indicated site. The cost of electricity is, in large part, determined by the time of day during which the electricity is consumed. Electricity consumed during the utilities' peak demand hours usually costs significantly more than an equal amount of electricity consumed during off peak hours. Because the rate structures used for determining demand charges are so complex and vary widely among servicing utilities, these annualized demand rates were developed for use in analysis. This data element was reported by CERL.
- Item # 5, "Annual Envir Sav 1 Percent Invest." The annual amount of reduction in atmospheric pollution resulting from a 1 percent implementation of the designated ECO at the indicated site. The amount of atmospheric pollutants abated is expressed as short tons (STONS). Specific pollutants included in this data element are sulfur dioxide (SO2), nitrogen dioxide (NO2), carbon monoxide (CO), carbon dioxide (CO2), particulates, and hydrocarbons. This data element was reported by CERL and converted to a percentage value for model processing.
- Item # 6, "Percent Left from Start." Percent of opportunities remaining to be implemented for the designated ECO measure at the indicated site. This data element excludes that portion of the indicated ECO measure estimated to have already been completed (implemented) at the indicated site at the start of the planning period. This data element was derived by applying the results of CAA market penetration surveys to ECOs provided by CERL.
- Item # 7, "Investment Percent Limit Logic." This item contains constraints that limit the ECO investment to the potential at the start of the planning period.
- Item # 8, "Annual Cost Savings (1 Percent Investment)." The annual operating cost savings resulting from a 1 percent in plementation of the designated ECO at the indicated site for the indicated year. Annual cost avoidance/savings are expressed in FY 93 K dollars. Annual cost avoidance projections represent the total net cost impact which is estimated to occur from a 1 percent investment in the ECO. As appropriate,

this cost data was adjusted during pre-processing analysis to reflect alternative pricing and inflation assumptions (e.g., fuel price increase of 3 percent above the inflation rate).

- Item # 9, "Decision Cells-Percent Investment." Contains the ECO investment decisions generated by the optimizer (OSL) in Step 3. Optimizer investment decisions are shown as an incremental percent (not cumulative) by year at a given site.
- Item # 10, "Cumulative Percent investment above the starting level." Contains the logic for calculating and displaying the cumulative results of implementing annual investment decisions generated by the optimizer in Step 3 and reflected in Item # 9. Values are expressed as a percent of the total number of ECO opportunities at a given site.
- Item # 11, "Annual implementation costs." Cells contain the program logic for calculating and displaying the annual cost in K dollars of implementing optimizer-generated ECO decisions (Item # 9) at designated sites.
- Item # 12, "Annual Energy Savings." Cells contain the program logic for calculating and displaying the annual energy savings resulting from implementing optimizergenerated ECO decisions. Energy savings are displayed in thousands of Mbtu.
- Item # 13, "Annual Demand Savings." Cells contain the program logic for calculating and displaying the annual electrical demand savings resulting from optimizergenerated ECO investment decisions (Item # 9) at designated sites. Electrical demand savings are based on reductions and/or shifts in electrical demand pattern and may not be directly related to amount of energy consumption. Demand savings are expressed in kilowatts (kW) of electricity.
- Item # 14, "Annual Cost Savings." Cells contain the program logic for calculating and displaying the total annual cost savings in K dollars of implementing optimizergenerated ECO investment decisions (Item # 9) at designated sites.
- Item # 15, "Annual Environmental Savings." Cells contain the program logic for calculating and displaying the annual short tonnage of atmospheric pollution reduction resulting from implementing optimizer-generated ECO decisions (Item # 9) at designated sites.

c. Post Processing. Initial data postprocessing is done using a "C" language program and Excel macro to extract and transfer RIM results to areas of the ECO Spreadsheets. This creates the output version of ECO spreadsheets which includes results. These postprocessing data elements are described below as P1 through P7.

- Item # P1, "Data: Quantity Fixtures/Opportunities." This data expresses the total number of ECO at the specified site to include any portion of ECO which may have been previously implemented (as identified by market penetration surveys). This data was provided by CERL.
- Item # P2, "Logic: Percent FY 93 Penetration." This logic element expresses the percent of the total ECOs which have been previously implemented at the specified site and, as such, are not available for implementation in the model simulation. CAA developed this data from market penetration surveys.

- Item # P3, "Logic: Quantity FY 93 Penetration." This logic element expresses the quantity of the ECOs which have been previously implemented at the specified site and, as such, are not available for investment by the model during simulation. This value is the product of the total number of ECOs (P1) and the percent of existing market penetration for that ECO (P2).
- Item # P4, "Cumulative Quantity Penetration Above the FY 93 Penetration." This logic element expresses the annual cumulative quantity of additional ECO investment made by the model during simulation. This value, which reflects model investment decisions, cannot exceed the total number of remaining ECO, (P1 value minus P3 value).
- Item # P5, "Quantity FY 93 Penetration by ECO." This logic element expresses the total quantity of ECOs which have been previously implemented at all sites addressed in the study. This value is the sum of all values appearing in Item # P3.
- Item # P6, "Cumulative Quantity Penetration by ECO Above the FY 93 Penetration." This logic element expresses the total number of additional ECOs implemented annually during model simulation. These values are the annual summation for all values appearing in Item # P4.
- Item # P7, "Cumulative Quantity Penetration by ECO." This logic element expresses the cumulative total number of ECOs (in "eaches") implemented annually to include the amounts for preexisting market penetration and annual model simulated implementation. These values are obtained by adding the amount of preexisting market penetration (Item # P5) to each annual value expressed in Item # P6.

#### E-6. GENERAL DESCRIPTIONS OF MAIN (LINKING) SPREADSHEET DATA AND LOGIC

a. General. The main or linking spreadsheet contains the logic (expressed by equations) for applying the model objective function and for imposing budgetary constraints during processing. This spreadsheet provides the operator/decisionmaker with a centralized method for selecting and uniformly applying objective functions during model processing. It also allows appropriate operating constraints to be set without having to alter the structure, data, and formulas of the individual ECO spreadsheets.

**b.** Spreadsheet Proper. This paragraph discusses the main spreadsheet except for the post processing portion. The descriptions below are numerically keyed to the indicated portions of the spreadsheet sample illustration appearing at Table E-3. Some items involving energy, demand, or environment savings are omitted, when they are similar to described cost savings items.

- Item # 1, "Fraction for Cost Savings Rolled Over." This is the fraction of the dollar cost savings (Item # 6) which will be retained and applied to fund implementation of ECO program measures the following year.
- Item # 2, "Annual Investment Funding Limitations (Budget) in K Dollars." This gives the annual dollar amounts that are programmed and budgeted for ECO implementation.
- Item # 3, "Weights for Objectives." These four data elements give the weights of the four components of the objective function.

- Item # 4, "Multiple Objective Function." This single cell item shows the value of the objective function. (The actual formula contained in the cell is shown in Table E-4.)
- Item # 5, "Total Annual Investment Costs." This logic field expresses the total annual dollar investment amounts in K dollars. The model determines these amounts by summing the annual ECO investments of Item # 10 below.
- Item # 6, "Total Annual Cost Savings." This logic field expresses the total annual cost savings in K dollars which are generated by model implementation of ECO measures. The model determines these amounts by summing the annual cost savings by ECO of Item # 11 below.
- Item # 7, "Grand Total Cost Savings (in K dollars)." This single cell item contains the formula for the sum of the annual cost savings.
- Item # 8, "Annual Budget + Cost Savings Rolled Over from Previous Year." This logic field calculates total annual budgets available for funding ECO measures by adding any assumed rollover of cost savings generated through implementation of ECO measures to the programmed/budgeted amount of Item # 2 above. The model calculates annual rollover amounts by multiplying annual cost savings by the assumed rollover factor of Item # 1. It is important to note that the model only begins to generate cost savings for ECO measures in the year following implementation.
- Item # 9, "Enforcement of Cost Limit (Annual Budget + Previous Year's Cost Savings)." This logic field imposes total annual budget constraints during model simulation to available amounts as shown in Item # 8 and displays any unused annual budget amounts.
- Item # 10, "Total Annual Investment Costs by ECO." This field displays the total annual investment cost for each ECO. The main spreadsheet extracts the data in this field from respective ECO spreadsheets (Table E-1, Item # 11).
- Item # 11. "Total Annual Cost Savings by ECO." This data field displays the total annual cost savings generated for each ECO. The main spreadsheet extracts the data in this field from respective ECO spreadsheets (Table E-1, Item # 8).

e. Post Processing Part. The main spreadsheet elements described below in Items # P1 through P3 concern the post processing of model results. These descriptions are also numerically keyed to the indicated portions of the spreadsheet sample illustration appearing at Table E-3.

- Items # P1. "Cumulative Quantity Penetration by ECO." This logic field expresses the total annual cumulative ECO quantity implemented, including the opportunities invested in before the model planning period.
- Item # P2. "Cumulative Quantity Penetration by ECO Above the FY 93 Penetration." This logic field expresses the total annual cumulative ECO quantity implemented, not including the opportunities invested in before the model planning period.

- Item # P3, "Percent of Final Penetration." The logic field gives the annual cumulative quantity penetration (above the penetration before the planning period) divided by cumulative quantity penetration (above the penetration before the planning period) in FY 05 (the last year of the planning period). This item gives an indication of the rate as which the ECO are implemented.

# E-7. CONCEPTUAL REMARKS ON THE ECONOMY OF SCALE (EofS)

SPREADSHEETS. Table E-5 and Table E-6 contain the value and the formula views respectively of the prototype EofS ECO spreadsheet. This spreadsheet illustrates the modifications necessary to implement an economy of scale methodology where investment costs per item decrease after an initial investment. For example, instead of one set of investment decision cells, the EofS ECO spreadsheet contains two sets. Investment decision cells contain annual percent investments, that is annual investments as a percentage of the total investment opportunities available before the initial implementation of the ECO. In an EofS ECO spreadsheet, one set contains the annual percent investments at the initial higher per item cost. The other set contains the annual percent investments at the lower per item cost. The EofS ECO spreadsheet also contains annual binary variables that prevent investment at the lower cost before fulfilling the quantity investment requirement at the higher cost. The technical details of the mathematical formulation implementing this appear in Appendix D. The EofS main spreadsheet is similar to Core main spreadsheet in that it obtains information from ECO spreadsheets. The value and formula views are given in Tables E-7 and E-8 of the prototype EofS main spreadsheet. It obtains information from just one EofS ECO spreadsheet.

Table E-1.	<b>Core ECO</b>	Spreadsheet	- Valu	e View
	(page 1	of 8 pages)		

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# Table E-1. Core ECO Spreadsheet - Value View<br/>(page 2 of 8 pages)

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	9.89	<b>16267</b>	9.5994287	9.4994287	1.5886227	9.6896287	9.5996287	9.5996287	9.8996267	9.5394287	9.5996217	9.5996287	9.5996287
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11 HONDER		74784 38288		12.078754	12.079754	18,435256	12.078754	12.078784		12.072754		12.0787\$4	12.078754
98 7.000		25064		16.125066	16.128065	16.125065		16.125065		16.125065	16.125065	16.125065	18.1250651
11 LIDING		12994		0.2462994	8.2462954	6.2462984		4.2442994	6.2462994		4.2442994	8.2462994	6.2462994
17 77.388		6172		9.5896172	9.5885172	9.5495172	9.5896172	1.5485172	9.4405172	9.5898172	9.8895172	9.5895172	9.5295172
18 NOTES	10,	40933 6	10.40033	10.40833	10.40833	10.40833	19.40873	10.40833	10.40933	10.40933	10.40933	10.40933	10.40933
1001101.00	13.13	73306		13.173306	13.173306	13.173306	13.173308	13.173300	15.173306	13.173506	•	13,173308	13.173306
1911		31867		1.5831867	1.5531547	1.5831567	1.8631867	1.5031507	1.5531547	1.5831567	1.5831567	1.5531587	1.55315671
102 000 0	1	.8992	1.8992	1.6992	1.8992	1.4992	1.8982	1.6992	1.8892	1.8992	1.8982	1.8992	1.1992
102 708.0	0.2	56301	0.9583391	0.944301	0.856381	0.958291	0.966381	0.968391	0.958391	0.958391	0.958391	0.958391	0.958391
104 1080	* **	0 19143	2.0868843	0	0 2.9 <b>8695</b> 43	0 2.0 <b>800843</b>	0 2.0669843	2.0849843	0 2.0869843	2.0569843	0 2.0865843	0 2.0869843	0
100 000.1		13433		8.923833	6.985433	8.923633	8.923833	6.923833	4.923833	8.923833	8.923833	8.923433	2.0869843(
107 1008		18281			1.5969261		1.9968261		1.9969261			1.9969261	1.9969261
104		6945			1.5816983	1.5814983	1.5814983		1.5816963	1.5816983	1.5816983	1.5816983	1.5816983
10810.00		81049 4 <b>6678</b>			1.4581049	1.4681049	1.6581049	1.4681049		1.6581049		1.6581049	1.6581049
11100 449		19676 29034							0.2246676			0.2246676	0.2246576
112 0000		11564		11.91564	11.91584	11.91564	11.91564	11.91564	11.91564	11.91564	11.91564	11.91564	11.91564
113	23.	H8974	23.48974	23.68974	23.68974	23.68974	23.68974	23.66874	23.68974	23.58974	23.68974	23.68974	23.68974
114 196			21.410949		21.410989	21.410959	21.410888				21.410959		21.410958
118 PECTOR		38978 64154			31.238978 13.604154	31.238978	31.238978	13.604154	31.234078	31.238978 13.604154	31.238978		31.236978
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110 0000		17088		1.427089	1.427059	1.427050	1.427059	1.427059	1.427059	1.427058	1.427059	1.427059	1.427059
11114		1220								13.492234		13.492236	
120 84642			11.637424 F centraine form				11.437484	11.837424	11.637424	11.437424	11.637424	11.837424	11.637424
122			\$41.29185				\$41.29165	541.29185	541.28185	541.29185	541.29165	541.29185	541 29185
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131         SHOD           132         CANNEL           133         CANNEL           134         CANNEL           135         CANNEL           136         P.JOROH           137         P.JOROH           138         P.JOROH           139         LANCH           141         HANCH           142         LANCH           143         MACH           144         LANCH           145         LANCH           146         LANCH           147         LANCH           148         LANCH           149         LANCH           141         LANCH           142         LANCH           143         LANCH           144         LANCH <td< th=""><td></td><td></td><td>0 0 4 4 4 4 4 4 4 5 0 0 4 5 0 0 4 5 0 0 4 5 0 0 0 4 5 0 0 0 0</td><td>45 45 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td>00<b>8</b>0000000000000000000000000000000000</td><td>00000000000000000000000000000000000000</td><td>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td>000000000000000000000000000000000000000</td></td<>			0 0 4 4 4 4 4 4 4 5 0 0 4 5 0 0 4 5 0 0 4 5 0 0 0 4 5 0 0 0 0	45 45 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00 <b>8</b> 0000000000000000000000000000000000	00000000000000000000000000000000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000000000000000000000000000000000000
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131         SNOD           132         CANNEL           133         CANNEL           134         CANNEL           135         CANNEL           136         CANNEL           137         F_JODA           138         F_JODA           139         F_JODA           139         CANNEL           139         F_JODA           139         CANNEL           130         CANNEL           141         Nation           142         P_JODE           143         CANNEL           144         CANNEL           145         CANNEL           146         CANNEL           147         CANNEL           148         CANNEL           149         CANNEL           141         CANNEL           142         CANNEL <td></td> <td></td> <td>0 0 44 45 45 45 0 0 45 45 45 0 0 12.244207 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>45 45 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>80000000000000000000000000000000000000</td> <td>0000000000<b>8</b>00000000000000000000000000</td> <td><b>~~~</b>~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~</td> <td>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td></td> <td>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td>			0 0 44 45 45 45 0 0 45 45 45 0 0 12.244207 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	45 45 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	80000000000000000000000000000000000000	0000000000 <b>8</b> 00000000000000000000000000	<b>~~~</b> ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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131         SHODS           132         CAMENE           133         CAMENE           133         CAMENE           134         CAMENE           135         CAMENE           134         CAMENE           135         F_JODS           136         F_JODS           137         SJONE           138         SJONE           139         Lakes           140         Herbern           142         Herbern           143         F_JONE           144         Herbern           145         HERBER           146         Herbern           147         FREPT           148         KARNEN           149         KARNEN           141         Herbern           142         HERBER           143         HERBER           144         HERBER           145         HERBER           146         HERBER           147         HERBER           148         HERBER           149         HERBER           141         HERBER           142         HERBER </th <td></td> <td></td> <td>0 0 44 45 45 45 0 0 45 45 45 12.244207 0 12.244207 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>45 45 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>00000000000<b>5</b>0000000000000000000000000</td> <td>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td></td>			0 0 44 45 45 45 0 0 45 45 45 12.244207 0 12.244207 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	45 45 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00000000000 <b>5</b> 0000000000000000000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
131         SMOS           132         CAMER           133         CAMER           134         CAMER           135         CAMER           136         CAMER           137         CAMER           138         P.JSCH           138         P.JSCH           139         LANK           141         HANK           142         MARK           143         MARK           144         MARK           145         MARK           146         MARK           147         MARK           148         MARK           149         MARK           141         MARK           142         MARK           143         MARK           144         MARK           145         MARK           146         MARK           147         MARK <td></td> <td></td> <td>0 0 4 4 4 4 5 4 5 0 4 5 0 0 4 5 0 0 4 5 0 0 1 2.204207 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>45 45 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>00000000000<b>5</b>0000000000000000000000000</td> <td>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td></td>			0 0 4 4 4 4 5 4 5 0 4 5 0 0 4 5 0 0 4 5 0 0 1 2.204207 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	45 45 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00000000000 <b>5</b> 0000000000000000000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
131         SHODS           132         CAMENE           133         CAMENE           133         CAMENE           134         CAMENE           135         CAMENE           134         CAMENE           135         F_JODS           136         F_JODS           137         SJONE           138         SJONE           139         Lakes           140         Herbern           142         Herbern           143         F_JONE           144         Herbern           145         HERBER           146         Herbern           147         FREPT           148         KARNEN           149         KARNEN           141         Herbern           142         HERBER           143         HERBER           144         HERBER           145         HERBER           146         HERBER           147         HERBER           148         HERBER           149         HERBER           141         HERBER           142         HERBER </th <td></td> <td></td> <td>0 0 44 44 45 45 0 0 45 45 45 12.244207 0 12.244207 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>45 45 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>00000000000<b>5</b>0000000000000000000000000</td> <td>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td></td>			0 0 44 44 45 45 0 0 45 45 45 12.244207 0 12.244207 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	45 45 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00000000000 <b>5</b> 0000000000000000000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
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# Table E-1.Core ECO Spreadsheet - Value View<br/>(page 4 of 8 pages)

# Table E-1. Core ECO Spreadsheet - Value View(page 5 of 8 pages)

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349 10,00	0	4.7847348	4.7847349				4.7847349					
110 18,000	9	9	0	0			0.8921272					
381100	•		0	0 12.320846	4.8928048		12.320040		. 4.9925041			
112 DENCE 112 MACON		12.320646	28.470426							28.470620		
314 mor			48,403326						48.403324			
STE STANDARD		44.690366	48.890345	48 680345	48.690345				48.690368			
STATE PRODUCT	13.658487	13.469497		13.656447		13.668487	13.658487	13.469487	13.458487			
317 V.1.18	. •	0								19.854767		
150 07902	0		9							5.2280507		
31104	. 0	0			10.813774		42.940434		\$0.813774			
380 Wirths			formulas e				*2.3.8.9934	-2.30.044	• • • • • • • • • • • • • • • • • • • •	48.800034	48.940634	42.960634
102 Total	232.98991	681.62951				1534.4291	1534.4291	1534.4291	1834.4391	1534.4291	1534.4291	1534.4297
113 Ge Tot	15878.841											
384 (tons aresult	and grant to	illé envergy adv	ninga in1000s	of Milita's)								
344												
盟(13)	Annual Des	und Savings	•									
	In Glowage		-									
	h 84	795	N99	1797		N99	500	ty01	NQZ	N03		~~~~
17 1 Becz	0	•	6172.764	6172.788	6172.764	6172.766	6172.768	6172.764		6172.768		6172.768
372 000	0	0	4127.872	4127.472	4127.872	4127.872	4127.872	4127.872				
171 Cunton 1774 Canada	0	4445.5147	0 4465.5147	4465.5147	4465.514		4781.2893 4465.5147					
37517_DIM	0			3384.0427			3384.0427					
3767,000	ő	8104.224	\$104.224	4104.224	6104.2.4			4104.224		6104.224		
177 1,000	ő	4974.5173	4874.5173	4874.5173	4874.5173	4974.5173	4974.5173	4874.5173	4974.5173	4974.5173	4974.5173	4974 5173
371 200	1880.1787			1288.1787		1259.1787		1259.1787		1259.1787		
379 LINES	0	0	0	2836.4053	2020 4000	0	0	. 0		0	0	0
16.0 Matter	0	0 3079.4027	0 3079.4027	2038.4063			2636.4083					2836.4053
182 Hence	ŏ	0	0	3295.1893			3295,1493					
183 17.000	ō		3866.3893			3866.3893	3866.3893	3846.3893	3868.3893			
184 P., PXK	0	٥	0	0	9	3362.464	382.464	3362.444	3362.464	3362.464	3382.464	3382.484
38 6 Pager	0	0	3978.0807		3878.0907			3978.0907				3978.0907
18.6 waartell 18.7 Strange	0	0 2760.6	0 2790.8	0 2760.8	0 2760.8	0 2760.8	0 2760.3	0 2700.8	U 2760.8	0 2760.5	0 2760.8	0
18 W Beant	5851.4207	3861.6267	5881.4267			5851.6267					2760.8 58\$1.6267	2760.8 5851.6267
100 0.200	0	4325.048	4325.048	6325.068	4325.088	4325.988	6325.088	6325.088	4325.088	6325.068	6325.066	4325.084
190	ō	3048.286	3066.268	3044.288	3088.288	3088.288	3068.268	3088.284	3048.288	3068.288	3088.288	3088.288
391 2.0125	0	¢	3361.804	3381.504	3381.504	3381.504	3381.504	3381.504	3381.504	3341.504	3361.504	3381 504
192 00000	9	0	0	5610.4633		5010.4533		5610.4833				5610.4533
3 9 3 HUNDHU 3 9 4 JOCINE	0	0 606.67677	3187.298	3187.298	3187.298 4204.0321	3167.296	3187.296	3167.298 4204.0321	3187.296 4204.0321	3147 296	3187.296	3187 296
326 P.JNCK	ŏ	0	0	5813.8447	5813.8467		5813.5467	5813.5467				5813.5467
396 LDL.	ā	ő	õ	0	2939.776	2939.776	2939.776	2939.779	2939.778	2939,774	2939.778	2939,775
387 -	0	0	0	3678.712	3675.712	3575.712	3878.712	3878.712	3875.712	3575.712	3875.712	3575.712
198 4034	0	0	4048.6347	4046.6347	4946.6347	4044.6347		4048.8347	4048.8347	4946.6347	4048.8347	4046.6347
1001-002	9	0	0	0 1748.3884	0 4 <b>879.754</b> 7	0 4879.7547	4679.7547	9	0	0		0
400 URI NO 401 Metatr		a	478	478	478	478	476	4878.7547	4 <b>879.7847</b> 478	4 <b>57</b> 3,7 <u>3</u> 47 474	4878.7547	4579.75471 476
102 000 5	ŭ	å	584.048	594.048	\$84.048	594.048	584.048	554.048	584.048	594.048	584 048	584 0481
103 704.3	ă	ő	387.982	357.952	357.952	287.982	367.962	387.982	387.982	387.952	367.962	357.952
404 WIRLD	0	0	0	•	0	0	0	0	0	0	0	0
401 100 10	0	616.886	616.896	616.896	414.896	616.886	618.896	016.890	816.896	518.896	616.896	618.696
406 100K_1	0 0	1928,1173				1926.1173	1928.1173	1920.1173	1928.1173		1928.1173	1928.1173
40 Sitemer		332.56533		332.56833		332.56533		332,56833			595.31733 332.56833	598.31733 332.565331
40 HO MP		460,768	460.766	440.744	440.788	440.788	480.768	460.768	40.786		460.768	460.758
410 18,000	ő	0	0	0		10.409333	98.469333	10.469333	96.469333	10.469333	\$3.468333	96.4693331
41110 MP	0	0	•	0	583.42933			553,42933	553,42933		\$\$3.42933	553.42933
412 00000	1344.224	1344.224	1344.224	1344.224	1344.224	1344.224	1344.224	1344.224	1344.224	1344.224	1344 224	1344 224
414 MILET	4985 3464	4744.2987	4744-Z¥87 4985.7885	4288.2887	4286.2445	4285.2485	2744.2987 4288.2683	4744.2787 4986 9884	4784 7444	4744.2987 4786 1444	2744 2917	2744 2987
415 AMERICA	5205.536		\$208.538	\$205.536	3205.536		\$205.536	\$205.634	5205.534	\$205.536	5205 614	5205 L14
418 1. 11		1670.4427	1670.4427	1670.4427	1870.4427	1670.4427	1670.4427	1870.4487	1670.4427	1670.4427	1670.4427	1670.44271
417W 8.HR	•	0	1740.284	1740.256	1740.256	1740.256	1740.256	1740.256	1740.256	1740.256	1740.256	1740.256
418 01022	. 0	0	0				\$\$9.776		\$69.776	589.776	\$58.775	558.776
	. 0	0	<u>•</u>	3027-8293	POR7.8293	1027.8293	5027.8293	5027.8293	5087.8293	5027.8293	502/.6293	5027 8293
420 muom	. •	Q.	fermulae an			4384.624	4390.624	4390.824	4399.6 <b>2</b> 4	4390.824	4390.624	4390.624
422 Total						143811.68	143811.66	143811.64	143811.68	143811.48	143811 ##	143811 44
423 Out Tet	1459715						· · · · · · · · · · · · · · · · · · ·					
424 (1981) ANNUS		li demini se	rings in Klievi									
62.6												
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426												
	Annual Con											
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	Annual Cool In 1000s of d		ly 94	hy97	179%	1488	tygg	1991	NOZ	'v03	W04	NOS
	In 1000s of d Iv#4 0	ottare tytel	1014-3728	1814.3728	1814.3728	1814 3728	1814 3726	NO1	NO2	1814 2728	104 1814 3726	NO5
	in 1000s of d <u>1v94</u> 0 0	offers tysi 0	1814.3728	1014.3720	1164.1869	1164.1960	1184.1989	1164.1968	1166.1989	1164 19-9	1164 1969	1164 19691
	in 1000s of d <u>fy94</u> 0 0	0 0 0 0	1814-3728 1184-1988 0	1014.3720 1104.1980 0	1184.1869 875.58748	1184.1968 875.98748	1184.1989	1164.1969 - 875.96746 -	1166.1989 875.987-8	1164 (9/ 9 - 875-5674± -	1164 1969	1164 1969 875 96748
	in 1999s of d <u>fv94</u> 0 0 0	0 1 661.0228	1914-3729 1164-1999 0 1991-0228	1014.3720 1104.1900 0 1081 0236	1184.1869 675.56748 1881.0228	1164.1960 875.96746 1681.0226	1184.1989	1164.1969 875.96746 1681.0225	1164.1989 875.987-8 1681.0228	1166 (9/9) 675-9674± 1681 0226	1164 1989 075.96748 581 0226	1164 1969 875 967481 1661 0226

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Table E-1.		Spreadsheet -	Value View
	(page 6	of 8 pages)	

	A		e I	0	<u> </u>		a	H		L 1	I K	L	M
	1,000	0	1799-4945	1799.6945	1789.8865	1798.4945	1799.8946	1798.4945		1799.0065	1799.8945		1799.4965
	8.)(036 314636	0 7 <b>66.2825</b>	1008.7475	1008.7478	1008.7478	1408.7475	1008.7478						1408.7475
CFT	LINES	0	0	0	0	0	0	0	0	9	٥	0	0
		0	929.48416	0 929.49418	\$85,44263 \$29,49416					- 588.44283 - 929.49414			
441		ŏ	0	9	743.52392	743.52392	745.82302	743.52392	743.52388	743.82392	743, 52392	743.52392	743.52392
	17,000	0	1418.7184	1416,7194	1416.7194	1416.7194	1416.7194				1416,7194		
	P_1018 R018	0	0	947.53544	967.93546	147.93544	167.13346						
		ġ	0	0	0	0	0	0	0	0	0	0	0
	BAGHT	2835.1431	2638,1431	198.97361 2838.1431	898,97361 2858,1431		898.97381 2938.1431			886.97361 2858.1431			- 898.973811 - 2838.1431
		0	2368.0197	2346.0197	2346.0197					2368.0197			
	97.JEX 200115	0	1454.9055	1454.9098	1454,9005 818,86844	1454.9055	1454.9098	1454.9098			1454.9088	1454.9098	1454.90981 815 968441
412	CONCOM	ō	ō	0	1086.8661	1088.8461	1088.2951	1088.8651	1088.8681	1084.8661	1086.8651	1086.2651	1086.8651
		0	189.33204		1026.6041	1028.6941	1028.6941	1026.6941	1026.6941		1028.6941		1026.6941
411	P.,105K	ă	0	0		1370.6305	1370.6305	1370.4308	1370.6305	1370.4305	1370.6305	1370.6305	1370.6305
	LENGER PT_LEE	0	<b>a</b>	<b>a</b>	0 815.10556		\$30.93545				530.93545 815,10896		530.93545
	FLICTOR.	ő		884.79304			884.79304					884.79304	
45.8	7_5XL	ò	0	9	0 425.99048	0 1119.731	0	0	0 1119.731	0 1119.731	0	0	0
	ANNERT	, 0	a		132.01632	132.01832	1119.731	1119,731			1119.731	1119.731	1119.731
462	came_c	-	<u> </u>	161.432	161.402	101.432	161.432	161.432	161.432	191.432	161.432	161.432	161.432
	PONE_C	ر ہ	0 0	41.4 <b>63234</b> 0	\$1.4 <b>63238</b> 0	81.4 <b>63238</b> 0	81.463238	81.4 <b>43238</b> 0	01.4 <b>43238</b> 0	61.463238 Q	\$1.4 <b>63235</b> 0	61.463238 0	61.463238
111	NIL OF	0		177.39366			177.39386			177.38366	177.39.466	177.39366	
	NUCK_X	0 0	758.5258	750.5258	738.5254	758.5258	788.5258	758.5258	758.8258	759.5258	758258	758.5258	758.5258
444	WATER	. 0	134.44438	134.44538	134.44438	134.44438	134.44438	134.44438	134.44436	134.44438	134.44438	134.44436	134.44436
	HO, NH	0	140.93892	140.93892	140.93892		140.93892			140.93892			140.938921
471	RD AND	ō	Ő.	ŏ	â	12.046792	92.044792	92.044792	92.045792	92.044792	92.046792	92.046792	12.046792
	MACUT		1012,8294 2013,6279							1012.8294 2913.6279			
474		1819.5315	1619.9318	1619.9318	1619.9315	1419.9315	1019.9318	1819.9316	1819,9315	1819.9315	1819.9315	1819.9315	1019.9315
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477	W.S.M.	. 0			475.22848	475.22844	475.22848	475.22548	475.22948	478.22644			
		0	0	0	121.30902	1144.64	121.30002	121.30002	121.30002	121,30002	121.30002	121.30002	121.30002
		ġ	å	ŏ	989.18107					989.18107			
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		0	0		16402.182					16402.182	18402.182	16402.182	16402.182
		0	1147 8	0 114 <b>58.645</b>	0 11458.645		17250.007			17258.087	17238.087		17258-087
	P_CH01	Ó	5844.848	\$\$90.929	\$890.929	1590.929	\$580.929	\$690.929	5590.929	5590.929	\$890.929	5590.929	5590.929
	1000 1004	0	19429.88 16144.314	19429-88	19429.86 18144.814	19429.86 18144.614	19429.88	19429.88 16144 814	19429.88	1 <b>2429.86</b> 1 <b>6144.814</b>	19429.88 19144.814	19429.88	19429.88
498	2040H	1249.0346		1249.0346	1249.0346	1249.0346	1248.0346	1249.0346	1249.0346	1249.0346	1249.0348	1249.0346	249 0346
	LINES .	0 0	0	0 0	0 7274.3944	0 7274.3944	0 7274.3944	0 7274.3944	0 7274.3944	7274 3944	7274-3944	0 7274 3944	7274 3844
101		ů.		8350.4995	8350.4995	4360.4995	1350.4995	8350.4995	8350.4995	4350.4999	1350.4995	1350.4995	1350 4995
103	PT.CHD	0	0 2407.4309	2407.4309	0438.5138 2407.4300	5438.8132 2407.430P	4438.5132 2407.4309	#438.5138 2407,4309	2407.430	\$438.\$132 2407.4309	478.5132 2407 4304	8438.5132 2407 4308	1438.5132
104	P_XIX	ō	q	0	0	0	1555.1636	9888.9638	1558.7635	1586.9636	9588.9636	9888.9636	1588.9836
		0	0 0		11466.612					11466.612			1466.512
141		, i	8190.0441	8190.0441	6190.0441	8190.0441	8190.0441	8190.0441	8180.0441	8190.0441	8190.0441	8190.0441	1190.0441
	poinc E.jie	10027.230	10927.238	16927.230	16827.239	10027-239	10079 733	10070.729	10927-239	16927.239	16927.239	16927 239	6927.239
110	97 JUL		2580.6937	2180.8937	2880.4837	2500.4937	2580.8937	2580.8927	2880.8937	2880.4937	2580.8937	2580.6837 (	1680.8937
		0	0	7082.7085	7062.7085	7062.7085	16428 732	7082,7085	7062.7085	15428.732	7062.7088	7062.7085	082.7085
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# Table E-1. Core ECO Spreadsheet - Value View(page 7 of 8 pages)

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111 1000.1	Ó	2660.3683		11-0.1053	2680.3883		2680.3883	2000.3869	2000.3653	2680.3853	2660.3863	2860.3853
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111 Head	2217.3204	2217.3204			2217.3204		2217.3204	2217.3204		2217.3204		2217.3204
114100	12384.666	12384.688	12364.689	12549 410	12364,466	12354.666	12384.686	12384.846	12384.668	12384.660	12354.869	12354.666
114	13187.422		13187.422	13137 422		13187.422	13187.422	13187.422	13187.422	13187.422	13187.422	13187.4221
\$36 VICTOR \$37 W S.HR	1225.4463	1225.8463	1228.8653			1225.8653	1225,8663	7161.8187		7161.8157		7161.8157
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Table E-1.		Spreadsheet -	Value View
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		ā			2580.1467		2558.1867		2590.1647			2598.1687	2598.16671
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		- i		0	4373.28	4373.2#	4373.28	4373.25	4373.25	4373.25	4373.25	4373.25	4373.25
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Table E-2.	<b>Core ECO</b>	Spread	dsheet -	Formula	View
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## Table E-2. Core ECO Spreadsheet - Formula View (page 2 of 8 pages)

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Cumulative % investment			
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NG3 -6131	+6191+G131	+G191+0131	+G1\$1++1131
1011 - 1132	+8198+G132	+G192+D132	-G192+H132
UNICAL = 0133	a6193+G103	=G133+D133	=Q193=H133
NRG +8134	n@194+G134	-G194-D134	-0194-1134
,57504 +8136 }6230 +8136	+6195+C135	=G125+O135 =G126+O138	#G198+H135
)6201 +6136 )6202 +6137	+6197-C137	+G197+O137	#G196+++138 #G197+++137
MDF -6136	+6196+C138	+G198+0138	-6198-1138
MR -8139	+8199+G139	+G199+O139	+G199+H139
SDY +8140	-8200-G140	+C200+O140	=G200+H140
<b>ITAL -0141</b>	+#201+G141	-C201+O141	·Q201++141
MCH -6142	-6202+6148	-C202+0142	-0202++142
/_380 =#143 352x =#144	+8203+C143	=C203+0143 =C204+0144	•G203+H143
JER -8146		-6208-0148	=C1204=H 1 44 =C1205=H 1 45
MM =8146	#8208+G146	-6206-0144	=G206++1146
1947 =#147	-8207+G147	-C207-0147	-0207-14147
90963 ##148	#8208+C148	=C206+0146	+G208+H148
<b>SHE -8149</b>	-8209-G149	-C209-O149	=G209+++149
1,02X +6160 1772 +6161	-8210+C150 -6211+C151	=C210+0150 =C211+0151	=Q210=H150 =Q211=H151
2000 -8162		-C212-0162	+G212+H182
4153	-8213-G153	-C213-0153	-G215-H153
CRML =8184	-8214+C154	+C214+Q184	#G214++1154
MCK =4155	-6215+G155	-C218+0158	=Q215=H155
2Max =0.154	-6210-C156	-6216-0156	=G216-H156
LINE =4187 CNNR =4158	+8217+C157 +8216+C166	=C217=0187 =C218=0188	+G217+H157 +G218+H158
SIL -8159	-8219-6189	#C218+0169	4021944155
N.10 =4140	-6220+C160	-C220+0160	+G220-H160
HUT -\$1\$1	+6821+G161	#G221+O101	=G221+H161
Nr.c -0162	+6822+C168	-C222+0148	•G222 ++ 162
HLD =8163 HLD =8164	=6223+C163 =6224+C164	#C223+0183 #C224+0184	=Q223=++103 =Q224=++104
D_N -8165	-##21-C188	#C225-0145	-G225-M165
2.1 -0100	-6228-G186	-G226-0166	
BB +6167	#8227+G167	-6227-0167	=G227=H167
BY_ = \$148	=6228+G166	-C228+0108	-0228-148
NA -8169	-6229+G160	+C229+D160	-0229-++169
AAP =\$170 AAP =\$171	=#230+C170 =#231+C171	+C230+Q170 +C231+Q171	=0230++170 =0231++171
201 +0172	=8233+G172	*G232+0172	=0231=4171
C/F +6173	+8233+G173	+G233+0173	-0233-+173
Et +E174	#8234+G174	+C234+0174	-0234-1174
NCK =6175	-8238+C175	+G235+0175	+G235+H175
1207 +6176	###36+C176	=G236+O176	+G226+H178
<u>18.</u> +6177 338 -46178	#8237+C177 #8238+C178	+C237+0177 +C238+0178	+G237+H177 +G238+H178
MA +#179	+6239+C179	=C239=D179	=G238+H178 =G238+H179
21L +6180	+8240+C180	#C240+0100	=0240+4180
Annual Implementation e	ie ete		
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1/94 +461118131	-4811*C131	-4911°D131	
ND +661178131 NNE +681278132	-5811°C131 -5812°C138	-4811*0131	#4812***132
NGN 4881378133	*##12*C132	-6813*D133	+4813.H132
404 4814-8134	.8814*C134	-5814*0134	=\$\$14'H134
361 +4815*8135	+481#*G138	-4815"D138	-481514135
CCD +8816*8136	-5816*C130	-681010136	-681614138
HCDE +8817***137	-4817*C137	-4817*0137	-5017"+137
	+\$816*C138	#5816*D138	-801014130
1001 +881619136 1001 +881918139		#6819 CH36	-1814144
600 - 6891919138 600 - 681919139 607 - 682019140	+5819"C139 +5820"C140	-6819 D139 -6820*D140	#88187H139 #8820*H140

### Table E-2. Core ECO Spreadsheet - Formula View (page 3 of 8 pages)

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### CAA-SR-93-7

Table E-2.	<b>Core ECO</b>	Spreadsheet	•	<b>Formula Viev</b>	V
	(page	4 of 8 pages)			

	e e e e e e e e e e e e e e e e e e e		н
24211000 -4422*5142	+5882*G148	-4822'0142	-4882'1142
163 W	-1823'C143	-4823*0145	=\$823"M143
1847, JULK +4824"8144 185 MULK +6828"8148	-1824°C144 -1825°C146	-8824"0164	
2.6		+5225"D146 +5226"D146	
287 mmer +6887*8147	-8887*6147	-4827"0147	-4827"1147
28.4 0000 -5828-8148	-4828*6144	-4825"0144	-##24***148
205 x.000 +6829*8149 279 m.000 +6839*8169	~\$\$\$\$°C149 ~\$\$\$\$°C150	-5829*0149 -5820*0169	«8829"+140 «8830"+1160
270 PT_DER =4830"8160 971 HEREE =4831"8181	-1101010101	4831'0181	4883174151
27.2 00000 +5038"0162	-4838*6188	-4632"0152	-5832"1152
27.3 HERCHU -68035*8163	-4853*0163	-\$833"0153	+\$833°H183
274 36388 +4834*8184 2737 7.9008 +4838*8185	-8834°C184 -8836°C185	=\$834*01\$4 =\$838*01\$\$	-6834'1154 -4838'1155
2791204	-4836"C156	-6826'0186	44434 (1155 48838'M156
27777.108 -6837*8187	-4637*C167	-8837"0157	+4837*H187
27.0 100000 -6838"8188	-6838'C186	-5838"0188	.5836"1150
2797,551 +4839*8189 280128140 +4840*8160	-6839°C189 -8849°C169	~\$838"D168 ~\$844"D160	=\$\$39'H1#0 =\$\$40'H1#0
2831/0007 -4841'8181	-4841*0161	45641"[2161	+\$#41"H161
282 000 0 -4842*8182	-5842'C162	=\$842"D162	+4842*M162
2.53 PDR.A -6843*8163	-5543*0183	+8843°D163	+\$843°H143
284 WINKA +4844*8184 285 WEDJW +4846*8185	*##44*C164 *##46*C165	~\$844*0164 ~\$846*0165	=\$\$\$44*11144 =\$#45*11145
286 1032,2 +5846*8166	9910 <sup>-</sup> 9484	-5846"0166	=#### [1] ## =##### [1] ##
287 TERA +6847'8187	-5847*0187	+\$847"D167	n\$\$47"14167
28	-4848*0166	*##46*D140	**********
28840,000 +4849'8166 28012,000 +4860'8170	-\$\$49*C169 -\$\$\$\$70	-3849*016# -4855*0170	=8#49***1169 =6##80**1170
281180 AND -4881'8171	-6861*0171	-4851"0171	
192 CHENCE -4888"8172	-4855"C172	-6862*0172	·\$8#2*H172
293 HOURT 44843'8173	+6863°C173 +8854°C174	-4843'0173 -4854'0174	48##3*14173 48##4*14174
215 Americ -5855"8175	+4854"C175		4582474174 4582574175
23.4 PERMY -4484"8178	-8864"0176	-\$856'0176	-5856"1176
2974 4.H	-S867"G177	-6857*0177	+\$#\$7***177
23.007058 =4858'8178 23.011 1980 =5868'8179	-CB56*C175 -6856*C179	-4854*0178 -4855*0179	45844****** 4884\$****
200101000 -4840'8100	A6860"G180	4880°0180	-5840"H160
101	sumproduct formulae an	a wand in na	
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324           329           329           329           329           329           329           329           329           329           329           320           321           321           321           322           323           324           325           326           327           328           329           329           320           320           320           321           322           323           324           325           325           326           327           328           329           329           320           320           320           320           320           320           320           320           320           320           320           320           320	ite sta-by-sta companyon ivas -4011*C191 -4012*C192 -4012*C193 -4014*C194		=\$611%1191 =6612%1192 =6613%1193 =6613%1193 =6614%1196
384           384           388           387           388           388           310           111           312           313           112           313           113           314           315           113           314           315           114           315           115           316           116           317           318           319           311           312           312           312           313           314           315           316           317           318           318           319           310           311           312           313           314           315           316           317           318           318           318           318           318	ite ste ey-ste companyou - 46011*0191 - 46012*0192 - 46012*0192 - 46012*0192 - 46012*0192 - 46014*0195		=\$C11"H191 =4C12"H192 =4C13"H193 =4C14"H194 =\$C14"H194
30.4           30.9           30.9           30.9           30.9           30.9           30.9           30.9           30.9           30.9           30.9           30.9           30.9           31.0           19.4           31.1           31.2           20.9           31.2           20.9           31.2           20.9           31.1           21.1           31.2           20.9           31.2           20.9           31.1           21.4           21.4           21.4           21.4           21.4           21.4           21.4           21.5           21.6           21.7           21.7           21.7           21.7           21.7           21.7           21.7           21.7           21.7           21.7           21.7           21.7	ite sta-by-sta companyon ivas -4011*C191 -4012*C192 -4012*C193 -4014*C194		=\$611%1191 =6612%1192 =6613%1193 =6613%1193 =6614%1196
30.4           30.9           30.9           30.9           30.9           30.9           30.9           30.9           30.9           31.0           11.0           31.0           11.0           31.1           31.2           31.3           31.4           31.5           31.6           31.7           31.8           31.9           31.9           31.1           31.2           31.9           31.1           31.2           31.2           31.2           31.2           31.2           31.2           31.2           31.2           31.2           31.2           31.3           31.4           31.5           31.7           31.8           31.9           31.9           31.9           31.9           31.9           31.9           31.9           31.9	Ine ste by ste companyou - 4601170191 - 4601370192 - 4601370192 - 4601370195 - 4601470195 - 4601470195 - 4601470195 - 4601470195 - 401470195		=601114191 =601214192 =601214193 =601314193 =6014195 =6014195 =6014195 =6014195
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32.4           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           31.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9	Ine ste by ste companyou - 4601170191 - 4601370192 - 4601370192 - 4601370195 - 4601470195 - 4601470195 - 4601470195 - 4601470195 - 401470195		-\$611'H191 -\$612'H192 -\$612'H193 -\$614'H193 -\$614'H195 -\$614'H195 -\$614'H195 -\$617'H197 -\$612'H195 -\$619'H195 -\$6219'H199 -\$6220'H390
324           329           329           329           329           329           329           329           329           329           310           1994           311           312           200000           313           314           2010000           315           211           312           200000           313           214           215           216           317           318           214           215           316           216           317           318           318           319           310000           311           311           312           313           314           315           316           317           318           319           310           311           311           311	Ine 149-544 companyon -46211/20191 -46212/20192 -46212/20192 -46212/20192 -46212/2019 -46212/2019 -46212/2019 -46212/201 -4622/2020 -4622/2020 -4622/2020	- ADDIVE (THE EU - 4G(1)*0191 - 4G(12*0192 - 4G(12*0192 - 4G(13*0194 - 4G(18*0194 - 4G(18*0196 - 4G(1**0197 - 4G(18*0196 - 4G(1**0199 - 4G(1**0199	-561174191 -661274192 -861374193 -861474196 -861474196 -861474196 -861474196 -861474196 -861974196 -862974300 -862274301 -862274302
32.4           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.1           32.9           32.1           32.2           32.2           32.2           32.2           32.2           32.2           32.2           32.2           32.2           32.2           32.2           32.2           32.2           32.2           32.2           32.1           32.1           32.1           32.1           32.1           32.1           32.1           32.1           32.1           32.1           32.1           32.1           32.1           32.1	Ine 144-57-446 Companying 		-\$G11'H191 -\$G12'H192 -\$G13'H193 -\$G14'H195 -\$G14'H195 -\$G14'H196 -\$G14'H196 -\$G14'H196 -\$G14'H196 -\$G20'H200 -\$G21'H201 -\$G22'H203 -\$G22'H203
321           321           322           323           324           325           325           325           325           325           325           325           325           326           327           328           329           320           321           321           321           321           321           321           321           321           321           321           321           321           321           321           321           321           321           321           321           321           321           321           321           321           321           321           321           321           321           321           321           321           321	Ine ste by ste companying 		-601114191 -601214192 -601314193 -601314193 -601314195 -601314195 -601314195 -601314195 -601314195 -602314301 -602214303 -602314303 -602314303 -602314303
32.4           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.1           32.9           32.1           32.2           32.2           32.2           32.2           32.2           32.2           32.2           32.2           32.2           32.2           32.2           32.2           32.2           32.2           32.2           32.1           32.1           32.1           32.1           32.1           32.1           32.1           32.1           32.1           32.1           32.1           32.1           32.1           32.1	Ine 144-57-446 Companying 		-\$G11'H191 -\$G12'H192 -\$G13'H193 -\$G14'H195 -\$G14'H195 -\$G14'H196 -\$G14'H196 -\$G14'H196 -\$G14'H196 -\$G20'H200 -\$G21'H201 -\$G22'H203 -\$G22'H203
321           321           322           323           324           325           326           327           328           310           100           311           312           313           313           314           315           311           312           313           314           314           315           314           315           316           317           318           3111           3111           312           313           314           314           314           315           316           317           318           319           311           311           311           311           311           311           312           313           314           314           314	Ine 144-57-446 Companying -4611*C191 -4613*C192 -4613*C192 -4614*C193 -4614*C193 -4614*C194 -4614*C194 -4614*C194 -4614*C194 -4615*C194 -4615*C194 -4615*C194 -4623*C205 -4623*C205 -4623*C205 -4623*C205 -4623*C205 -4623*C205	- ADDIVE (THE EU - 4-GC 11*0191 - 4-GC 11*0191 - 4-GC 12*0192 - 4-GC 12*0193 - 4-GC 12*0195 - 4-GC 12*0196 - 4-GC 12*0196 - 4-GC 12*0196 - 4-GC 12*0196 - 4-GC 22*0202 - 4-GC 22*0202 - 4-GC 22*0203 - 4-GC 22*0204 - 4-GC 22*0204 - 4-GC 22*0204 - 4-GC 22*0204 - 4-GC 22*0207	-601114191 -601214192 -601314193 -601314193 -601314195 -601314195 -601314195 -601314195 -601314196 -60214401 -60214401 -602214202 -602314203 -602314204 -602314204 -602314204 -602314204 -602314204
32.4           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9	Ine 149-544 companyon 		-661114191 -661274192 -661374193 -66144196 -66144196 -661774197 -661874196 -662774197 -662374300 -662274302 -662274303 -662274304 -662374305 -662374306
321           321           321           321           322           323           324           325           325           326           327           328           329           320           321           321           322           323           323           324           325           325           326           327           328           329           320           321           321           321           321           321           321           321           321           321           321           321           321           321           321           321           321           321           321           321           321           321           321           321           321	Ine 144-57-446 Companying -4611*C191 -4613*C192 -4613*C192 -4614*C193 -4614*C193 -4614*C194 -4614*C194 -4614*C194 -4614*C194 -4615*C194 -4615*C194 -4615*C194 -4623*C205 -4623*C205 -4623*C205 -4623*C205 -4623*C205 -4623*C205		-601114191 -601274192 -601374193 -601374193 -601474196 -601474196 -601474196 -601474196 -601474196 -602474196 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -60224400 -6024400 -6024400 -6024400 -6024400 -6024400 -6024400 -6024400 -6024400 -6024400 -6024400 -6024400 -60240400 -60240400 -60240400 -60240400 -60240400 -60240400 -60240400 -60240400 -60240400 -60240400 -60240400 -60240400 -60240400 -60240400 -60240400 -60240400 -602400 -60240400 -60240400 -60240400 -60240400 -60240400 -60240400 -60240400 -60240400 -60240400 -60240400 -60240400 -60240400 -6024000 -6024000 -6024000 -6024000 -60240000 -602400000000000000000000000000000000000
32.4           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           31.0           19.9           31.1           31.2           2.9           31.3           2.9           31.3           2.11           31.2           2.9           31.2           2.9           31.1           2.9           31.1           2.11           31.1           2.11           31.1           31.1           31.1           31.1           31.1           31.1           31.1           31.1           31.1           31.1           31.1           31.1           31.1           31.1           31.1           31.1	Ives           -4601170191           -4601170192           -4601170192           -4601170192           -4601170192           -4601170192           -4601170192           -4601170192           -4601170192           -4601170192           -4601170192           -4601170192           -4601170192           -4601170201           -4601170201           -4601170201           -4601170201           -4601170201           -4601170201		-601174191 -601274192 -601374193 -601374193 -601474196 -601474196 -601474196 -601474196 -601474196 -602174190 -602274300 -602274303 -602274303 -602274303 -602274304 -602374306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -602474306 -6024744006 -602474406 -602474406 -602474406 -602474406 -6024
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32.4           32.9           32.9           32.9           32.9           32.9           32.9           32.9           32.9           31.0           19.4           31.1           31.2           2.9           31.3           31.4           31.3           2.11           31.3           2.11           31.3           2.11           31.3           2.11           31.3           2.11           31.3           2.11           31.3           2.11           31.3           2.11           31.4           2.11           31.3           31.4           31.5           31.6           31.7           31.8           31.8           31.1           31.1           31.1           31.1           31.1           31.1           31.1           31.1           31.1     <	Ine         Life State State           -SCI 17C191         -SCI 17C191           -SCI 17C191         -SCI 17C192           -SCI 17C192         -SCI 17C192           -SCI 17C193         -SCI 17C193           -SCI 17C197         -SCI 17C197           -SCI 17C197         -SCI 17C197           -SCI 17C197         -SCI 17C197           -SCI 17C197         -SCI 17C200           -SCI 17C201         -SCI 17C203           -SCI 17C203         -SCI 17C203           -SCI 17C205         -SCI 17C205           -SCI 17C207         -SCI 17C207           -SCI 17C208         -SCI 17C208           -SCI 17C208         -SCI 17C201           -SCI 17C201         -SCI 17C201	Ives           -aC11*0191           -aC11*0191           -aC11*0191           -aC11*0192           -aC11*0193           -aC11*0194           -aC11*0195           -aC11*0196           -aC1*0196           -aC1*0197           -aC1*0196           -aC1*0196           -aC1*0196           -aC1*0196           -aC1*0196           -aC1*0201           -aC21*0201           -aC21*0202           -aC21*0203           -aC21*0204           -aC21*0205           -aC21*0208	-661114191 -661274192 -661374193 -661374196 -661374196 -661374196 -661374196 -662374301 -662274303 -662374303 -662374304 -662374305 -662374305 -662374305 -662374305 -662374305 -662374305 -662374305 -662374305 -662374305 -662374305 -662374305 -662374315 -662374313
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4-6C (1************************************</td> <td>-601114191 -601274192 -601374193 -601374195 -601474196 -601474196 -601474196 -601474196 -601474196 -602474197 -60227400 -60227400 -60227400 -60227400 -60227400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -</td>	- ADAVE (THE 24) - 4-6C (1************************************	-601114191 -601274192 -601374193 -601374195 -601474196 -601474196 -601474196 -601474196 -601474196 -602474197 -60227400 -60227400 -60227400 -60227400 -60227400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -60237400 -
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## Table E-2.Core ECO Spreadsheet - Formula View<br/>(page 5 of 8 pages)

<u> </u>		<u> </u>	0	<u>н</u>
	*\$C49*8229 *\$C50*8230	-4C49*C229	«4C49*0229 «8C50*0230	-\$C48*H22# -\$C80*H230
		+4G\$1*C231	=\$C\$1*0\$31	=\$G\$1"H231
	-4G12"\$232	**C52*C233	*4C83*D338	+5G82"H232
11111000	+4613'8333	+4C83*C233	+4CA3*0233	+\$G83*H233
3.8.4	**********	+4C84*C234	#\$C\$4*0234	-8G84*H234
	-4014-8228	-4C44*C234	•\$C\$5"D235	-6C18****138
	-0054'8236	-6C16*C236	-4636*0238	-6C80"H230
367 9 618	•4G87*18287	-8G87*C237	-8687*0237	=8537"H237
	-6688'8238	*\$G\$8*C239 *\$G\$9*C239	*\$G\$6*0238 *\$G\$9*0239	~\$C\$8*H23# ~\$C\$9*H23#
160 macm		*6C60*C246		=\$C\$0"H240
3 8 11		suppreduct formulas are used in n		
1 E Z Total	ALIMPRODUCT(SC11:SCI0,8181;8240)	-SUMPRODUCT(\$611:9640,6191:6240)		-SUMPRODUCT(SC11-SC60,H191-H240)
SILS Ge Tet				
364 (Inter or	•			
20.0				
110				
367	Annual Osmanit Savingr			
110	in Alexante			
	1194	1498	1998	1400
171 10000	4011*8181	+6D11*C191	+\$011*0181	4011*****
172	+4012"8192	*\$D12*C192	-401210192	-4012******
273 CARES	-6013*8193	-6013*0193	-4013'0193	-6013*N193
374 00.006		=\$014*C194 =\$015*C195	=\$014"0194 =\$015"0195	-6D14*H194
175	~\$015*\$195 ~\$016*\$196	+8015°C195	#5015"0195 #5016"0196	+\$D15*H195 =\$D16*H196
178 7,000	«4017°8197	=\$D17"C197	=\$D17*D197	=£015-H195
17.0 39400	-6016"8198	+6018*C198	-4018-0196	-4018"H198
17.9 1945		-6019°C199	-4019-0199	-6019"H199
189 1407	-020*8200	-8080-C200-	-4020-0200	-\$D20"H200
381	-602110201	+6021*C391	*4021*0201	-8021"1201
382 HORE	-4022°8292 +4023°8293	•4023°C202 •4023°C203	*6022*0202	-602274202
112 VT.000	~\$024"\$254 +\$024"\$254	**UEJ~C204	-4023*0293 -5024*0294	=\$023*H293 =\$024*H204
111	-4025'8205	+6028*C205	-4025*0295	+6025"H208
		+6026*C204	-4026-0208	-6026"1206
387 mm.	-4027"9307	+\$D27*C207	-4027-0207	-6027***297
110 0000	-4026*8206	+\$026°C208	-4028"0298	-\$028***208
200 8.288	-4029"8205	*6029*C209	-4029*0209	-\$029"H209
1110	+6030*8210	-4030*C210 -4031*C211	-4030*0210	-4030"H210
191 000705 392 000000	-4031'8811	+6038*C212	46031°0211 46032°0212	-\$031*H211 -\$032*H212
112 1000	-4033'8213	+6033*C213	-4033'0213	=4033"M213
114 30	+4034'8214	-6034*C214	-4034"0214	+4034"H214
1957,988	+4035'8215	+4035*C215	-\$035*2215	+\$035"H216
224 (1999)	-4036'8216	+6036°C216	-8036"0216	-\$034"H216
10777.1	-4037*8217	+8037*C217	-4037*0217	=\$037"M217
399 P.001	-403678218 -403978219	=4030*C210 =5039*C219	+\$038*0216 +\$039*6219	•\$038*H218 •\$038*H219
40.0 100 100		-4040-C230	+4040*0220	-4040"H229
4.0.1 100007	+4041'8281	=\$041*G281	+4041 "0281	+\$041"H221
401 0000 .C	+4042*8222	+8042*C282	+4048*0222	+8042"H222
102 108.0	+5043*8223	*6045°C283	-1043'0222	-4043***223
104 RMMO		+\$044*C224	-1044*0224	•\$044*H224
401 803.1	-4046'8225 -4046'8225	=\$04\$*C21\$ =\$04\$*C21\$	+504510225 +504610225	-5045'H225
407 1008.8	-8047*8227	#8047*C227	+\$D47"D227	+\$047"H229
10 1 100	+6046*8228	-6048*6228	+5046'0228	-4046"H228
10510,00	-1049'9229	-4049*C229	+5049*0229	+\$D49"H229
419 KR.MP	-5060*8230	-6060*C230	-6080*0230	-\$0\$0"H230
611 PD AND	-6051*6231	=4061*C231	+4081*0231	-\$D\$1"H231
412 CIERROIE	«\$0\$2*\$232 »\$0\$3*\$233	-\$012*C232 -\$013*C233	*8052*0232	-6082"H232
4 1 4 PHOLET		=\$Q\$4*C234	-4083*0233 -8084*0234	-\$083"H233 -\$054"H234
115 ABORT	+4045-8238	-6055*C235	-4088-0238	-4055"H232
ALL PRODA	-6084-8234	-8066-C236	+6084*0238	-4056'H236
1174.4.1		-6017-C237	-5087-0237	+\$0\$7***237
A LA UNKER	+\$0\$4*8238	=\$0\$8*C238	-5088-0238	-8058"238
41 1 H H MMD		=4049*C239	+6059*0239	•\$0\$9"H239
	6.20700 TT 60			-5060"H240
	•			AND APRICIDENCY/COLLEGE MILLION MILLION
421 422 Total 423 Gd Tal	- 	-SUMPRODUCT(SD11:SD40,C191:C240)		-SUMPRODUCT(SD11-SD80.H191-H240)
421 427 Total 423 Cid Tat 424 (table on	- 			-SUMPRODUCT(SD11:SD80.H191:H240)
421 422 Total 423 Gid Tat 423 (Idams an 424	- 			-\$UMPRODUCT(\$D11:\$080.H191:H240)
421 423 Total 423 Gel Tat 424 (taus or 424 420	- 			-\$UMPRCOUCT(\$211:\$260.H191:H240)
421 422 Total 423 Gel Tet 424 (total or 424 424 427	- SUMPRODUCT(8011:SC-0.8181:8840) - SUMPRODUCT(8011:SC-0.8181:8840) - SUMPRODUCT(8011:SC-0.8181:8840)			-8UMPRODUCT(SD11:SD80.H191:H240)
421 422 Total 422 Gel Tat 424 (tatus an 420 420 427 420				-8UMPRCOUCT(SD11:SD80.H191:H240)
421 422 Total 422 Cd Tat 424 (tatus at 424 427 427 428	Annual Cost Serings In 1904 of dest	8UMPRODUCT(SD11:2040,C191:C240)	-5UMPRODUCT(S011-S066,0191:0260)	
421 422 Tores 422 Cid Tet 422 Cid Tet 422 (1000 or 420 420 420 420 420 420 420 420	-SUMPRODUCT(8011:SD-x0.8181:B340) - SUM(6482:M482) Annual Cost Savings In 1000s of delays	-SUMPRODUCT(SD11:SD40,C191:C240)	-6UM#PRODUCT(SD11-SD66,D191:D240)	1400
421 422 Teles 422 Cel Tet 423 Cel Tet 424 (Issue on 427 420 427 420 427 420 420 427 420 420 421 unots	Annual Cost Serings In 1904 of dest	-SUMPRODUCT(SD11:SD40,C191:C240)	-6UMPRODUCT(S011-SD66,D191:D2409	
421 422 Teles 422 Cel Tel 423 Cel Tel 424 (Islas on 427 427 427 427 427 420 427 420 420 427		SUMPRODUCT(SD11:SD60,C191:C240) ///85 C71*C191 C72*C193	-6UMPRODUCT(6011-5066.0191:0240)	1400 HTT 14181
411 412 Teves 412 Ge Tet 412 Ge T		-SUMPRODUCT(SD11:SD40,C191:C240)	-5UMPRODUCT(S011-S066.0191-D240)	/ygg cm71 -m191 cm72 -m192

Table E-2.	<b>Core ECO</b>	Spreadsheet	- Formula View
	(page	6 of 8 pages)	

مىرتىيەر بىرىسى	·			
A	-676*8196	-C76*C196	+Q76*D196	M
117 1.000	*676'8199 *677*8197	=G77*G197	+076*0198 +077*0197	aH77"H197
411 2000	-878-8196	+G78*G188	-078-0196	a#178"11198
43.9 1000	-679"8199	-C79*G190	-079*0199	
4411000	-640''8200 -661''8201	+G80*C209 +G81*G201	-000"0200 -001"0201	-H0°H200 ·
442 10008	-600"8202	-C42*C208	*020°200	
1137.00	*443'9253	-CH3*C200	-065*0203	mH83"H263
44.9 700	+664'8204 +666'8205	=G84"G294 =G86"G295	-084*0204 -066*0206	aH84*H204 aH86*H205
111	-446*8204	-C86"C206	-066*D206	-466"1206
447 2124	+887*8207	-CET*C207	-067-0297	-#87*#207
44 8 1000	*866*8296	-C86*C206 -C86*C208	-066*0206	-H68*H208 -H69*H209
449 10.208	-690"1210	#C80*C210	-044"0204 -049"0210	*//49°7209 *//49°7210
411	*601*\$E11	-C01*C211	+001*0211	-H91*H211
412 0000		-C82*C212 -C83*C213	+001*D212	alia 2"H212
414300	-809'8213 -884'8214	•C84*C214	~093*0213 +094*021+	«M93°H213 »M94°H214
111	-806'8218	+CBS*CE15	-046'0218	-H96"H215
		-696*6218	-000"0216	al196"H216
4.6.2 97.588	-897*\$217 -896*\$218	-C97*C217 -C98*C218	+067*0217 +066*0218	aH97*H217 3H98*H218
48.8 9.502	-800"8219	-C99"G219	-De9*0219	aH96"H219
44.0 100 500	-6100°8220	-C100*C220	-6100*0220	·M100'H220
4811 NOCET	+6101*8221 +6102*8222	•C101*C221 •C102*C222	=0191*0221 =0192*0222	•H101'H221 •H102'h222
44.3 704.4	-\$103*#223	+C103*C223	-0193"0223	**************************************
414 -	-8104*8224	-6104*6224	-0104-0224	-1104-1224
	+810' "8225 +811' 1'8225	=C106*C225 =C106*C225	+0108*0228 +0108*0225	aH105"H225 aH106"H226
	-61,7"8227	-G107*C227	-0107"0227	***107*****
41.8 10000	-6104-8228	-0108*0228	-0108-0228	-#106*#228
	-8109"5229 -8110"8230	+C109*C229 +C110*C230	+0199*0228 +0110*0230	airi 109*H229 airi 10*H220
	-6111-0230	-6111*6201	-0111*0231	aH110'H232
47.2 CHENCE	-8112"8232	-G118*G238	-0112"0232	-H112"H232
	-8113*8233 -8114*8254	=C113*C233 =C114*C234	+0113*0233 +0114*0234	elitt371233 elitt471234
	-6116'8238	-0116"0235	+0115 0235	units'H235
47.9 PRESS	-8116*8236	=G116*C236	+0116*0236	-H110*H236
47.714.8.18		-G117*C237		GH117*H237
			-0117'0237	
AT B CHRISE	-6114-0236 -6119-0239	-C118*C238 -C118*C239	+0118'0238 +0118'0238	M118'H238
47 8 019858 47 9 4 1980 48 0 184008	-6114-8238	=C118*C238 =C118*C239 =C128*C239	•0118*0238 •0119*0239 •D129*0246	+H118'H238
47 8 CREEK 47 9 4 1980 48 0 84078	-6116-8236 -6119-8238 -6120-8240	-C118*C238 -C118*C239 -C129*C249 -C129*C249 -cumprudust formulas are used in m	+0118*0238 +0119*0239 +0129*0240	ami 1814238 ami 1914239 ami 12014240
47 8 000000 47 9 14 1000 48 0 10400 48 1 48 1 48 2 Total 48 2 Cel Tot	-8114*8238 -8119*8239 -8120*8249 -8LMPRODUCT(871:8130,8191:8240) -8LMPRODUCT(871:8130,8191:8240) -8LMPRODUCT(871:8130,8191:8240)	=C118*C238 =C118*C239 =C128*C239	•0118*0238 •0119*0239 •D129*0246	MITS'H238
47 8 000000 48 0 00000 48 1 48 1 48 2 Total 48 2 Cel Total 48 2 Cel Total	-8114*8238 -8119*8239 -8120*8249 -8LMPRODUCT(871:8130,8191:8240) -8LMPRODUCT(871:8130,8191:8240) -8LMPRODUCT(871:8130,8191:8240)	-C118*C238 -C118*C239 -C129*C249 -C129*C249 -cumprudust formulas are used in m	+0118*0238 +0119*0239 +0129*0240	nH118'H238 nH119'H239 nH120'H240
4.7 8 CHRICK 4.7 9 tr JURD 4.8 0 macros 4.8 1 4.8 2 Total 4.8 2 Total 4.8 2 Total 4.8 2 Total 4.8 3 Total 4.8 4 (total or 4.8 5	-8114*8238 -8119*8239 -8120*8249 -8LMPRODUCT(871:8130,8191:8240) -8LMPRODUCT(871:8130,8191:8240) -8LMPRODUCT(871:8130,8191:8240)	-C118*C238 -C118*C239 -C129*C249 -C129*C249 -cumprudust formulas are used in m	+0118*0238 +0119*0239 +0129*0240	nH118'H238 nH119'H239 nH120'H240
47 0 CRUCK 47 9 4 JUL 48 0 HIGGE 48 1 48 1 48 2 Total 48 2 Total 48 2 Total 48 3 Gd Tot 48 4 48 4 48 4 48 7	+6114*8236 +6114*8239 +6120*8249 -8UMPRODUCT(871:8130,8191:8240) +8UM(8482:M482)	-C118*C238 -C118*C239 -C129*C249 -C129*C249 -cumprudust formulas are used in m	+0118*0238 +0119*0239 +0129*0240	nH118'H238 nH119'H239 nH120'H240
47 0 CTREX 47 9 1 JUNE 48 0 MACE 48 1 Total 48 2 Cel Total 48 2 Cel Total 48 2 Cel Total 48 2 Cel Total 48 5 48	-6116*8236 -8116*8239 -6120*8240 -SUMPRODUCT(871:8130,8191:8240) -SUM(8462:M462) Annual Environmental Sovinge	-C118*C238 -C118*C239 -C129*C249 -C129*C249 -cumprudust formulas are used in m	+0118*0238 +0119*0239 +0129*0240	nH118'H238 nH119'H239 nH120'H240
47 0 CRUCK 47 9 4 JUL 48 0 HIGGE 48 1 48 1 48 2 Total 48 2 Total 48 2 Total 48 3 Gd Tot 48 4 48 4 48 4 48 7	+6114*8236 +6114*8239 +6120*8249 -8UMPRODUCT(871:8130,8191:8240) +8UM(8482:M482)	-C118*C238 -C118*C239 -C129*C249 -C129*C249 -cumprudust formulas are used in m	+0118*0238 +0119*0239 +0129*0240	nH118'H238 nH119'H239 nH120'H240
47 B CTRCK 47 B M MIC 48 C MACTA 48 1 48 2 Tolas 48 2 Tolas 48 2 Tolas 48 2 Tolas 48 2 Tolas 48 2 Tolas 48 2 48 2	-5119*8235 -6119*829 -6129*8240 -SUMPACOUCT(871:8130,8191:8240) -SUMPACEMAL2) -Annual Environmental Serings In even tans (v84 -68711*8191	-C119*C238 -C119*C239 -C129*C249 -eusprodust formulas are used in re -BUMPRODUCT(C71*C120,C191*C240) -FV88 -SPF11*C191	-0119*0238 -0119*0239 -0129*0240 -6UMPRODUCT(071:0120.0191-0240) -4UMPRODUCT(071:0120.0191-0240)	-H116'H236 -H119'H239 -H120'H240 -SUMPRODUCT(H71 H120,H191 H240) -SUMPRODUCT(H71 H120,H191 H240) -SET 1'H191
42 B OTICK 47 B 1, 1992 48 O HACCH 48 1 48 2 Toka 48 2 Co Tat 48 2 48 2	-6114"8236 -6119"8259 -6120"8240 -6UM/840200000000000000000000000000000000000	-C118*C238 -C119*C239 -C129*C249 -cumprodust formulas are used in re -autorRCOUCT(C71*C120,C191*C240) - 	+0116*0238 +0116*0239 +0126*0240 +6UMPRODUCT(071:0120.0161-0240) *5 *5 *5 *5 *5 *5 *5 *5 *5 *5	
47 B CTRCK 47 B M MIC 48 C MACTA 48 1 48 2 Tolas 48 2 Tolas 48 2 Tolas 48 2 Tolas 48 2 Tolas 48 2 Tolas 48 2 48 2	-5119*8235 -6119*829 -6129*8240 -SUMPACOUCT(871:8130,8191:8240) -SUMPACEMAL2) -Annual Environmental Serings In even tans (v84 -68711*8191	-C119*C238 -C119*C239 -C129*C249 -eusprodust formulas are used in re -BUMPRODUCT(C71*C120,C191*C240) -FV88 -SPF11*C191	-0119*0238 -0119*0239 -0129*0240 -6UMPRODUCT(071:0120.0191-0240) -4UMPRODUCT(071:0120.0191-0240)	-H116'H236 -H119'H239 -H120'H240 -SUMPRODUCT(H71 H120,H191 H240) -SUMPRODUCT(H71 H120,H191 H240) -SET 1'H191
12.0 CHARTS 17.0 CHARTS 18.C BACCOL 18.C BACCOL 18.C BACCOL 18.C BACCOL 18.C CHARTS 18.C CHARTS 18.C CHARTS 18.C CHARTS 19.C	-6114"8236 -6119"8239 -6120"8240 -6UM/8402UCT(871:8120.8191:8240) -6UM/8402:M402) Annual Environmental Serings in even tens (v94 -6F11"8191 -6F11"8192 -6F11"8192 -6F11"8192 -6F11"8192 -6F11"8192 -6F11"8193 -6F14"8196 -6F11"8196 -6F11"8196 -6F11"8196 -6F11"8198 -6F11"8198 -6F11"8198 -6F11"8198 -6F11"8198 -6F11"8198 -6F11"8198 -6F11"8198 -6F11"8198 -6F11"8198 -6F11"8198 -6F11"8198 -6F11"8198 -6F11"8198 -6F11"8198 -6F11"8198 -6F11"8198 -6F11"8198 -6F11"8198 -6F11"8198 -6F11"8198 -6F11"8198 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F11"81 -6F	-C118*C238 -C119*C239 -C119*C249 -cumprodust formulas are used in m -auth/RCOUCT(C71*C120,C191*C240) 	-0119*0238 -0119*0239 -0129*0240 -6UMPRODUCT(071:0120.0191:0240) -6UMPRODUCT(071:0120.0191:0240) -6UMPRODUCT(071:0120.0191:0240) -6F1070191 -6F1070191 -6F1070191 -6F1070191	
17.8         CHARGE           17.7         CHARGE           14.7         CHARGE           14.0         CHARGE           18.1         CHARGE           18.1         CHARGE           18.2         CHARGE           18.2         CHARGE           18.2         CHARGE           18.3         CHARGE           18.4         CHARGE           18.7         CHARGE           18.7         CHARGE           18.7         CHARGE           18.7         CHARGE           18.7         CHARGE           19.7         CHARGE	-\$119*8238 -8119*8238 -8119*8299 -8120*8240 -8UM/B482M4421 -8UM/B482M4421 -9UM/B482M4421 -9UM/B482M4421 -9UM/B482M4421 -9UM/B482M4421 -9UM/B482M4421 -9UM/B482M4421 -8F14*8193 -8F14*8193 -8F14*8193 -8F14*8194 -8F14*8194	-C119*C238 -C119*C239 -C139*C240 -exemptedust formulas are used in re -BUMPRODUCT(C71*C120,C191*C240) -BUMPRODUCT(C71*C120,C191*C240) -BUMPRODUCT(C71*C120,C191*C240) -BUMPRODUCT(C71*C120,C191*C240) -BUMPRODUCT(C71*C120,C191*C240) -BUMPRODUCT(C71*C120,C191*C240) -BUMPRODUCT(C71*C120,C191*C240) -BUMPRODUCT(C71*C120,C191*C240) -BUMPRODUCT(C71*C120,C191*C240) -BUMPRODUCT(C71*C120,C191*C240) -BUMPRODUCT(C71*C120,C191*C240) -BUMPRODUCT(C71*C120,C191*C240) -BUMPRODUCT(C71*C120,C191*C240) -BUMPRODUCT(C71*C120,C191*C240) -BUMPRODUCT(C71*C120,C191*C240) -BUMPRODUCT(C71*C120,C191*C240) -BUMPRODUCT(C71*C120,C191*C240) -BUMPRODUCT(C71*C120,C191*C240) -BUMPRODUCT(C71*C120,C191*C240) -BUMPRODUCT(C71*C120,C191*C240) -BUMPRODUCT(C71*C120,C191*C240) -BUMPRODUCT(C71*C120,C191*C240) -BUMPRODUCT(C71*C120,C191*C240)	-0119*0238 -0119*0239 -0129*0240 -6UMPRODUCT(071:0120.0191-0240) -6UMPRODUCT(071:0120.0191-0240) -6F11*0191 -6F12*0192 -6F12*0193 -6F12*0193 -6F12*0195 -6F12*0196	нт 16 H 236 нт 19 H 236 нт 20 H 240 - SUMPRODUCT(H71 H 120,H 191 H 240) - SUMPRODUCT(H71 H 190,H 191 H 240) - SUMPRODUCT(H71 H 191 H 2
12.0 CHARTS 17.0 CHARTS 18.C BACCOL 18.C BACCOL 18.C BACCOL 18.C BACCOL 18.C CHARTS 18.C CHARTS 18.C CHARTS 18.C CHARTS 19.C	-6114"8236 -6119"8239 -6120"8240 -6UM/8402:M482) Annual Environmental Sevings in even tens (v94 -6F11"8191 -6F11"8192 -6F12"8192 -6F12"8193 -6F14"8196 -6F12"8195	-C118*C238 -C119*C239 -C119*C249 -cumprodust formulas are used in m -auth/RCOUCT(C71*C120,C191*C240) 	-0119*0238 -0119*0239 -0129*0240 -6UMPRODUCT(071:0120.0191:0240) -6UMPRODUCT(071:0120.0191:0240) -6UMPRODUCT(071:0120.0191:0240) -6F1070191 -6F1070191 -6F1070191 -6F1070191	-H118'H238 -H119'H239 -H120'H240 -SUMPRODUCT(H71 H120,H191 H240) -SUMPRODUCT(H71 H170,H191 H240
12 B CHUCK 17 B CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14 CHUCK 14	-\$119*8238 -\$19*829 -\$19*829 -\$19*829 -\$19*829 -\$19*829 -\$19*829 -\$19*829 -\$19*829 -\$19*829 -\$19*829 -\$19*829 -\$19*829 -\$19*829 -\$19*829 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12.8         CHARGE           17.7         CHARGE           14.7         CHARGE           14.0         ALECOL           14.1         CHARGE           14.2         CHARGE           14.2 <th>-51479235 -611578240 -612078240 -612078240 -612078240 -612078240 -612078240 -614078240 -614078240 -614084624442) Annual Environmental Sovinge is even tame //14 -61478191 -61478195 -61478195 -61478196 -61478196 -61478196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -614819</th> <th>-C119-C238 -C119-C239 -C129-C240 cumproduct formulas are used in re -BUMPRODUCT(C71-C120,C191:C240) - - - - - - - - - - - - -</th> <th>-0119*0238 -0119*0239 -0129*0240 -6UMPRODUCT(071*0120.0191*0240) -6UMPRODUCT(071*0120.0191*0240) -6F19*0192 -6F19*0192 -6F19*0192 -6F19*0193 -6F19*0195 -6F19*0195 -6F19*0199 -6F19*0199 -6F29*0200 -6F29*0203</th> <th>-H118'H238 -H119'H239 -H120'H240 -SUMPRODUCT(H71 H120,H191 H240) -SUMPRODUCT(H71 H120,H191 H240) -SET 12'H191 -SET 12'H191 -SET 12'H193 -SET 12'H193 -SET 12'H193 -SET 12'H195 -SET 12'H195</th>	-51479235 -611578240 -612078240 -612078240 -612078240 -612078240 -612078240 -614078240 -614078240 -614084624442) Annual Environmental Sovinge is even tame //14 -61478191 -61478195 -61478195 -61478196 -61478196 -61478196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -6148196 -614819	-C119-C238 -C119-C239 -C129-C240 cumproduct formulas are used in re -BUMPRODUCT(C71-C120,C191:C240) - - - - - - - - - - - - -	-0119*0238 -0119*0239 -0129*0240 -6UMPRODUCT(071*0120.0191*0240) -6UMPRODUCT(071*0120.0191*0240) -6F19*0192 -6F19*0192 -6F19*0192 -6F19*0193 -6F19*0195 -6F19*0195 -6F19*0199 -6F19*0199 -6F29*0200 -6F29*0203	-H118'H238 -H119'H239 -H120'H240 -SUMPRODUCT(H71 H120,H191 H240) -SUMPRODUCT(H71 H120,H191 H240) -SET 12'H191 -SET 12'H191 -SET 12'H193 -SET 12'H193 -SET 12'H193 -SET 12'H195 -SET 12'H195
17.2         CHARGE           17.2         CHARGE           14.0         CHARGE           14.0         CHARGE           14.0         CHARGE           14.1         CHARGE           14.2         CHARGE           15.2         CHARGE           16.1         CHARGE           16.2         CHARGE           16.4 <th>-\$119"8235 -\$119"8255 -\$120"8240 -\$LMAPROCUCT(871:8130,8191:8240) -\$LMAPASEM4422) Annual Environmental Savings In anet tans </th> <th>-C115*C235 -C119*C239 -C139*C240 -C139*C240 -C139*C240 -C139*C240 -C139*C240 -C139*C240 -C139*C2191 -C139*C2191 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 -C139*C2192 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17.2         CHACK           17.2         CHACK           14.2         CHACK           18.1         CHACK           18.1         CHACK           18.1         CHACK           18.2         CHACK           18.2         CHACK           18.2         CHACK           18.2         CHACK           18.2         CHACK           18.2         CHACK           18.3         CHACK           18.4         CHACK           19.2         CHACK           11.2         CHACK           12.2         CHACK           13.2         CHACK           14.2         CHACK           15.2         CHACK           16.2         CHACK           16.3         CHACK           16.4         CHACK           16.4         CHACK           16.4         CHACK </th <th>-\$119"823 -\$119"823 -\$129"8240 -\$129"8240 -\$109"8240 -\$109"8240 -\$109"8240 -\$109"8240 -\$109"8240 -\$109"8240 -\$109"8240 -\$109"824 -\$109"825 -\$109"825 -\$109"825 -\$109"825 -\$109"825 -\$109"825 -\$109"825 -\$109"825 -\$109"825 -\$109"825 -\$109"825 -\$109"825 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11         CHARGE           17         TV, NUC.           14         CHARCEL           15         CHARCEL           16         CHARCEL </th <th>-51479235 -611578240 -612078240 -612078240 -612078240 -612078240 -612078240 -612078240 -612078240 -612078240 -612078240 -61207824 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -612</th> <th>-C119*C238 -C119*C239 -C139*C240 examprodust formulas are used in re -BUMPRODUGT(G71*C120,C191*C240) </th> <th>-0119*0238 -0119*0239 -0129*0240 -6UMPRODUCT(071:0120.0191:0240) -6UMPRODUCT(071:0120.0191:0240) -6F11*0191 -6F12*0192 -6F11*0191 -6F12*0192 -6F12*0193 -6F12*0193 -6F12*0195 -6F22*0200 -6F22*0200 -6F22*0205 -6F22*0205 -6F22*0205 -6F22*0205 -6F22*0205 -6F22*0205</th> <th>-H118'H238 H119'H239 H120'H240 -SUMPRODUCT(H71 H120,H191 H240) -SUMPRODUCT(H71 H120,H191 H240)</th>	-51479235 -611578240 -612078240 -612078240 -612078240 -612078240 -612078240 -612078240 -612078240 -612078240 -612078240 -61207824 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -612	-C119*C238 -C119*C239 -C139*C240 examprodust formulas are used in re -BUMPRODUGT(G71*C120,C191*C240) 	-0119*0238 -0119*0239 -0129*0240 -6UMPRODUCT(071:0120.0191:0240) -6UMPRODUCT(071:0120.0191:0240) -6F11*0191 -6F12*0192 -6F11*0191 -6F12*0192 -6F12*0193 -6F12*0193 -6F12*0195 -6F22*0200 -6F22*0200 -6F22*0205 -6F22*0205 -6F22*0205 -6F22*0205 -6F22*0205 -6F22*0205	-H118'H238 H119'H239 H120'H240 -SUMPRODUCT(H71 H120,H191 H240) -SUMPRODUCT(H71 H120,H191 H240)
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17 1 (V. 100) 17 2 (V. 100) 14 C JACCOL 14	-51479235 -511578259 -612078240 -612078240 -612078240 -612078240 -612078240 -612078240 -612078240 -612078240 -612078240 -61207824 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -6120784 -612	-C119-C239 -C119-C239 -C119-C240 cumproduct formulas are used in re -BUMPRODUCT(C71-C120,C191:C240) -SF1-C192 -SF11-C191 -SF12-C192 -SF13-C192 -SF13-C192 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195 -SF13-C195	-0119*0238 -0119*0239 -0119*0239 -0129*0240 -6UMPRODUCT(071*0120.0191*0240) -6UMPRODUCT(071*0120.0191*0240) -6F19*0192 -6F19*0192 -6F19*0192 -6F19*0195 -6F19*0195 -6F19*0195 -6F19*0195 -6F19*0195 -6F19*0200 -6F29*0200 -6F29*0200 -6F29*0200 -6F29*0200 -6F29*0200 -6F29*0200 -6F29*0200 -6F29*0200 -6F29*0200 -6F29*0200 -6F29*0200 -6F29*0200 -6F39*0200 -6F39*0200 -6F39*0200 -6F39*0210 -6F39*0210 -6F39*0210	-H116'H236 H119'H239 H120'H340 -SUMPRODUCT(H71 H120,H191 H240) -SUMPRODUCT(H71 H190 -SUMPRODUCT(H71 H190 -SUMPRODUC
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17.2         CHARGE           17.2         CHARGE           14.2         CHARGE           15.2         CHARGE           16.3         CHARGE           16.4         CHARGE           16.2         CHARGE           16.2         CHARGE           16.3         CHARGE           16.4         CHARGE           16.2         CHARGE           16.2 <th>-\$1470325 -\$11578250 -\$12078240 -\$12078240 -\$12078240 -\$12078240 -\$12078240 -\$12078240 -\$12078240 -\$12078240 -\$12078240 -\$120782 -\$120782 -\$120782 -\$120782 -\$120782 -\$120782 -\$120782 -\$120782 -\$120782 -\$120782 -\$120782 -\$120782 -\$120782 -\$120782 -\$120782 -\$120782 -\$120782 -\$120782 -\$120782 -\$120782 -\$120782 -\$120782 -\$120782 -\$120782 -\$120782 -\$120782 -\$120782 -\$120782 -\$120782 -\$120782 -\$120782 -\$120782 -\$120782 -\$120782 -\$120782 -\$120782 -\$120782 -\$120782 -\$120782 -\$120782 -\$120782 -\$120782 -\$120782 -\$120782 -\$120782 -\$120782 -\$120782 -\$120782 -\$120782 -\$120782 -\$120782 -\$120782 -\$120782 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17.0 GROUP 17.2 GROUP 14.2 G	-\$115"8235 -\$115"829 -\$125"8240 -\$LMPPGOUCT(871:8130,8191:8240) -\$UMPB482M442) AARudd Environmental Sevings In stat sam /rdf -\$F15"819 -\$F15"8193 -\$F15"8193 -\$F15"8193 -\$F15"8195 -\$F15"8195 -\$F15"8195 -\$F15"8196 -\$F15"8196 -\$F15"8196 -\$F15"8196 -\$F15"8196 -\$F15"801 -\$F25"8203 -\$F25"8203 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8205 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8205 -\$F25"8205 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25880 -\$F25880 -\$F25880 -\$F25880 -\$F25880 -\$F2588	-C119*C239 -C119*C239 -C119*C239 -C119*C240 	-0119*0238 -0119*0239 -0129*0240 -4UMPRODUCT(071*0120.0191*0240) -4UMPRODUCT(071*0120.0191*0240) -4UMPRODUCT(071*0120.0191*0240) -4UMPRODUCT(071*0120.0191*0240) -4UMPRODUCT(071*0120.0191*0240) -4UMPRODUCT(071*0120.0191*0240) -4UMPRODUCT(071*0120.0191*0240) -4UMPRODUCT(071*0120.0191*0240) -4UMPRODUCT(071*0120.0191*0240) -4UMPRODUCT(071*0120.0191*0240) -4UMPRODUCT(071*0120.0191*0240) -4UMPRODUCT(071*0120.0191*0240) -4UMPRODUCT(071*0120.0191*0240) -4UMPRODUCT(071*0120.0191*0240) -4UMPRODUCT(071*0120.0191*0240) -4UMPRODUCT(071*0120.0191*0240) -4UMPRODUCT(071*0120.0191*0240) -4UMPRODUCT(071*0120.0191*0240) -4UMPRODUCT(071*0120.0191*0240) -4UMPRODUCT(071*0120.0191*0240) -4UMPRODUCT(071*0120.0191*0240) -4UMPRODUCT(071*0120.0191*0240) -4UMPRODUCT(071*0120.0191*0240) -4UMPRODUCT(071*0120.0191*0240) -4UMPRODUCT(071*0120.0191*0240) -4UMPRODUCT(071*0120.0191*0240) -4UMPRODUCT(071*0120.0191*0240) -4UMPRODUCT(071*0120.0191*0240) -4UMPRODUCT(071*0120.0191*0240) -4UMPRODUCT(071*0120.0191*0240) -4UMPRODUCT(071*0120.0191*0240) -4UMPRODUCT(071*0120.0191*0240) -4UMPRODUCT(071*0120.0191*0240) -4UMPRODUCT(071*0120.0191*0240) -4UMPRODUCT(071*0120.0191*0240) -4UMPRODUCT(071*0120.0191*0240) -4UMPRODUCT(071*0120.0191*0240) -4UMPRODUCT(071*0120.0191*0240) -4UMPRODUCT(071*0120.0191*0240) -4UMPRODUCT(071*0120.0191*0240) -4UMPRODUCT(071*0120.0191*0240) -4UMPRODUCT(071*0120.0191*0240) -4UMPRODUCT(071*0120.0191*0240) -4UMPRODUCT(071*0120.0191*0240) -4UMPRODUCT(071*0120.0191*0240) -4UMPRODUCT(071*0120.0191*0240) -4UMPRODUCT(071*0120.0191*0240) -4UMPRODUCT(071*0120.0191*0240) -4UMPRODUCT(071*0120.0191*0240) -4UMPRODUCT(071*0120.0191*0240) -4UMPRODUCT(071*0120.0191*0240) -4UMPRODUCT(071*0120.0191*0240) -4UMPRODUCT(071*020000000000000000000000000000000000	-H116'H236 H119'H230 -6UMPRODUCT(H71 H120,H191 H240) -6UMPRODUCT(H71 H120,H191 H240) -6UMPRODUCT(H71 H120,H191 H240) -60
17 2 (V. 1000 17 2 (V. 1000 14 0 (J. 1000) 14 0 (J. 1000)	-\$115"8235 -\$115"829 -\$125"8240 -\$LMPPGOUCT(871:8130,8191:8240) -\$UMPB482M442) AARudd Environmental Sevings In stat sam /rdf -\$F15"819 -\$F15"8193 -\$F15"8193 -\$F15"8193 -\$F15"8195 -\$F15"8195 -\$F15"8195 -\$F15"8196 -\$F15"8196 -\$F15"8196 -\$F15"8196 -\$F15"8196 -\$F15"801 -\$F25"8203 -\$F25"8203 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8205 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8205 -\$F25"8205 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25"8204 -\$F25880 -\$F25880 -\$F25880 -\$F25880 -\$F25880 -\$F2588	C119*C239 C119*C239 C139*C240 cumprudust formulas are used in re aLMMPRODUGT(G71*C120,C191*C240) fv91 c4F1*C191 c4F1*C192 c4F1*C192 c4F1*C192 c4F1*C193 c4F1*C193 c4F1*C193 c4F1*C194 c4F1*C194 c4F1*C195 c4F1*C196 c4F1*C196 c4F1*C196 c4F1*C196 c4F1*C290 c4F2*C203 c4F2*C203 c4F2*C204 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205 c4F2*C205	-0119*0238 -0119*0239 -0129*0240 -6UMPRODUCT(071*0120.0191*0240) -6UMPRODUCT(071*0120.0191*0240) -6F19*0191 -6F19*0192 -6F19*0192 -6F19*0193 -6F19*0193 -6F19*0195 -6F19*0195 -6F19*0195 -6F19*0195 -6F19*0195 -6F19*0200 -6F29*0200 -6F29*0200 -6F29*0205 -6F29*0205 -6F29*0205 -6F29*0205 -6F29*0205 -6F29*0205 -6F29*0205 -6F29*0205 -6F29*0205 -6F29*0205 -6F29*0215 -6F39*0215 -6F39*0215 -6F39*0215 -6F39*0215 -6F39*0215 -6F39*0215 -6F39*0215 -6F39*0215 -6F39*0215 -6F39*0215 -6F39*0215 -6F39*0215 -6F39*0215 -6F39*0215 -6F39*0215 -6F39*0215 -6F39*0215 -6F39*0215 -6F39*0215 -6F39*0215 -6F39*0215 -6F39*0215 -6F39*0215 -6F39*0215	-H116'H236 H119'H239 H120'H240 -SUMPRODUCT(H71 H120,H191 H240) -SUMPRODUCT(H71 H120,H191 H240)
17.0 CHARGE 17.2 CHARGE 17.2 CHARGE 14.2	-\$115"8235 -\$115"829 -\$125"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"8240 -\$126"840 -\$126"840 -\$126"840 -\$126"840 -\$126"840 -\$126"840 -\$126"840 -\$126"840 -\$126"840 -\$126"840	C115"C235 C119"C239 C139"C240 CUMPRODUCT(C71"C120.C191"C240) C400"C00UCT(C71"C120.C191"C240) C40"C100"C191 C40"C191 C40"C191 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40"C192 C40	-0119*0238 -0119*0239 -0129*0240 -4UMPRODUCT(071:0120.0191-0240) -4UMPRODUCT(071:0120.0191-0240) -4F13*0192 -4F13*0192 -4F13*0193 -4F13*0193 -4F13*0193 -4F13*0193 -4F13*0193 -4F13*0193 -4F13*0194 -4F13*02194 -4F13*0200 -4F23*0200 -4F23*0200 -4F23*0201 -4F23*0200 -4F23*0200 -4F23*0200 -4F23*0200 -4F23*0200 -4F23*0200 -4F23*0200 -4F23*0200 -4F23*0200 -4F23*0200 -4F23*0200 -4F23*0200 -4F23*0200 -4F33*0210 -4F33*0210 -4F33*0210 -4F33*0210 -4F33*0210 -4F33*0210 -4F33*0210 -4F33*0210 -4F33*0210	-H116'H236 H119'H239 H120'H240 -SUMPRODUCT(H71 H120,H191 H240) -SUMPRODUCT(H71 H120,H191 H240)
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## Table E-2. Core ECO Spreadsheet - Formula View(page 7 of 8 pages)

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	=6F43*8223 =6F44*8224	+4F43'C223	*6F43*0223 *6F44*0224	"\$F43'H223 "\$F44'H224
	-8746-8225	-4F46'C225	+5F45"0225	
	-4746-8225	-1/44*C225	-5/44-0225	
	+#F47* 8227	+4F47*C227	***********	a\$F47*14227
12 BURNEY	-4744-8228	~\$#44°C228	-6748"0226	-\$F48****228
	-6749-8229	-6F40*C229	-6749"0229	-5749714229
	-8/10*8230	-4F80*C230	+\$F50°0230	-5/50*11230
11 mare		-6/61*C231 -6/18*C232	-4F41*D231	J\$F\$1"H231
112 CHECK	•#F62*8228	•\$F\$3*C233	-4F12*D232 -4F13*D233	-4F52"11232 -4F53"11233
	«8F\$4"\$\$34	*\$P\$4*C234	a4F64*0234	**F\$4*M234
SI S AMOUNT	-5755-8235	-4F45*C235	+4F45'0236	*6758"M235
11.C PRODUCT		-8F66*C236	-4/64"0230	-SF66"H238
117 MANE		=5#67*C237	*4767*0237	-\$F\$7*H237
L1 DINGER	~##\$ <b>4*823</b> 8	-1F68*C238	~\$F\$8*0238	< 4F58*H238
AANY MOD		-4F69*C239	-SF10"0239	-\$F\$8*H239
SAOLENCE.	4\$ <b>F6</b> Q* <b>0</b> 24Q	-\$F60°C240 sumproduct formulae are used in n	*\$F00"D240	=\$ <b>F6</b> 0*14240
841 842 Total	ABLIMPRODUCT(#F11:SP80.8191:8240)	-BUMPRODUCT(\$F11:5F80.C181:C240)		
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	0	+100-012	-8682-0562/100	ļ
	0	+100-013	=8663*C363/100	
		+100-014	=8564*C\$64/100	
	0	• 100-G18 ·	-8868*C365/100	
	8	+100-017	=#157*C\$47/100	
	0	-100-G18		
119 units (	0	+100-019	-4549*C568/100	
	0	+100-620	#870*C870/100	1
	0	=100-G21	##671*C\$71/100	
	9	= 100-G22 = 100-G23	-8372*C572/100	
	0	=100-324	-8873*C873/100 -8874*C874/100	
	8	-100-025	-8578*C\$75/100	
	0	-100-026	-8478*C576/100	
	9	+100-027	+8477*G577/100	1
111 2000	-	+100-028	-8578*C578/100	
	•	+100-029	-8579*C576/100	
	0	= 106-030 = 106-031	-848110581/100	
	9	= 100-C32	-8581*C381/100 -8562*C382/100	
	0	-100-033	-4583-CE83/100	·
	0	= 100-034	-8584*C584/100	
	0	-100-038	-8668*C385/100	
	0	-100-036	-8586"C\$86/100	
	0 6	-109-037	+6887*C387/100	
	9 0	* 100-038 * 100-039	-8568*C586/100	
	-	= 108-040	#8887-C388/100	1
SIL UNION			-4891*6591/100	1
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114 -		-C194*58844/100	-0184-38664/109	
12.5 P_0804	-8196"\$8568/100	-C108*58558/100	-0195*58565/109	
1107-000	=8196"\$8866/100 =8197"\$8867/100	-C196*58566/100 -C197*58567/100	-0196"38868/109 -0197"\$8667/100	nH196*\$8844/100 nH197*\$8847/100
12 1 THE	-8198"\$8668/100	-C198*58866/100	-0196*S8664/100	-H198"SB562/100
115 LINES	-8198"\$856#/100	-0199-18668/100	+D199*58668/100	-H199"38869/100
610 HOLDY	+6200*18570/100 +6251*18571/100	=C200*\$\$\$70/100 +C201*\$\$\$71/100	«C200°\$8870/100 «C201°\$8871/100	+H207"SB570/100
431 HURHER	*#202*58672/100	-C202*\$2572/100	40202*58672/100	=H201*\$8\$71/100 =H202*\$8572/100
113 77.00	-8203*58873/100	-C203*\$8873/100	-0203*\$8673/100	*H203"58\$73/100
414P,302	-8204*\$8574/100 +8205*\$8575/100	-C204*58874/100 -C208*58875/100		-H204"SBE74/100
	*#205*58574/100	-C204*18576/100	~0204*\$8876/100 ~0204*\$8876/100	=H205"3#875/100 =H206"3#876/100
117 STATE	-4207*\$8677/100	+C207*\$8477/100	-0207*\$8877/100	-H207"\$8677/100
	-4208*\$8574/100	-C208"3887#/100	-0200*\$587\$/100	-H208'\$\$\$78/100
	-8209*\$8574/100 -8210*\$8580/100	+C209*58876/100 +C210*58866/100	*0209*58675/100 *0210*58646/190	n#209*58879/100 n#210*58860/100
1411	-6211*\$8581/100	+C211*58481/100	-OR11'SB661/100	*HE11'SB681/100
	-8212-20582/100	-C212*38448/100	+0212*58668/109	H212"SB582/100
14 1 HIRON	+#213*\$#5#3/100 ##214*385#4/100	-C213*\$8#83/109 +C214*\$8#84/109	+0213"\$8683/100 +0214"\$8684/109	•M213*58583/100 •H214*58584/100
44 S 7, NER	-BR18"SBALL 100	+C218*58586/100	-0215"58568/100	#H215"58585/100
	*#216*\$8554100	+C216*58666/100	-0216"\$8686/100	-HE16"SB886/100
44 T PT (187	**#31 <b>7*\$858?/100</b> **#\$1 <b>#*\$8684/100</b>	+C217*58887/100 +C218*58888/100	-0217*\$8547/100 -0216*\$8586/100	=H217"3#587/100 =H218"5#588/100
1 9 P. Site		+C219*58888/100	-0214-185664190	-4218"58688/100
	-9720*18590/100	+C220'\$8690/100	+O220"38800/100	
	-6221*38501/100	+C221*59591/100 +C222*59592/100	~0221*\$8581/100 ~0222*\$8582/100	=H221*\$\$\$\$1/100 =H222*\$\$\$\$92/100
SES YOR S	-6223*58583/100	+C223*\$8883/100	+0223"\$8553/100	-H223-\$8693/100
	-8224"58594/100	=C224*\$8###4/100 =C225*\$#####/100	-0224"\$8594/100	-H224*S#\$94/100
1111 HILD JH	-6226"36504/100	+C226'58566/100	-0225*\$5555(100 -0226*\$5556(100	•H225"\$\$\$\$5/100 •H226"\$\$\$\$\$4/100
STT TOTAL	-8127*18197/100	-C227"58697/100	-0227*58667/108	-11227*58887/100
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	-6230"\$6600/100	-C230*\$8400/100	+0230"18400/100	«M230"38600/100
		-G231"\$8401/100	+O231*\$8601/100	-#231*28401/100
	-8132*\$\$402/100 -8133*\$\$603/100	-C232*\$8402/100 -C233*\$8403/100	+0232*\$8492/109 +0232*\$8492/109	=++232*\$\$\$602/100 =++232*\$\$\$603/100
A A MUNT	-6834*88604/100	=C234"58804/100	*0234*\$8604/100	e#233'5 8604/100
LL I AMERICA	-6235"\$5605/100	-C235"\$8605/100	-0235"1806/100	MI235"58605/100
	+8236*\$5404/100 -+8237*\$5407/100	=C236"\$8606/100 =C237"\$8607/100	~0234* <b>18404</b> /100 ~0237* <b>1846</b> 7/100	44235*\$2505/130 44237*3E307/190
	«6236"18606/100	-C238"\$8404/100	-0238*\$8668/100	eM\$21-25301100
A & PIN HUD	+6238*18600/100	-C239"38409/100	-0239-18608/100	NH239155660W100
67.0 HACTE	+6240*38610/109	+C240*\$\$\$10/100	-0240*38410/100	H240'58610/100
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# Table E-2.Core ECO Spreadsheet - Formula View<br/>(page 8 of 8 pages)

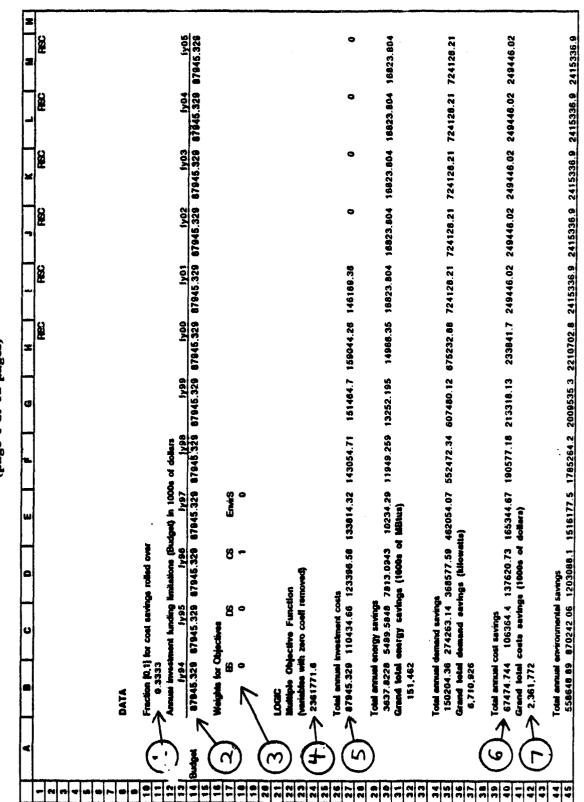


 Table E-3. Core Main (Linking) Spreadsheet - Value View (page 1 of 12 pages)

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 Table E-3.
 Core Main (Linking) Spreadsheet - Value View (page 2 of 12 pages)

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	٥	atal serings	ge rolled over		123396.58				4.225-45	redeheds)	nt contra by E(	py across) from	11025		430.8075		7551.2827	3685.1469	0	541.105	994.755	1578.87	1832.515		2436.1				2897.575		287.03657	•	9179.37	•		1340.597		1605.945	
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	•	Grand Total 22,230,343	Annual * "Age + cont an	104		Enforcement		ž	<b>9.969E</b> .05	LINKS Plate to other	Total annual	Adam par ap)	119 61966	12073.58	1215.06	1400.68	1186.1961	3146.3322	•	1373.6325	•		Ö '	-					891.23293	0	•	0	9608.4	•	•				794.105
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CAA-SR-93-7

Table E-3. Core Main (Linking) Spreadsheet - Value View (page 3 of 12 pages)

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        59.52341         186.52324         189.5325           170.76971         285.14101         285.14101         285.24.2960         0         0           170.76971         285.14291         138.5524         59.52076         57.520776         57.520776         57.520776           170	495.6         10.96         184         0         1555.3162         983.67247           0         750.36371         0         1555.3162         983.67247           0         750.36371         0         1555.3162         983.67247           0         750.36371         0         1555.3162         983.67247           0         750.35371         0         1555.3162         983.67247           0         750.35371         0         1555.3162         983.67247           0         750.35371         0         1555.3162         983.67247           1333.2235         1491.1841         1534.4291         1594.4291         199.4291           1383.2235         1491.1841         1534.4291         1594.4291         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Table E-3. Core Main (Linking) Spreadsheet - Value View (page 4 of 12 pages)

NEV.

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130FM GSHP	0	•	0	0	0	0	0	0	•	0	¢	G	Ľ
130FIS RUE	•	12.020598	104.75423	167.67616	193.71295	261.3271	251.3271	251.3271	251.3271	251.3271	251.3271	251 3271 F15	L I I
LACK NIT	20101 102		1017 1077	1017 1017	1017 1071		1201 2301						
					11011101			1011.181	1/81./101	1011.18/1	11.1.1.1.1	11417101	
WACH / / / I T		0	0	0	Ģ	0	•	19.284879	18.294929	19.284929	19.264929	10.284929	F17
142FIG BICS	19789481	23.093383	141.15154	279.03979	461 18124	688.49155	1639.0759	2194.5674	2194.5674	2194.5674	2194.5674	2194.5674 F18	F18
143 FIG CHP	•	0	0	23.123561	35.80667	-31.8862	-43.59763	-41.64367	-41.64367	-41.64367	-41.64367	-41.64367	FID
144FX RADBR	-	C	3 3310982	3 3310082	16 330018	21 720441	63 OCR788	87 854925	R7 R54825	67 854895	R7 854825	ET BEARTE	5
									199459.19				
The Long		2	3	9	8.4040QA	10.45/169	16.240879	32.899467	32.888467	32.895467	32.899467	32.899467	12
11112 ROOF	5.1220348	13.20474	17.087961	21.183652	25.514586	26-018494	28.273764	29.020836	29.020836	29.020836	29.020636	29.020836	F22
117 F23 ENSI	0	0	G	c	•	0	•	0	0	0	•	0	F23
148F2 BES	•	0	0	23.616446	67.1182	105.63746	163.63416	250.17571	250.17571	250.17571	250.17571	250.17571F24	534
TANK CHAN		302516 01	70 480305	105 20123	194 02710	160 60001	103 3157	100 50005	100 0005	100 5006	100 0000		
										COMED-DES	conto net	00000.001	
					<b>-</b>	יכ	2	2	•	0	3	•	20
1011-12-11-11		47.81117	117.68665	136.18:361	187.24862	224.80685	226.62059	236.47093	236.67093	236.67093	236.67093	238.67093 F27	F27
162F28 WICHA	129.83608	155.97187	155.97187	158.01844	158.01844	156.01844	156.01844	150.01844	156.01844	156.C1844	156.01844	156.01844	F28
163 F26 HAP	•	1.9479924	1.9479924	43.092907	43.092997	43.092997	43.002997	101003101	44.093101	44.093101	44.093101	44.093101	F29
· SAFE SHEST	296.02455	296.02455	296.02455	296.02455	296.02455	296.02455	256.02455	296, 32455	296.02455	296.02455	296.02455	286.02455	F.30
tool A HEST	244.20065	244.20985	244.20985	244.20985	244.26985	244.20985	244.20985	244.20985	244.20985	244.20985	244 20985	244 20985 F31	Ē
166FER DESUP	12,064268	245.62009	553.22267	759,69334	909.93639	1078 578	1109 3552	1109 5928	1109 5928	1100 5028	1109 5928	1100 5023 E32	5
157 FEB HANH	C	a	1.4850754	1 4850754	12 927219	10 007010	12 027210	12 927219	12 022210	10 037350	12 027310	10 01010100 CT	5
TEALEN TRANE			C							812120.21	813/38.31	817/78.71	3
	975 T0194	10105 376	975 70194	ATE 70194	016 10101	016 10101	A TOTOL TO						5
	210'-B12		1710/017	+2101.012	12101.012	210.014	2101.612	2/01/01/24	2/0./0124	2/0/.0/24	275.70124	275.70124 F35	135
		01000.100	9/000./00	9/050.795	8/909-190	2/000.200	361.63678	367.63678	387.63678	387.63678	387.63678	387.63678 F36	536
			0	0	0	0	0	0		5	0	0	F37
3744 BA 201		3	•	•	0	•	9.5890611	48.666519	48.565512	48.565519	48.665510	48.555519	F36
163 F30 MICON	550.07622	SE 1.90097	919.21192	318.21192	919.21192	944.58882	944.58682	958.22684	958.22684	956.22634	958.22684	958.22684	F39
ICALTO SOLS	•	9	35.77644	50.017038	117.67502	195.5314	285.57297	380.76396	380.76396	360.76336	380.76396	380.76396	F40
198 FEI SOLWH	•	•	0	1.7621051	1.7621051	34.424669	34.424669	34.424669	34.424669	34.424669	34.424669	34.424669	F.F.
166 F42_SOLM	°	•	•	0	15.322012	45.849512	86.377484	161.47295	161.47295	161.47295	181.47295	181 47295	572
167 FA3_SOLMB	•	0	0	G	0	0	0	72.992647	72.992647	72.992647	72 992847	72 992647	E.
160 FM RFNG	•	2.353699	6.GOP289	14.900068	31.31955	39.621662	44.001448	59.347663	59 347663	58 347663	50 347863	50 347665	
169 FIS ECONP	ت	•	0	Ċ	0	a	0	0	2	G			, v
170 FAC EN	<u>د</u>	0	0	o	0	C	G					<b>,</b>	
171 F47 DOONP	0	C	683 25056	1872 2124	2612 047	2731 76A	4040 1132	1111 604					
172 FLO WITPE			19 804007	2317 CT			100 10101	108.111		400-4114	4114.204	4114.804 -47	Ì
					CA110-372	10818.00	CO/CI .881	21969.412	2/4-55612	274.85812	274.85612	274.65612	2 2 2
	31.90020		18018-192	316.93632	440.65582	483.32242	483.32242	499 16125	453,10125	499.10125	499.10125	499.10125	F49
	D/.204043		246.93916	270.24283	270.8491	279.6914	279.6914	279.6314	279.6914	279.6914	279.6914	279.6914 F50	F50
	18.664785	52 44045	89.50132	88.098239	88.295879	91.176436	91.178438	<b>91.178438</b>	91.178438	91.178438	01.178438	91.178438 F51	FS
Trefex SVSU	0	0	0	0	0	5.0050012	5.0050012	10.615806	10.615806	10.615806	10.615806	10 615806 FC2	5
ITTER WSD	•	0	0	•	3.0030007	3.0030007	9.6584844	13.613489	13.613489	13.613489	13.613489	13 613489 F53	553
171 FSA_LVSD	•	0	0	•	3.0030007	3.0030007	9.6584844	13.613489	13.613489	13.613489	13 613489	13 613480 F54	. u
179													5
103	<b>Total annual</b>	<b>Total annual demand savi</b>	Ings by ECO										

CAA-SR-93-7

Teble E-3. Core Main (Linking) Spreadsheet - Value View (page 5 of 12 pages)

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104	(do rat cop)	downwerd, CLA	And across	   									
185	fy84	1495	Jvc.	fy97	fy 98	66.4	fyoo	101	fy02	fy03	fy04	1405	
106 F01 2X4R	22360.576	6435		128280.42	15.04-9.12	143811.66	143811.66	143811.66	143611.68	14381	143011.66	143811 66 FOT	For
187 FEP COMP	72369.353		12369.353	72369.353	72360 355	72356 353	72369.353	75240 73	75240 73		76240 73	75240 73 End	ED3
1 ABRON EXCIT	920 8947		CA18 5540	915 - 18C		CETS FEAC	C818 5576	2433 8182	2414 2142	6	2412 2422	2432 8187 ENS	
				- 1 1			<b>n</b>						5
	1028-03/9	P612.8/05	10947.519	174.19.47	1964.153	22275.453	22218.453	25681.978	25681.878	25681.878	25681.878	25681.878 F05	F05
101 FOG_CLTUN	•	0	0	0	0	¢	0	0	G	•	0	9	0 506
112 FOT_CONLL	-	0	•	663.87	163.8688	1206.5448	1690.0128	2690.5536	2690.5536	2690.3536	2690.5536	2690.5536F07	E07
103FOR PTHEM	0	0	0	IJ	Ċ	0	0	0			C	6	OFOR
10 A FOR MICH	G	C	C		¢	¢							P E D O
			002: 1000	,			0 - C - C - C						2
			2087.1802	30066.4688	01.1137	5685.3138	14867.629	22231.804	22234.804	22234.804	22234.804	22234.804	F10
HEIL HEEKS	•	0	0	0	¢	•	0	0	0	Ċ	0	Ų	OFII
197 FI2 NEGAS	0	0	0	0	a	0	•	0	ø	0	0		0 F12
198F13 GCHL	-	9	1857.24	1857.24	1.01	23605.181	30300.281	34685.431	34685 431	34685.431	34665.431	346R5 431	31/ 13
IDEFA COP	•	o	0	0		C	0	C	¢				u u
SABER DIE							, (		• <		•		
					2	، د	2		2	2	2		
Set Fre Unci		•	0	c	9	•	0	0	0		0	9	F16
202 FIT, HEEAC	•	0	•	9	9	•	•	1328.6023	1325.6023	1328.6023	1328.6023	1328.6023 F17	1F17
203 FIG. BUCS	7396.1.125	6702.0115	9101.698	11667.475	12049.262	12643.078	20875.764	26778.565	26778.565	26778.565	26778.565	26778.565 F18	F18
204 F19 GHP	0	0	0	2088.9102	136<7.208	14508.31	30077.51	30303.819	30303.819	30303.819	30303.619	30303.819[F19	F19
205 FZ0 RADB6		•	80.690581	80.690581	251.49381	357.44168	859.67316	1054.2415	1054.2415	1054.2415	1054.2415	1054.2415/F20	F20
206 F21 SHADO	ت سر	0	•	0	993.46362	1208.3755	1941.1337	3796.5409	3796.5409		3798.5409	3798.5409 F21	F23
207 FZZ RHOOF	20634 924	72952.38	\$6426.315	139210.92	187578.32	198479.15	229007.25	246233.39	246233.39	246233.39	246233 39	246233 39	ESS
200 FZJ EINSL	0	0	•	•	•	•	0	0	Ċ	Ċ	đ	0	53
200 F24 BINSL	•	0	0	26.33632	169.06655	415.23423	775.0307	1290 4367	1390 4367	1300 4367	1300 A387	1300 4367	53.
210F25 CINSL	0	52.789917	280.37132	426.9772		815 66495	040 0000	1016 5000	1016 6000	1016 5000	1016 5000	1016 500 F2F	
211 FAS SUND		c											
212 F27 WNDF		128 15203	A1211 CTA	570 07958	01110 200	9754 0411		0 100 0000		0,00,0001		0.000	
A LEASE WALLER						0/01/01/01	C000-201 (	1200.3340	0480.0071	24AC-0071	1266.3848	1206.3948 127	124
					•	0	0	0	0		0	9	G F28
ZINNA KZARI		-84.252	-84.252	-1284.908	-1264.908	-1284,908	-1284.908	-1311.22	-1311.22	-1311.22	-1311.22	-1311.22	22 F29
	•	•	•	0	0	•	0	¢	6	9	•	9	0 F 30
216FM HEST	•	0	•	•	0	0	e	0	0	0	0	0	OF31
217 Fr. D.SUP	611.06747	6126.7446	13274.777	18810.056	23198.944	27491.222	28560.266	23575.218	28575.218	28575.218	28575.218	28575 218 532	533
216 F33 HMH	•	0	•	0	0	0	G		C				1
210FY TRANE	q	q	a	c		Ċ			•	•		2	
220 EX HISE			•	<b>,</b> ,	<b>,</b>						0	0	E
	•			5 (			2		ð	0	•	a	0 F35
				5	0	0	0	9	0	0	G	0	F36
			•	0	•	0	0	C	0	•	J	<i>.</i>	F37
2231-30 MANUE	0			0	3	0	321.7025	1629.32	1629.32	1629.32	1629.32	1629.32	F36
	11726.735	1979	20819.886	20819.886	20319.886	20819.886	20819.836	20819.866	20619.886	20819.885	20819.886	20819.586 F39	F39
2281-40 SOLS	0	0	8	0	0	•	0	Ö	•	0	0	0	olF40
		0	9	9	9	9	9	0	0	•	0	0	Ē
ZZT FE SOUM		0	•	•	•	o	0	•	0	o	•	0	0 F42
BMT05 :: 1922	•	0	0	•	0	c	0	0	0	0	0	a	0 F43
2281541 HFHE	<b>]</b>	0	•	•	U	0	•	0	0	0	0	0	<b>F</b>

<b>X</b>	E.	F46	F47	F48	F49	220	3 50	O Eco	2	2419	0 F54		-						Ģ	0	1	3	ş	8	F06	6	8	F09	F10	E	F12	F13	Ē	15	19	11	F18	61:	20	5	500	F23	24	25	0 F26	27	
*	4 C	40	90	10	31246.87	17510 436	5706 3423 F51		5	3	5							1405	48009.807 F01	19.180 3 FO2	1538 7075 Em			4044.8404	3761.0966	1439.9492[F07	2271.99 F08		2495.88				0	900.75 F15	7257.6407 F16	379.08 F17	14506.247	9958.065 F19	627.39619 F20	1094 5817 F21	26083 52	10	1462.95 F24	1015.63 F25	0	1251.03 F27	690 1275 F2A
	0	•	•	0	31246.87	17510 436	5708 3423			5	•							1y04	46009.807	19480 3	1538 7075		3004.28	4044.6404	3761.0966	1439.9492	2271.99	3094,765	2495.88	2995.655	50.57	5860.4	Ģ	900.75	7257.6407	373.08	14506.247	<b>9958.065</b>	627.39619	1094.5817	26093.52	¢	1462.95	1015.63	0	1251.03	690 1275
×	0	0	Ö	Ö	31246.87	17510 436	5708 3423		<b>,</b>		0							fy03	46009.807	19480.3	1638 7075		82.4005	+0+9.+894	3761.0966	1439.9492	2271.99	3034.765	2495.88	2995.655	50.57	5860.4	9	900.75	7257.6407	379.06	14506.247	9958.065	627.39619	1094.5817	26033.52	0	1452.95	1015.63	0	1251.03	690.1275
7	0	0	0	0	31246.87	17510 436	5708.3423		•	2	0							fy02	46009.807	19480.3	1538 7075		5014 5005	4084.6404	3/61.0966	2048.0040	2271.99	3094.765	2495.86	2995.655	10.00	5860.4	2	900.75	7257.6407	379.08	14506.247	9958.065	627.39619	1094.5817	26093.52	0	1462.95	1015.63	0	1251.03	690.1275
-	0	•	•	•	31:146.87	17510 436	5708.3423			5	•							fy01	46009.807	19480.3	1538 7075		07.4UUC	10100 FAD1	3/61.0966	2545.5041	22/1.99	3094.765	2495.88	2995.655	10.00	2800.4		900.75	1257.6407	379.08	14506.247	9958,065	627.39619	1094.5817	26093.52	•	1462.95	1015.63	0	1251.03	690.1275
Ξ	0	0	•	0	30259.016	17510 436	5708.3423			יכ	0							fy00	46009.607	19430.405	538 7075		-303 3337	1000-0006	3134.4308	C250.0C01	22/1/22	1926.013	1809.63	1792.8076	10.00	8-967C		800.75	1291.6431	0	10158.323	9902.035	523.72608	658.69341	25127.9	0	997.74	989.0925	•	1218.36	690.1275
9	0	•	ø	0	30259.016	17510 436	5708.3423			, c	•							fy99	46009.807	19430,405	1538 7075	1010001	102	1000.0004	1680.7176	500FU.200	52.1122	1484.47	9/8/03	1066.325	10.00	8.0200		5/.008	1040.1021	0	4823.6626	5227.4905	262.2895	445.72356	23359.77	•	655.92	913.2475	•	1209.12	<b>690.1275</b>
u.	0	•	0	0	27587.819	16956 853	5527.876	Ċ		2	0							1y98	45477.308	19430.405	1538 7075	2000 26	5013 FLAT	1210.4554	2000.0000	CO4///17C	22/1.85	C17-D011	633.00	ch2.co/	10.00	7.400 7		7953 5152	1040 /07/	0	1234.66/1	4961.58	207.33163	381.17875	22437.45	0	390.625	763 565	•	1040.9025	690.1275
-	Ö	0	0	0	19842.202	16918 897	5515.5025				•							fy97	43265 521	19430,405	1538 7075	200 - CO.	CIE UT06		5220.1310	504//.17C	C/97.0977	100.020	92.000	CB1.180	10.00			0/4-020 TOTO C102	1040.1071		CRUN BUFZ	1002.625	64.24704	0	17910.81	9	127.755	609.29	•	772.365	690.1275
9	•	•	0	0	16391.319	15459 941	5039.8877	C	•		0				1 1 1 1		n copy across	1y96	35980.639	19430.405	1538 7075	300 3031	CENTRES	1002-2000	C200.1022		40.4715 700	C44.807	07.400	0/./94	C 133			144	1040 1021		1641.4021	•	64.24704	0	13377.28	•	•	458.92	•	674.4375	690.0325
	Ŷ	0	0	0	0771.5308	10070.969	3283.1014	C			•						(do not copy downward, can copy across)	1y95	27164.136	19430.405	1422 7125	1420 175	1673 8417	1140.0101	×102.100	3146 0000	C/20.0C02			<b>)</b> c			306 93	575-85 2014 1301			0/0.10313	0	0	0	EF.16511	•	•	117.6725	с <b>р</b>	278.9325	690.0325
æ	0	•	•	0	2002.5822	3584.4936	1166.5326	0			•				farmer beta		Ido not copy	1494	12263.103	19430.405	8:8.07	732 206	507 US605	1700.0547		721 2626	C747-17/	<b>.</b>						2000 S.145	*****			3		0	4829.22	0	•	0	0	0	626.905
	FIS ECOMP	F46_EHP	232 F47_DCONP	233 F48 MITTAR	F49 SMOTH	FIG MACUTE	FSI LINDTR	237 FEV SVSD			F54_LVSU			(	E	)	/	/	247 F01_2X4R	240 For COMPL	24 DECO EXIT	SEAL OF SEA		3 8						SERIEIS NECAS	950 F13 COM	260514 6945		229548 NUCT	262 612 10200	Seattle ture		Zearly GH	HAUNH 024 452	-21 SHMOD	260 F22 RPOOF	269(F23 ENSI.	ZTO-24 BINSL	271 F25 CINSL	272 P26_SWIND	Z/ 31-2/ WWW	274 F28 WHBLA
11		231	-	-	234F	2355	236					240	212	243				570	Ē	ŝ		-	2515	10.10									-						-11	-	-	<u> </u>			<u>a</u> , I	- 1	274 F28 WHBL

Table E-3. Core Main (Linking) Spreadsheet - Value View (page 6 of 12 pages)

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Table E-3. Core Main (Linking) Spreadsheet - Value Wew (page 7 of 12 pages)

27.6F30 SREST				,									
Fai HEST	1411 474R	1611 4748	1611 4748	1611.4748	1611.4748	1611.4748	1611.4748	1511.4748	1611.4748	1611.4748	1611.4748	1611.4748	F30
		0101 0001	1220 4210	11220 4210	1320 4219	1329 4219	ELCY BOEL	1329.4219	1329.4219	1329.4219	1329.4219	1329.4219 F31	F31
	1368.4618	8176.8701	8136,8701	131.8301	0001 0101			302 00101	10.400 605	10400 685	10400 685	10499 KASIF32	E32
270F2 DESUP	448.02951	3340.722	6181.2141	1928.1117	CZC9-\$ZZR	8J.CR201			10433.003		101.00.000	20 1000.000 020	
21 9 F30 HWH	0	0	64.43041	64.43041	352.38488	352.38486	332.38485	224.207.200	332.30400	00400.200	00100.300		2
280F34 TRANF	0	0	0	•	•	•	0	Ô	0	0			
201 FIS HOSE	1171.3325	1171.3325	1171.3325	1171.3325	1171.3325	1171.3325	1171.3325	1171.3325	1171.3325	1171.3325	1171.3325	1171.	135
215 ESS WSUND	1630	1630	1630	1630	1630	1630	1630	1630	1630	1630	1630	163	F36
DALET PV	9	0	J	0	0	0	Ċ	0	o	0	0	0	0 F37
SCALE WINE			a	0	0	0	155.79853	750.12227	750.12227	750.12227	750.12227	750.12227 F38	F36
	810 0766	11830.661	1200A G6	12098 96	12098.96	12236.298	12236.298	12312.402	12312.402	12312.402	12312.402	12312.402 F39	F39
			1242 2424	1000 1032	3056 0886	5055 B265	R075 5529	9562 0371	9562.0371	9552.0371	9562.0371	9562.0371 F40	F40
286140 50151	njanifar	<b>.</b>	1090.2401	2020.4202	0000-0000 TE 00010C			1007 070	C404 C400	042 4082	042 40R2	147 4082 F41	
207 21 SOLWH	•	•		75.884426	074488.C/	2004-24R	2004.246	2001-246	1004-746	3004.346	767 64676	f	ŝ
288 F42_SOLML	•	0	0	•	78.983494	236.93049	439.32339	733.51506	oncie.ec/	00010.00/	00010.00/		
269 F43 SOLWB	•	0	0	0	Ċ	a	9	369.58069	369.58069	369.58069	369.58069	3	
290 FM HHIG	e	101.52678	298.67994	487.9623	899.98069	1035.2537	1098.4307	1315.807	1315.807	1315.807	1315.807	1315.807 F44	
SOLESE ECOND	0	c	5	•	0	0	•	0	•	0	0	9	0 F45
		c			0	a	0	0	a	0	0	Ű	0 F46
			1767 6660	TAN CETAR	337 55111	31540 546	JE BOLLO	23866 578	23866 578	23866 578	23866.578	23866.578 F47	E47
Linn Jules			0000.7074	100.36.01				010.0001 010	* 222 272	1333 873			249
294F48_WITH	• 	<b>.</b>	81.5/14/2	244.2/003	71678-110	100000		010.000101					9
205 F49_SWOTH	1334.64	4284.08	6591.2007	7554.72	9366.24	8848.5	8848.X	01.20101	10102.06	50.20101	00.20101	_	
203 FEO MANOTR	1871.84	3948.08	5248.72	5569.04	5575.36	5661.04	5661.04	5661.04	2661.04	100C	- 100C		2
207 FSI LMOTR	610.24	1287.04	1710.96	1815.44	1817.52	1845.44	1845.44	1845.44	1845.44	1845.44	1845.44		151
268 FS2 SVSD	0	6)	0	9	0	216.55203	216.55203	390.10511	390.10511	390.10511	390.10511		52
200 FK3 MVSD	•	•	c	a	129.93122	129.93122	324.89524	432.43476	432.43476	432.43476	432.43476	432.43476 F53	F53
390 F54 LVSD	0	0	•	•	129.93122	129.93122	324.89524	432.43476	432.43476	432.43476	432.43476	432.43476 F54	154
301 302 303													
304													
305	Total annual	Total annual antronant	ital savings by ECO	Y ECO									
306	(do not copy	(do not copy dommand, can copy across)	n copy across										
307	194	1295	1796	fy97	fy98	1y99	1200	1y01	fy02				٦
338 F01_2X4FL	51098.904	151350.06	241919.53	332124.61	368701.44	378290.4	378290.4	378290.4	378290.4	378290.4	378290.4		<u>5</u>
305 FOC CONFL.	147250.99	147250.99	147250.99	147250.99	147250.99	147250.99	147250.99	153585.29	153585.29	153585.29	153585.29		9 F02
310 FOD EXLIT	6125.088	14458.935	16541.495	16541.495	16541.495	16541,495	16541.495	16541.495	16541.495	16541.495	16541.495	i 16541.495 F03	5 F03
311 FM OCSEN	3190.5667	7798.4079	10252.833	12962.87	19977.107	26923.275	31752.505	32908.686	32908.686	32908.686	32908.686	32908.686	5 FO4
312 FOS SLANP	2588.088	6433.3392	29849.821	33397.15	42027.954	42549.366	42549.366	48261.619	48261.619	48261.619	48261.619	48261.619 F05	9 F05
313 FOG OLTON	7961.9631	13265.257	26852.683	32823.6	44130.646	45335.04	46023.548	46757.718	46757.718	46757.718	46757.718	1 46757.718 F06	<b>B</b>  F06
314 For CONLL	0	0	0	1045.1936	1045.1336	2659.7948	3691.7539	6483.0444	6483.0444	-	-	-	4 F07
315 50 THRM	9750.948	32679.675	35790.903	37900.295	38252.647	38252.547	38252.647	38252.647	38252.647	38252.647	38252.647		7 F08
31c no MBOIL	0		2346.2987	7684.9383	12803.19	17683.153	24132.069		43352.996		43252.996		6 509
3171F10 000LS	0	0	0	0	0	0	0						OFIO
318 FIL YEGAS			4697.3982	7014 0898	7279.5246	10960.997	20639.088	37664.686	37664.686	37664.686	37664 586	37664.65	6 F 11
319 FL2 NEGAS	-	0	0		405.72444		405.72444						4 F12
320 FI3 GCH		, ,	-625,1909		-625,1909		-15635	-17416.44					4 513
321 FIA GSPP		0	0		0	0	0	0	¢		Ģ		0 F14

Table E-3. Core Main (Linking) Spreadsheet - Value View (page 8 of 12 pages)

F46 F48 F49 F50 F43 545 F#7 FSI 1635.0975 F52 F35 F39 550 5 ž 2104.7334 F53 F23 F25 F26 F29 F30 F32 533 E34 F36 F38 E 2104.7334 F54 14880.575 F15 115265.79 F16 4380.5716 F17 216556.18 F18 57345.612 F19 7695.8631 F20 6506.5446|F21 11965.468 F22 21398.429 F24 20058.26|F27 9997.6337 F20 F31 F37 5220.2839 406272.05 22942.461 113370.85 20711.182 17461.016 10939.693 1725555.21 61882.648 12264.623 5462.2642 63531.901 16450.735 6026.2208 1928.4428 10138.402 C 21165.545 123764.91 26858.536 19406.577 3 406272.05 113370.85 20711.182 1635.0975 2104.7334 61882,648 22942.461 63531.901 2104.7334 4380.5716 216556.18 57345.612 16450.735 7553.7999 21165.545 17461.016 1928.4428 19406.577 26858.536 10939.6593 1725555.21 5220.2839 12264.623 5462.2642 10138.402 14580.575 115285.79 6506.5446 11965.468 21398.429 20058.28 6026.2208 123764.91 7695.8631 1635.0975 61882.648 5220.2839 12264.623 406272.05 113370.85 63531.901 20711.182 2104.7334 2104.7334 4380.5716 216556.18 21165.545 17461.016 10939.6693 172555.21 5462.2642 10138.402 22942.461 115265.79 57345.612 7695.8631 6506.5446 11965.468 21398.429 16450.735 20058.26 7663.7999 6026.2208 123764.91 1928.4428 19406.577 26858.536 14880.575 61882.648 12264.623 113370.85 20711.182 1635.0975 2104.7334 17461.016 5220.2839 5462.2642 406272.05 63531.901 2104.7334 4380.5716 216556.18 57345.612 7695.8631 6506.5446 11965.468 20058.26 21165.545 1928.4428 26858.536 10939.683 10138.402 22342.461 14880.575 115265.79 21398.429 16450.735 9997.6337 6026.2208 123764.91 19406.577 1725555.21 2104.7334 2104.7334 216556 18 57345.612 6026.2208 61882.648 5220.2839 5462.2642 406272.05 113370.85 63531.901 20711.182 1635.0975 14880.575 115265.79 4380.5716 7695.8631 6506.5446 11965.468 21398.429 16450.735 20058.26 9997.6337 21165.545 17461.016 123764.91 1928.4428 19406.577 26658.536 10939.653 172555.21 12264.623 10138.402 22942.461 109786.69 1716.6766 1716.6766 0 55496.11 3357.7788 11311.262 14211.25 19227.68 5879.8808 21165.545 17461.016 123725.15 1928.4428 26858.536 1659.3408 171603.66 41077.1 5220.2839 6498.3516 C 6529.5552 C 0 398067.18 15755.754 63531.901 20711.182 605.74407 14880.575 115265.79 148452.32 6373.2027 15729.341 10037.6337 19406.577 I 109786.69 363.44644 14880.575 66820.95 17461.016 171803.66 29900.553 5220.2839 3312.1774 365781.79 14389.474 63531.901 20711.182 605.74407 363,44644 115265.79 2017.9245 14495.016 5879.8808 21165.545 1928.4428 26858.536 5562.0491 ¢ 29000.753 2463.1582 9963.6522 9535,3689 19046.841 10037.6337 120385.91 19406.577 ۵ 247190.15 10476.193 61523.373 169843.47 1254.1864 a 100094.97 20056.409 C 363.44644 363.44644 1716.4703 11524.315 21165.545 17461.016 1928.4428 26858.536 19958.667 157.60381 3788.4447 115265.79 27368.333 1552.8248 9493.7309 5017.6212 16067.994 1003.6337 5879.8808 102842.78 19406.577 11469.357 46392.229 u 20011.515 71992.084 61385.66 0 4742.4797 181975.01 4081.9607 C 109643.47 ¢ 115265.79 7293.8936 1997.3143 9136.7426 11745.864 5879.8808 21165.545 17461.016 209.41489 26858.536 2011.7631 9927.7699 27557.572 4196.1494 233.31429 7553.7929 19406.577 157.60381 63117.131 w **Cumulative quantity panetration by ECO** (do not copy downward, can copy across) ¢ 66905.335 1499.0986 59471.484 56092.23 18285.875 a 169643.47 3481.6974 21165.545 209.4:489 Ć 973.26191 115265.79 13047.786 233.31429 5314.1461 a 7083.5941 10154.569 174.27032 17461.016 59094.972 19406.577 26858.533 6202.2665 9987.0561 a 162475.74 a 0 G 36539.798 11911.649 00 a 206.56129 0 31825.137 0 26858.536 o a 3080.2508 ¢ 1784.9065 174.27032 21165.545 17461.016 27723.806 711.71557 115265.79 4126.8207 o 0 C 4300.0371 9987.0561 10406.577 c postprocessor 0 7265.8302 13005.369 4239.7059 101762.73 ø 0 0 0 ø 0 105285.05 2743.9574 1644.362 a 0 a đ ø 21105.545 17461.016 1404.0931 19408.577 26858.536 0 ٥ 0430.5487 æ 1 FSI LINOTH 356 Fe9\_SMOTR 357 Fe9\_MMOTR 358 F51\_LMOTR 359 F52\_SVSD 360 F53\_MVS7 F20 RADBR File EHP F25 CINSI F26 SWND F27 WINDF F28\_WHBLA F36 MSUMP 325 FIA\_ENCS 326 FI9\_GHP 327 F20\_ANDBH F31\_FEST FLI SOLWH F42\_SOLM FLS SOLWB NOOC RETHY 22 FIZ DESUP F34\_TRANF F36\_WINDE F36 MOON FIT HEEKO FZZ PROOF BIF29 HMHP FIG DUCT F36 HDISH FE SOLS FILL HEHIC F54\_LVSD đ Paris Reveal F24\_BINSL F33\_HMH F37\_PV z 354 364 365 365 367 332 335 247 361 362 328 322 324

Table E-3. Core Main (Linking) Spreadsheet - Value View (page 9 of 12 pages)

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1     1321798.3       2     1502581.2       7     134094.67       8     94812.1       1     230556.68       1     230556.12       1     128576.12       3     34983.333       3     34983.333       3     34983.333       5     52376.271       5     762.0548       6     194.055       6     194.055       7     88526.667       7     88526.667       6     1032.325       6     1038559.05       7     1038559.05       8     10381.058       7     1038559.05       8     1038559.05       7     1038559.05       8     1038559.05       7     1038559.05       8     1038559.05	12955 13409 73409 73409 73409 73409 72598 829347 829387 829387 1243 73409 829387 829387 1243 73695 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 88526 8856 885	1206119.9 12955 1502561.2 15025 134094.67 13409 51266.95 734 201232.18 22986 1057283.35 12596 1057283.35 12596 624.34723 1243 624.34723 1243 624.34723 1243 624.34723 1243 624.34723 1243 624.34723 1243 624.34723 1243 624.34723 1266 1922.995 21656 1922.955 664 93295 794.8, 1333 11887 6812220 961 6812220 961 681220 920 750 750 750 750 750 750 750 750 750 75	1206119.9         12055           1502561.2         1502561.2         150256           134094.67         13409         51266.95         734           51266.95         734         22986         12955           51266.95         734         22986         13409           51266.95         734         22986         13409           51262.16         2242.85         8234         12956           262242.85         82342         828         8294           924.34723         1243.         34695         5489.9148         5588.           924.34723         1243.         34695         5489.9148         5588.           420.51282         420.5         122.6         1032.325         1032           5488.9148         5588.         1032.325         1032           5488.9133         11987         681556.667         86556           681526.667         88556         1032         1032           7948.1333         11987         3817         3817           6812220         9513         9513         3295           7948.1333         11332         11332         3295           79066760         2750         9513
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		1502551.2 134094.67 51266.95 51266.95 105798.35 105798.35 864.34723 91640.014 926.434723 91640.014 926.4395 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 88526.667 1032.325 1032.325 1032.325 88526.667 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.325 1032.355 1032.355 1032.355 1	1502561.2     1502561.2     1502561.2       120222.02     134034.67     134034.67       348955.5     41531.35     51266.95       56182.3     96655.613     105798.35       56182.3     96655.613     105798.35       16682.5     16682.5     26287.083       515.6.651.45     201232.18       56182.5     16582.5     26287.083       72037.133     78133.285     5438.9148       72037.133     78133.255     5438.9148       14117.336     25104.5     31640.014       3160.2217     453.655     5438.9148       147.17949     147.17949     20.51282       147.17949     147.17949     20.51282       7509.25     14884.956     19721.995       60     0     0     0       7509.25     14884.956     19721.395       6090660     6812220     6812220       384293.81     384293.81     10322.325       11806920     14475330     20066566760       384293.81     384293.81     31322325       384293.81     384293.81     3132232       384293.81     3142933     0       384293.81     3142933     0       384293.81     314266760       384293.81     314266760 </td
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    2328.6931         2477.853         12.6         12.6         12.6         12.6         12.6         12.6         12.6         12.6         12.6         12.6         12.6         12.6         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0</td><td>53376.833         59472.963         65582.55         64274.367         64274.367         64274.367         64274.367         64274.367         64274.367         64274.367         64274.367        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 Table E-3. Core Main (Linking) Spreadsheet - Value View (page 10 of 12 pages)

E-36

 Table E-3. Core Main (Linking) Spreadsheet - Value View

 (none 11 of 13 none)

C         D         E         F         G         G         A         A           5875         138.568333         3013.7333         3013.7333         3013.7333         3013.7333         3013.7333         3013.7333         3013.7333         3013.7333         3013.7333         3013.7333         3013.7333         3013.7333         3013.7333         3013.7333         3013.7333         3013.7333         3013.7333         3013.7333         3013.7333         3013.7333         3013.7333         3013.7333         3013.7333         3013.7333         3013.7333         3013.7333         3013.7333         3013.7333         3013.7333         3013.7333         3013.7333         3013.7333         3013.7333         3013.7333         3013.7333         3013.733         3013.733         3013.7333         3013.733         3013.733         3013.733         3013.733         3013.733         3013.733         3013.733         3013.733         3013.733         3013.733         3013.733         3013.732         3013.723         3013.723         3013.723         3013.723         3013.723         3013.723         3013.722         3013.722         3013.722         3013.722         3013.722         3013.722         3013.722         3013.722         3013.722         3013.722         3013.722         3013.722         <			-			•				>			
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R         3660         10283.111         1576.6         1737.200         1737.0.200         1737.0.200         1737.0.200         1737.0.200         1737.0.200         1737.0.200         1737.0.200         1737.0.200         1737.0.200         1737.0.200         1737.0.200         1737.0.200         1737.0.200         1737.0.200         1737.0.200         1737.0.200         1737.0.200         1737.0.200         1737.0.200         1737.0.200         1737.0.200         1737.0.200         1737.0.200         1737.0.200         1737.0.200         1737.0.200         1737.0.200         1737.0.200         1737.0.200         1737.0.200         1737.0.200         1737.0.200         1737.0.200         1737.0.200         1737.0.200         1737.0.200         1737.0.200         1737.0.200         1737.0.200         1737.0.200         1737.0.200         1737.0.200         1737.0.200         1740.0.200         1740.0.200         1740.0.200         1740.0.200         1740.0.200         1740.0.200         1740.0.200         1740.0.200         1740.0.200         1740.0.200         1740.0.200         1740.0.200         1740.0.200         1740.0.200         1740.0.200         1740.0.200         1740.0.200         1740.0.200         1740.0.200         1740.0.200         1740.0.200         1740.0.200         1740.0.200         1740.0.200         1740.0.200 <th1< td=""><td></td><td></td><td></td><td>03132 03132</td><td></td><td></td><td></td><td>5001-3060</td><td></td><td></td><td>2901-7062</td><td>2001-2020</td><td></td></th1<>				03132 03132				5001-3060			2901-7062	2001-2020	
H         3660         10283.111         15785.6         575.6673         345.0578         345.0578         345.0578         345.0578         345.0578         345.0578         345.0578         345.0578         345.0578         345.0578         345.0578         345.0578         345.0578         345.0578         345.0578         345.0578         345.0578         345.0578         345.0578         345.0578         345.0578         346.75         349.355         149.345         480.335         480.335           Percent of Fheil Pennitration         0         0         0         149.345         149.345         480.335         480.335           Cum quart pen (above 93 pen) (divided by lest year cum quart pen (above 93 pen) (divided by lest year cum quart pen (above 93 pen) (divided by lest year cum quart pen (above 93 pen) (divided by lest year cum quart pen (above 93 pen) (divided by lest year cum quart pen (above 93 pen) (divided by lest year cum quart pen (above 93 pen) (divided by lest year cum quart pen (above 93 pen) (divided by lest year cum quart pen (above 93 pen) (divided by lest year cum quart pen (above 93 pen) (divided by lest year cum quart pen (above 93 pen) (divided by lest year cum quart pen (above 93 pen) (divided by lest year cum quart pen (above 93 pen) (divided by lest year cum quart pen (above 93 pen) (divided by lest year cum quart pen (above 93 pen) (divided by lest year cum quart pen (above 93 pen) (divided by lest year cum quart pen (above 93 pen) (divided by lest year cum quart pen (above 93 pen) (divided by lest year cum quart pen (above quart pen (above quart pen (above 93 pen) (divided b		ę		80/00	0760/	222.0/000	222.0/000	CAT.ORCRD	-	-	88386.445	88396.442 I-48	64-
732         2056.6222         3157.12         3455.0578         3575.6578         3575.6578         3575.6578         3575.6578         3575.6578         3575.6578         3575.6578         3575.6578         3575.6578         3575.6578         3575.6578         3575.6578         3575.6578         3575.6578         3575.6578         3575.6578         3575.6578         3575.6578         3575.6578         3575.6578         3575.6578         3575.6578         3575.6578         3575.6578         3575.6578         3575.6578         3575.6578         3575.6578         3575.6578         3575.6578         3575.6578         3575.6578         3675.6578         3675.6578         3675.6578         3675.6578         3675.6578         3675.6578         3675.6578         3675.6578         3675.6578         3675.6578         3675.6578         3675.6578         3675.6578         3675.6578         3675.6578         3675.6578         3675.6578         3675.6578         3675.6578         3675.6578         3675.6558         3675.6578         3675.6578         3675.6578         3675.6578         3675.6578         3675.6578         3675.6578         3675.6578         3675.6578         3675.6578         3675.6578         3675.6578         3675.6578         3675.6578         3675.6578         3675.6578         3675.6578         3675.6578         3675.				17275.289	17314.044	17879.289	17879.289	17879.289	17879.289	17879.289	17879.289	17879.289 F50	<b>F</b> 50
0         0         0         0         149.345         746.725         746.725         746.725         746.725         746.725         746.725         746.725         746.725         746.725         746.725         746.725         746.725         746.725         746.725         746.725         746.725         746.725         746.725         746.725         746.725         746.725         746.725         746.725         746.725         746.725         746.725         746.725         746.725         746.725         746.725         746.725         746.725         746.725         746.725         746.725         746.725         746.725         746.725         746.725         746.725         746.725         746.725         746.725         746.725         746.725         746.725         746.725         746.725         746.725         746.725         746.725         746.725         746.725         746.725         746.725         747.725         747.725         747.725         747.725         747.725         747.725         747.725         747.725         747.725         747.725         747.725         747.725         747.725         747.725         747.725         747.725         747.725         747.725         747.725         747.725         747.725         747.725         <				3455.0578	3462.8089	3575.8578	3575.8578	3575.8578	3575.8578	3575.8578	3575.8578	3575.8578 F51	FS1
0         0         0         149.345         149.345         480.335           Percent of Flad Penatration         0         0         0         149.345         149.345         480.335           Percent of Flad Penatration         0         0         0         149.345         149.345         480.335           Percent of Flad Penatration         0         0         0         149.345         149.345         480.335           Percent of Flad Penatration         0         149.345         149.345         149.345         480.335           Cum quart pen (above 83 pen) (divided by lest year cum quart pen (above 83 pen)         149.345         149.345         480.335           (do not copy downward, can copy across)         149.7         1497         1497         1496         1496           (do not copy downward, can copy across)         149.45         100%         100%         100%         100%           16%         45%         56%         96%         96%         96%         96%         96%           87%         118%         25%         96%         100%         100%         100%         100%           118%         25%         35%         65%         96%         10%         100%         100% <td>•</td> <td>•</td> <td>•</td> <td>•</td> <td>0</td> <td>746.725</td> <td>746.725</td> <td>1583.8333</td> <td>1583.8333</td> <td>1583,8333</td> <td>1583.8333</td> <td>1583 8333 F52</td> <td>F52</td>	•	•	•	•	0	746.725	746.725	1583.8333	1583.8333	1583,8333	1583.8333	1583 8333 F52	F52
D         0         0         0         149.345         149.345         480.335           Prevent         of         Fland         Prevent         of         Fland         Prevent         e80.335         149.345         149.345         480.335         149.345         480.335         149.345         480.335         149.345         480.335         149.345         480.335         149.345         480.335         149.345         480.335         149.345         480.335         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%	0	0	0	0	149.345	149.345	480.335	â77 025	677 025		677 025	677 025 EE3	5
Percent of Final Penatration         Part of the field         Part of the field form 33 penil divided by lest year cum quart pen (above 33 penil) divided by lest year cum quart pen (above 33 penil) divided by lest year cum quart pen (above 33 penil) divided by lest year cum quart pen (above 33 penil) divided by lest year cum quart pen (above 33 penil) divided by lest year cum quart pen (above 33 penil) divided by lest year cum quart pen (above 33 penil) divided by lest year cum quart pen (above 33 penil) divided by lest year cum quart pen (above 33 penil) divided by lest year cum quart pen (above 34 penil) divided by lest year cum quart pen (above 34 penil) divided by lest year cum quart pen (above 34 penil) divided by lest year cum quart pen (above 34 penil) divided by lest year cum quart pen (above 34 penil) divided by lest year cum quart pen (above 34 penil) divided by lest year cum quart pen (above 34 penil) divided by lest year cum quart pen (above 34 penil) divided by lest year cum quart penil) divided by lest year cum quart penil) divided by lest year cum quart penil divided by lest year cum quart penil divided by lest year cum quart penil divided by lest year cum quart penil divided by lest year cum quart penil divided by lest year cum quart penil divided by lest year cum quart penil divided by lest year cum quart penil divided by lest year cum quart penil divided by lest year cum quart penil divided by lest year cum quart penil divided by lest year cum quart to the lest of the lest of the lest of the lest of the lest of the lest of the lest of the lest of the lest of the lest of the lest of the lest of the lest of the lest of the lest of the lest of the lest of the lest of the lest of the lest of the lest of the lest of the lest of the lest of the lest of the lest of the lest of the lest of the lest of the lest of the lest of the lest of the lest of the lest of the lest of the lest of the lest of the lest of the lest of the lest of the lest of the lest of the l	c	c	¢		140 345	140 345	480.335	ET7 016	170 LL3		940'''''		
Percent of Fluel Penatration         Cum quart pen (above 33 pen)           Cum quart pen (above 33 pen)         (do not copy domination (above 33 pen)           (do not copy domination (above 33 pen)         (y99 field (y196 fiye)           (do not copy domination (above 33 pen)         (y97 fiye)         (y98 fiye)           (do not copy domination (above 33 pen)         (y97 fiye)         (y98 fiye)           (do not copy domination (above 33 pen)         (y97 fiye)         (y98 fiye)           16%         45% fixe         96% ge% ge% ge% ge% ge% ge% ge%         96% ge% ge% ge% ge% ge% ge% ge% ge% ge% ge	•	•	•	•			P00.001	C30.110	C20-110		c7n.110	beulezn. 770	
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PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX         PEX <td>16%</td> <td>45%</td> <td>67%</td> <td>206</td> <td>38%</td> <td>100%</td> <td>100%</td> <td>100%</td> <td>100%</td> <td>100%</td> <td>100%</td> <td>100% F01</td> <td>FOI</td>	16%	45%	67%	206	38%	100%	100%	100%	100%	100%	100%	100% F01	FOI
38%         67%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         1	<b>96%</b>	26%	36%	96%	96%	36%	96% -	100%	100%	100%	1007	100%	504
11%     26%     32%     41%     61%     80%       6%     22%     62%     65%     87%       6%     22%     65%     75%     94%     97%       7%     0%     0%     0%     100%     100%     100%       7%     14%     15%     94%     97%     97%       7%     0%     0%     75%     94%     97%       7%     0%     0%     100%     100%     100%       0%     0%     9%     14%     25%     34%       0%     0%     9%     14%     25%     34%       0%     0%     9%     14%     25%     34%       0%     0%     9%     14%     25%     34%       0%     0%     0%     14%     16%     30%       0%     0%     0%     14%     16%     30%       0%     0%     0%     14%     16%     30%       0%     0%     14%     16%     30%       0%     0%     13%     14%     23%       0%     0%     13%     14%     23%       0%     0%     0%     14%     10%       10%     0%	38%	87%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	FOR
P         6%         22%         62%         66%         87%           1         25%         36%         66%         75%         94%         87%           25%         36%         66%         75%         94%         97%           0%         0%         0%         75%         25%         25%         47%           0%         0%         0%         25%         25%         34%         97%           0%         0%         0%         14%         255%         34%         30%           0%         0%         0%         14%         255%         34%         100%         100%         100%         100%         100%         100%         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1	11%	26%	32%	11%	61%	80%	36%	100%	100%	100%	100%	100%	
N         25%         36%         66%         75%         94%         97%           0%         0%         0%         0%         0%         25%         25%         47%           0%         0%         0%         0%         25%         25%         47%           0%         0%         0%         100%         100%         100%         100%           0%         0%         0%         14%         25%         34%         30%           0%         0%         0%         14%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1	¥9	22%	62%	69%	86%	87%	87%	100%	100%	-	100%	100%	
Image: Non-state state         Image: Non-state state         Image: Non-state state         Image: Non-state state         Image: Non-state state         Image: Non-state state         Image: Non-state state         Image: Non-state state         Image: Non-state state         Image: Non-state state         Image: Non-state state         Image: Non-state         Image: Non-state <td>25%</td> <td>36%</td> <td><b>66%</b></td> <td>75%</td> <td>34%</td> <td>%26</td> <td>28%</td> <td>100%</td> <td>100%</td> <td>•</td> <td>100%</td> <td>100%</td> <td>E D B</td>	25%	36%	<b>66%</b>	75%	34%	%26	28%	100%	100%	•	100%	100%	E D B
4         23%         83%         93%         99%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         11         100%         100%         110%         100%         110%         100%         110%         100%         110%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         110%         110%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100%         100% <td><b>%</b>0</td> <td>2</td> <td>20</td> <td>25%</td> <td>25%</td> <td>47%</td> <td>63%</td> <td>100%</td> <td>100%</td> <td></td> <td>100%</td> <td>100%</td> <td>F07</td>	<b>%</b> 0	2	20	25%	25%	47%	63%	100%	100%		100%	100%	F07
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	¥.	*	4	34 0	15%	22%	61%	100%	100%	100%	100%	100% F18	F18

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(Linking) Spreadsheet -	e 12 of 12 pages)
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Table E-3.	

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506 F19_GHP	8	20	20	ž	45%	48%	<b>%66</b>	100%	100%	100%	100%	100%
507 F20 RADBR	<b>x</b> 0	2	5%	5%	25%	345	80%	2001	100%	100%	100%	10.02
See F21_SHADO	Ś	8	×0	×0	26%	32%	51%	100%	100%	100%	100%	100%
500 F22 RROOF	<b>%</b> 6	25%	34%	51%	74%	79%	92%	100%	100%	100%	100%	100% F22
510F23 BNSL	2	2	2	2	ą	æ	2	2	2	90	2	2
511 F24_BNSL	ę	20	5	5%	19%	24%	59%	100%	100%	100%	100%	100%
512F25, CINSI	ğ	ž	33%	46%	65%	84%	95%	100%	100%	1007	100%	100%
513 F26_SMND	2	8	2	2	5	2	2	2	2		2	2
SI4FZ7_WINDF	20	11%	41%	484	76%	<b>%</b> 98	95%	100%	100%	100%	100%	100%
515F28_WHBLA	84%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
516F29_HMHP	ę	5%	5%	<b>38%</b>	%85	786	286	100%	100%	100%	100%	100%
517F30 SPEST	100%	100%	100%	1001	100%	100%	100%	100%	100%	100%	100%	100%
510F31_FEST	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
510 FR DESUP	ž	21%	46%	<b>26</b> %	81%	96%	100%	100%	100%	100%	100%	1002
520 F33 PMH	20	20	13%	13%	100%	100%	100%	100%	100%	100%	100%	100%
FX TRWF	2	3	2	g	ą	2	2	B	2	臣	2	2
522 F36 HOISR	1001	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
523 F36 MSUMP	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
524 F37_PV	2	2	Z	ą	æ	2	2	2	ä	2	2	2
525 F38, WND.	20	Ś	<b>X</b> 0	20	Š	20	**1	100%	100%	100%	100%	100%
526 F39_MCCM	56%	306	21%	34%	242	288	288	100%	100%	100%	100%	100%
527F40_SOLS	<b>X</b> 0	30	<b>X</b> 6	13%	31%	51%	75%	100%	100%	100%	100%	100%
528, 11_SOLWH	Ś	20	*0	5%	350	100%	100%	100%	100%	100%	100%	100%
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Fr3_SOLMB	×0	20	×0	Ś	, <b>%</b> 0	<b>%</b> 0	25 26	100%	100%	100%	100%	100%
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534 F47_DOONP	8	క	13%	36%	51%	87%	97%	100%	100%	100%	100%	100%
535 F46_MITTA	Ś	Š	4	1%	31%	46%	54%	100%	100%	100%	100%	100%
536 F49 SMOTH	6%	28%	52%	64%	<b>8</b> 6%	97%	37%	100%	100%	100%	100%	100%
537 F50, M.OTR	20%	58%	88%	37%	97%	100%	100%	100%	100%	100%	100%	100%
530 F51 LINOTR	20%	58%	88%	37%	97%	100%	100%	100%	100%	100%	100%	100%
519 F52_SVS0	5	Ś	×0	*0	*0	47%	47%	100%	100%	100%	100%	100%
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 Table E-4. Core Main (Linking) Spreadsheet - Formula View (page 1 of 12 pages)

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				<u> 2</u>		-SUM(E64:E117)	=SUM(E125:E178)	=SUM(E106:E239)	=SUM(E247:E300)	<u>=SUM(E308 E361)</u>
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0		a				=SUM(D64:D117)	≠SUM(D125:D178)	=SUM(D186:D239)	=SUM(D247:D300)	-SUM(D308,D301)
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U		ų				SUM(C64.C117)	=SUM(C125:C178)	=SUM(C186.C239)	=SUM(C247.C300)	=SUM(C308.C361)
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		ngs rolled over I limitations (Budget) in 1000s of dollers			tion removed)	bels	s inga (1000a ol Ničtua)	as Vings (Likowaka)	rings sevings (1900s of dollars)	samge
	DATA	Fraction (0.1) tor cost savings rothed over 0 Annual investment hunding Instations (Bu	0	Weights for Objectives E5 0	LOGIC Multiple Objective Function (validate with zero coeff removed) ±018*842+E18*847	Tatal annual investment costs =SUM(B64.B117)	Total annual anaugy savings -SUMA(8125.8176) Grand total anargy anvin -SUMA(830.M30)	Total envirol demand servings =SUM(B186 B239) Grand total demand servin =SUM(B35 M35)	Totel ennuel cost sevings «SUM(8247.8300) Grand totel costs sevin «SUM(840.M40)	Total annual anvironmental SUM(8308 8361)
			1.4 Budget			9222				

formula Vie
le E-4. Core Main (Linking) Spreadsheet - H (page 2 of 12 pages)

<	8	J	0	9
	Grand sets centromental savings (stone) -SUM(845.M45)			
	Ammud budget + cost savings rolled over from previous year			
		fy85	fy96	fy97
	eee budget	=C14+\$B11*B40	=D14+\$B11*C40	=E14+\$B11*D40
	Enforcement of cost limit			
	unused amount shown			
	<u>h94</u>	fy95	fy96	fy97
	-814-827	=C51-C27	=D51-D27	=E5t-E27
	LHKCS (Nets to other spradeheets)			
	Total annual investment costs by ECO			
	(do not copy down, can copy across) tuat	1495	1v95	1487
FOI 2X4FL	-12-540-1225F01"88302	='C-540:r22F01'IC\$302	='C-540:r22F01'ID\$302	='C-540:r22F01'IE\$302
FR2 COMPL	='C-540:r22F0218\$302	='C-540:r22F02'IC\$302	='C-540:r22F02'!D\$302	='C-540:r22F02'IE\$302
Fos EQUT	='C-540:r22F03'18\$302	='C-540:r22F03'IC\$302	*'C-540:r22F03'ID\$302	='C-540:r22F03' E\$302
For_OCSEN	='C-540:r22F04'B\$302	='C-540:r22F04'IC\$302	='C-540:r22F04'ID\$302	='C-540:r22F04'IE\$302
FOS SLANP		='C-540:r22F05'IC\$302	='C-540:r22F05'ID\$302	='C-540:r22F05'lE\$302
F06_OLTCN		='C-540:r22F06'IC\$302	='C-540:r22F06'ID\$302	='C-540:r22F06'IE\$302
FO7_CONLL	معذريه	='C-540:r22F07" C\$302	='C-540:r22F07'ID\$302	='C-540:r22F07'IE\$302
FOG. PTHRM	= C-540:r22F0818\$302	='C-540:r22F08'IC\$302	='C-540:r22F08'ID\$302	"C-540:r22F081E\$302
FOR MECK			= C-540:122F09 104302	= 0-540:122F-09 [E\$302
		= C-540-122F 10 104302 ='C-540-122F 11 104302	='0-540:r22F10105302 ='0-540:r22F11'105302	= C-340/122F1U1E3502 ='C-540*799F11' F3302
FI2 NEGAS		='C-540:r22F12'IC\$302	='C-540:r22F12'ID\$302	='C-540:r22F12'IE\$302
F13 COH	='C-540:r22F15'IB\$302	='C-540:r22F13'IC\$302	='C-540:r22F13'ID\$302	='C-540:r22F13'IE\$302
FIA GSHP	='C-540:r22F14'1B\$302	='C-540:r22F14'IC\$302	='C-540:r22F14'ID\$302	='C-540:r22F14'1E\$302
FIS RUE		='C-540:r22F15'IC\$302	='C-540:r22F15'ID\$302	='C-540:r22F15'JE\$302
F16_DUCT	='C-540:r22F16'18\$302	='C-540:r22F16'iC\$302	='C-540:r22F16'ID\$302	='C-540:r22F16'IE\$302
FI7_HEEAC	='C-540::22F17'I8\$302	='C-540:r22F17'JC\$302	='C-540:r22F17'ID\$302	='C-540:r22F17'IE\$302
FIB_EMCS	='C-540:r22F10'10\$302	='C-540:r22F16'IC\$302	='C-540:r22F181D\$302	='C-540:r22F18'JE\$302
F19_CHP	='C-540:r22F19'13\$302	='C-540:r22F19'IC\$302	='C-540:r22F19'ID\$302	='C-540:r22F18'!E\$302
F20 RADBR	1	='C-540:r22F20'1C\$302	*'C-540:r22F20'ID\$302	='C-540:r22F20'IE\$302
F21_SHADD	='C-540:r22F21'18\$302	='C-540:r22F21'IC\$302	='C-540:r22F21'ID\$302	='C-540:r22F21'IE\$302
F22 RROOF	='C-540:r22F22'1B\$302	='C-540:r22F22'IC\$302	='C-540:r22F22'ID\$302	='C-540:r22F22'IE\$3n2
F23_ENSL	='C-540:r22F23'l8\$302	='C-540:r22F23'IC\$302	='C-540:r22F23'ID\$302	='C-540:r22F23'IE\$302
F24_BINSL		='C-540:r22F24' <b>!C\$</b> 302	='C-540:r22F24'ID\$3C2	=`C-540:r22F24'1E\$302
F25 CINSI		='C-540:r22F25'iC\$302	='C-540:r22F25'ID\$302	='C-540:r22F25'jE\$302
F26_SWIND		='C-540:/22F26'IC\$302	='C-540:r22F26'ID\$302	='C-540:r22F26'!E\$302
F27_WINDF	=`C-540:r22F27'IB\$302	='C-540:r22F27'fC\$302	='C-540:r22F27'ID\$302	='C-540:r22F27'IE\$302
E20 WARDIA		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	-'r 540.00000000000000000000000000000000000	

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- Formula
Core Main (Linking) Spreadsheet (page 3 of 12 pages)
Table E-4.

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92 F29 HMP	="C-540:r2".F29*19\$302	='C-540:r22F29'iC\$302	='C-540:r22F29'ID\$302	='C-540:r22F29'IE\$302
03 F20 SHEST	]='C-540:r22F30'IB\$302	='C-540:r22F30'IC\$302	='C-540:r22F30'ID\$302	='C-540:r22F30'IE\$302
14 F31 FREST	-C-640:r22F31'18\$302	='C-540:r22F31'IC\$302	='C-540:r22F31'ID\$302	-C-540-22F314F\$302
16 Fre DESUP	='C-540:r22F32'18\$302	-'C-540:122F32'IC\$302	='C-540:r22F32'ID\$302	='C-540:r22F32'IE\$302
HINH ESS HINH	='C-540:r22F33'18\$302	='C-540::22F33'IC\$302	='C-540:r22F33'ID\$302	='C-540;r22F33'IE\$302
17 FALTRANE	='C-540:r22F34't8\$302	='C-540:r22F34'fC\$302	='C-540:r22F34'ID\$302	='C-540:r22F34'IE\$302
-	C-540:r22F36784302	='C-540:r22F35'IC\$302	='C-540:r22F35'ID\$302	"'C-540:r22F35'IE\$302
00 Fag. MSUMP	='C-540:r22F3678\$302	='C-540:r22F36'hC\$302	='C-540:r22F36'tD\$302	='C-540:r22F36'[E\$302
	='C-540:r22F3718\$302	='C-540:r22F37'iC\$302	='C-540::22F37'ID\$302	='C-540:r22F37'jE\$302
	='C-640:r22F3#'I8\$302	='C-540:r22F38'IC\$302	='C-540:r22F38'ID\$302	"C-540:r22F38'IE\$302
	= 'C-540:r22F3978\$302	='C-540:r22F39'IC\$302	='C-540:r22F39'!D\$302	='C-640:r22F39'IE\$302
	='C-540:r22F40'18\$302	='C-540:r22F40' C\$302	='C-540:r22F40'ID\$302	-'C-540:r22F40'jE\$302
INT SOLWH	='C-540:r22F41'IB\$302	='C-540:r22F41'IC\$302	='C-540:r22F41'ID\$302	='C-540:r22F41'jE\$302
105 HZ SOLM	="C-640:r22F42"8\$302	='C-540:r22F42'IC\$302	='C-540:r22F42'ID\$302	='C-540:r22F42'JE\$302
106 F43_SOUNB	='C-540:r22F43'18\$302	='C-540:r22F43'IC\$302	='C-540:r22F43'ID\$302	='C-540:r22F43'IE\$302
107 FM RHHG	='C-540:r22F44'88\$302	='C-540:r22F44'iC\$302	='C-540:r22F44'ID\$302	='C-540:r22F44'IE\$302
100 F46, ECONP	a'C-540:r22F45't8\$302	='C-540:r22F45'IC\$302	='C-540:r22F45'}D\$302	='C-540:r22F45'jE\$302
100 Fee. EHP	='C-540:r22F46'18\$302	='C-540:r22F46'IC\$302	='C-540:r22F46'ID\$302	='C-540:r22F46'jE\$302
110 F47_DOONP	='C-540:r22F47'IB\$302	='C-540:r22F47'iC\$302	='C-540'122F47'ID\$302	='C-540:r22F47'iE\$302
111F48_MITHR	='C-540:r22F48*18\$302	='C-540:r22F48'IC\$302	='C-540:r22F48'ID\$302	='C-540:r22F48'IE\$302
112 Fee SWOTH	<b>]='C-640:r22F49'B\$3</b> 02	='C-540:r22F49'IC\$302	='C-540:r22F49'ID\$302	*'C-540:r22F49'IF5302
113 FEO MADTR	='C-540:r22F50'lB\$302	='C-540:r22F50'IC\$302	='C-540'122F50'ID\$302	
114 FSI LINDTR	='C-540:r22F51't8\$302	='C-540:r22F51'IC\$302	='C-540:r22F51'ID\$302	-C-540-025511E5302
115 FS2 SVSD	="C-640:r22F52'I8\$302	='C-540-r22F52'IC5302	='C540-100E50'ID4300	
116 FS3_MVSD	='C-540:r22F53'18\$302	='C-540:r22F53'IC\$302		
117 FSA LVSD	='C-540:r22F54'IB\$302	='C-540-r22F54'IC\$302		
11				= C-340:122F34 1233U2
121				
122	Total annual energy autinois by ECO			
123				
124	[y94	fy95	1496	1497
125F01_2X4FL	*'C-540:r22F01'8\$362	='C-540:r22F01'iC\$362	='C-540:r22F01'jD\$362	='C-540:r22E01'IE\$362
126F02_COMFL	='C-540:r22F02'18\$362	='C-540:r22F02'IC\$362	='C-540:r22F02'ID\$362	='C-540:r22F02'E\$362
	='C-540:r22F03'B\$362	*'C-540:r22F03'IC\$362	='C-540:r22F03'fD\$362	='C-540:r22F03'IE\$362
	='C-540:r22F04'185362	='C-540;r22F04' C\$362	*'C-540:r22F04'ID\$362	='C-540:r22F04'IE\$362
	= C-540:122F05'18\$362	='C-540:r22F05'lC\$362	=`C-540:r22F05']D\$362	='C-540:r22F05'IE\$362
130-06 OLICN	="C-540:r22F06'8\$362	='C-540:r22F06' C\$362	='C-546:r22F06'ID\$362	='C-540:r22F06'IE\$362
THOM WILL	= C-540:r22Fu7185362	='C-540:r22F07'tC\$362	='C-540:r22F07'{D\$362	='C-540:r22F07'IE\$362
	= C-540:r22F00184362	='C-540:r22F08'iC\$362	='C-540:r22F08'I0\$362	='C-540:r22F08'IE\$362
	- C-340.7227.09185362	='C-540:r22F09'IC\$362	C-540:r22F09'ID\$362	='C-540:r22F09'iE\$362
		='C-540;r22F10'IC\$362	='C-540:r22F10'{D\$362	='C-540:r22F10'IE\$362
I SELLI TEURS		='C-540:122F11'IC\$362	='C-540:r22F11'ID\$362	='C-540:r22F11'IE\$362
		='C-540:r22F12'IC\$362	='C-540:r22F12'1D\$362	='C-540:r22F12'IE\$362
	± U-54U:[227 13 184362	='C-540:r22F13'IC\$362	='C-540;r22F13'ID\$362	='C-540:r22F13'IE\$362

View	
- Formula	
Main (Linking) Spreadsheet	(page 4 of 12 pages)
Core	
Table E-4.	

COLO CITO COLO		-	0	
	='C-540:r22F147B\$362	='C-540:122F14'IC\$362	='C-540:r22F14'ID\$362	='C-640:r22F14'IE\$362
		×-U-940:1221-19-10-9982	=	=.C-940;[227]0]E9362
Fie Duct	='C-540::22F16'18\$362	C-540:122F161C\$362	=`C-540:r22F16'10 <b>\$</b> 362	-'C-540:r22F16'{E\$362
I I I FI7_HEAC	="C-540:122F1718\$362	='C-540:r22F17'IC\$362	='C-540:122F17'ID\$362	"'C-640:r22F17'IE\$362
112FIG ENCS	="C-540:r22F1818\$362	='C-540:r22F18'IC\$362	='C-540:r22F18'ID\$362	='C-540:r22F18'1E\$362
113F19 GHP	="C-540::22F19'IB\$362	='C-540:r22F1 <b>\$'IC\$</b> 362	='C-540:r22F19'tD\$362	='C-540:r22F19'IE\$362
144 F20 RADBR	="C-540:r22F20'lB\$362	='C-540:r22F20'IC\$362	='C-540:r22F20'tD\$362	='C-540:r22F20'iE\$362
145F21 SHADD	= C-540::22F21'18\$362	='C-540:r22F21'IC\$362	='C-540:r22F21'ID\$362	='C-540:r22F21'IE\$362
116F2 PROOF	='C-540:122F22'IB\$362	='C-540:r22F22'IC\$362	- C-540:r22F22'tD\$362	='C-640:r22F22'IE\$362
117F23 ENSL	*C-540:r22F231B\$362	='C-540:r22F23'fC\$362	='C-540:r22F231D\$362	='C-540:122F23'IE\$362
I A P F2A BINS	* C. 540-122F241A5362	-C-540-22F24'C540-	C540-122F24'f0\$362	CAFAT'L40-048-0'-
			= c-s40.122Fzs 104302	= U-340:727-23 [E\$302
TRUE SWIND	='C-540:r22F26'88\$362	*`C-540:/22F26'{C\$362	='C-540:r22F26'ID\$362	× 13-540:122F26'E\$362
151F27_WINDF	='C-540:r22F27'IB\$362	='C-540:122F27'IC\$362	_'C-540:122F27'ID\$362	='G-540:122F27'IE\$362
152F28_WHBU	\	='C-540:122F26'IC\$362	-C-540:r22F28'ID\$362	=*C-540:r22F28'IE\$362
152 F29 HMHP	="C-5 10:122F2918\$362	='C-540:r22F29'IC\$362	='C-540:r22F29'ID\$362	='C-540:122F29'IE\$362
IS4F30 SREST	='C-540.12?F30'18\$362	='C-540:r22F30'iC\$362	='C-540;r22F30'ID\$362	='C-540:r22F30'IE\$362
155F31 FREST	= [= 'C-540-1221-11'19\$362		-'C-540-r22E311D\$362	
1546 TO DESID	-T. 640-23512'88155	-10.510.035533906369		
		300001301331345-0 -		
				= 0-940:1221-33 (E\$302
TO BE ALL THAT	-	='C-540:r22F34'IC\$362	='C-540:r22F34'ID\$362	-'C-540:r22F34'lE\$362
150FX HOSH	-	='C-540:r22F35'lC\$362	='C-540:r22F35'}D\$362	='C-546:r22F35' E\$362
160F36_MSUMP		='C-540:r22F36'IC\$362	='C-540:r22F36'tD\$362	='C-540:r22F36'lE\$362
161[F37_PV		='C	='C-540:r22F37'ID\$362	='C-540:r22F37'IE\$362
162 F38, WINDE		C-540:r22F38'IC\$362	='C-540:r22F38'ID\$362	='C-540:r22F38'IE\$362
163 F39_MICON	='C-540:122F39'18\$362	±'C-540:122F39'IC\$362	='C-540::22F39'ID\$362	='C-540:r22F39'IE\$362
164F40 SOLSI	='C-f 40:#22F 40'18\$362	='C-540:122F40'iC\$362	='C-540-22F40'ID\$362	-'C.540-00E40'E4360
165F41 SOLWH	4	-10.540-23541406462		
FAD SOLMI	-		200001111222000-0-0-0	
		= 0-940.[22142]0\$382	='C-540:r22F42'ID\$362	='C-540:r22F42'IE\$362
		='C-540:f22F431C\$362	-C-540:r22F431D\$362	='C-540:r22F43'IE\$362
	-C-540:122F44'H5362	='C-540:j22F44'lC\$362	='C-540:r22F44'ID\$362	='C-540:r22F44'IE\$362
1691-45 ECONP	='C-540:r22F45'IB\$362	='C-540:j22F45'IC\$362	='C-540:r22F45'ID\$362	='C-540:r22F45'IE\$362
170F46_EHP	-	='C-540:122F46'IC\$362	='C-540;r22F46'ID\$362	='C-540:r22F46' E\$362
F47_DCONP		='C-540:122F47'IC\$362	='C-540:r22F47'ID\$362	='C-540:r22F47'IE\$362
F40_WHIPH		='C-540:r22F48'IC\$362	='C-540:r22F48'ID\$362	='C-540:r22F48'IE\$362
FIG SWUTH	= 'C-540:r22F49'1B\$362	='C-540:122F491C\$362	='C-540:122F491D\$362	
174 FS0 W.40TR	= C-540.r22F5018\$362	='C-540 r22F50'IC\$362	='C-540*22650*045	
175F51 IMOTR	1	-'C-540'-22F51''C'''		
176 FED SVSD				-040.126731 154302
177FS3 WVSD	= C.540±22553181362	= U-34U.122F32 (U-3522 10 = 10 - 2015 F2310 F252	= C-540:122F521U\$362	='C-540:r22F52'IE\$362
		= C-340.1221-340.20	='C-540:122P5371D\$362	='C-540:r22F53'tE\$362
nevi, Per	= U-340.(221-34181362	='C-540'r22F54'lC\$362	±'C-540:r22F54'tD\$362	='C-540:r22F54'lE\$362
182				

Table E-4. Core Main (Linking) Spreadsheet - Formula View(page 5 of 12 pages)

×		C	0	
184	(do not copy downward, can copy across)			
185	h94	(y95	1796	1y97
100 F01_2X4R	='C-540:r22F01'18\$422	='C-540:r22F01'fC\$422	='C-540:r22F01'\D\$422	='C-540:r22F01'jE\$422
187 For CONFL	='C-540:r22F02'18\$422	='C-540:r22F02' C\$422	"'C-540:r22F02'ID\$422	='C-540:r22F02'IE\$422
199 FOS EDUIT	='C-540:r22F03'18\$422	='C-540:r22F03'IC\$422	"'C-540:r22F03'ID\$422	='C-540:r22F031E\$422
1 B FM OCSEN	='C-540:r22F04'18\$422	='C-540:r22F04'IC\$422	='C-540:r22F04'ID\$422	='C-540:;22F04'IE\$422
190 FOS SLANP	='C-540:r22F05'18\$422	='C-540:r22F05'fC\$422	='C-540:r22F05'ID\$422	='C-540:r22F05'IE\$422
191 F08_ OLTON	='C-640:r22F06'IB\$422	='C-540:r22F06')C\$422	='C-540:r22F06'ID\$422	='C-540:r22F06'IE\$422
192 FOT_CONLL	='C-540:r22F07'1B\$422	='C-540:r22F07'IC\$422	='C-540:r22F07'ID\$422	='C-540:r22F07'IE\$422
193 FOB PTHRM	='C-540:r22F08'i8\$422	='C-540:r22F08'IC\$422	='C-540:r22F08'ID\$422	='C-540:r22F067E\$422
194 Foe MBOR	]='C-540:r22F09'IB\$422	='C-540:r22F09'IC\$422	"'C-540:r22F09'ID\$422	='C-540::22F09'IE\$422
195F10_COOLS	='C-540:r22F10'18\$422	='C-540:r22F10'fC\$422	='C-540:r22F107D <b>\$</b> 422	='C-540:/22F10'IE\$422
106 FIL HEGAS	='C-540:r22F11'18\$422	='C-540:r22F11'IC <b>\$</b> 422	='C-540:r22F11'ID\$422	=`C-540:r22F11'IE\$422
197 FI2 NEGAS	='C-540:r22F12'18\$422	='C-540::22F12'IC\$422	='C-540:r22F12'ID\$422	='C-540:122F1271E\$422
100 F13_GCHL	='C-540:r22F13'1B\$422	='C-540:r22F13'}C\$422	*'C-540:r22F137D5422	='C-540:122F13'IE\$422
199 FI4_GSHP	='C-540:r22F14'l8\$422	='C-540:r22F14'}C\$422	='C-540:r22F147D\$422	='C-540:r22F14'IE\$422
200F15.F.UE	='C-540:r22F15'18\$422	='C-540:r22F15')C\$422	='C-540:r22F15'ID\$422	='C-540:r22F15'E\$422
201 FIG DUCT	='C-640:r22F16'l8\$422	='C-540:r22F16'IC\$422	='0-540:r22F161D\$422	='C-540:r22F16'IE\$422
202 F17_HEEAC	='C-540:122F17'18\$422	='C-540:r22F17'jC\$422	='C-540:r22F171D\$422	='C-540:122F171E\$422
201 FIA ENCS	='C-640:r22F16'l8\$422	"C-540:r22F18'IC\$422	='C-540:r22F16'ID\$422	='C-540:r22F18'IE\$422
204 F10 GHP	='C-540:r22F10'IB\$422	='C-540:r22F19'IC\$422	='C-540:r22F19'ID\$422	='C-540:r22F191E\$422
205 F20 RV08R	='C-540:r22F20'IB\$422	='C-540:r22F20'IC\$422	='C-540:r22F20'ID\$422	*'C-540:r22F201E\$422
200F21_SHADD	='C-640:r22F21'[8\$422	='C-540:r22F21'1C\$422	='C-540:r22F21' <b>ID\$4</b> 22	='C-540:r22F21'IE\$422
201122 1100	= C-540;722F22185422	#'C-540:122F22'IC\$422	='C-540:r22F22'ID\$422	='C-540:r22F22'!E\$422
	= \``94U: ZZFZ3  B44ZZ  _'[540:-99594':D6443	='C-540:r22F23'IC5422	='C-540:r22F23'ID\$422	='C-540:r22F23'IE\$422
210FX CNS		= 0-540/722F24706422	= C-540:r22F241D\$422	#'C-540:r22F24'jE\$422
211F26 SWND	=	=	= C-540:722F25TD4422	='C-540:r22F25'jE\$422
	='C-540:122F27'185422	- 0-540-1227-2010 -0-540-1225-2010 -0-540-1225-2010	= 0-040//22728 [JJ4422 _^^64003597*iN4400	-'C-540:r22F26'jE\$422
213 F26 WHBLA	='C-540:r22F28'18\$422	='C-540:r22F28'IC5422	-0.3101125151104725	77621/7777/04C-0 = 77621/7777/04C-0 =
214 F29 HMHP	="C-540:r22F29'15\$422	='C-540:r22F29'IC\$422	='C-540:r22F29'ID5422	= C-540:122F291E5472
216F30 SREST	='C-540:r22F30'18\$422	='C-540:r22F30'IC\$422	='C-540:r22F30'ID\$422	='C-540:r22F307E\$422
216F31_HEST	='C-540:r22F31'l8\$422	='C-540:122F31'IC\$422	='C-540:r22F31'ID <b>\$</b> 422	='C-540:r22F31'E\$422
	= C-640:122F3218\$422	='C-540:122F32'IC\$422	='C-540:r22F32'ID <b>\$</b> 422	='C-540:r22F32'JE\$422
	I= C-94U:[22F33][84422	='C-540:r22F33'IC\$422	='C-540:r22F33'ID\$422	='C-540:r22F337E\$422
		='C-540:122F34'IC\$422	='C-540:r22F34'1D\$422	#'C-540:r22F34'JE\$422
	= 0-940;[22733]84422 	='C-540:122F35'IC\$422	='C-540:r22F35' <b>!D\$4</b> 22	='C-540:r22F35'IE\$422
		='C-540:122F36'IC\$422	='C-540:r22F36' <b> D</b> \$422	=`C-540:r22F36'jE\$422
223 E36 WINTE		='C-540:r22F37'IC\$422	='C-540:r22F37' <b>iD\$4</b> 22	='C-540:r22F37'IE\$422
		='C-540:r22F38'IC\$422	='C-540:r22F3 <b>8'ID\$4</b> 22	='C-540:r22F38'IE\$422
	= C-34U;[22F39][84422 ^.5_540-445[40:194405	='C-540:r22F39'fC\$422	='C-540:r22F39'ID <b>\$4</b> 22	='C-540:r22F39'IE\$422
225 E41 COLUMN	- 0-340.122740 (03422	='C-540:r22F40'IC\$422	='C-540:r22F40'ID <b>\$</b> 422	='C-540:r22F40'IE\$422
227 FLO SOLW		='C-540:r22F41'fC\$422	='C-540::22F41'ID <b>\$</b> 422	='C-540::22F41'jE\$422
228 FAS SOLVID		='C-540:r22F42'IC5422	='C-540:r22F42'ID\$422	='C-540:r22F42'tE\$422
228 F4 RFRG	= V-444.166F44.104422 #*C-540-r99F44.106499	= C-54U:122F431C5422	='C-540:r22F43'ID\$422	='C-540:r22F43'1E\$422
		= 0-940122F4410422	= C-540:r22F441D\$422	='C-540:r22F44'IE\$422

Table E-4. Core Main (Linking) Spreadsheet - Formula View (page 6 of 12 pages)

E	45765422	ATTE ADD	77-43104-	47"E\$422	10-11-0-1-0-0	77103104	40'IE\$422	SOTE \$425	51'IE\$422	SOTELADO	-531E\$422	54'IE\$422								TANGE 483			-03'IE\$482		-001E\$482	-06'IE\$482	071E\$482	APIC 400		-09TE\$482	-10'IE\$482	117E\$482	12'IE\$482	1315 5482	14765482		2010101	-16'lE\$482	-171E\$482	181ES482	10155482	DOILE 4 PO		70443117	22'IE\$482	-23'IE\$482	24'IE3482	25'IE\$482	26'EE482	271F\$482	04/15 4A0	
	-C-540:722F45'E5422		1771: N+0-0 =	='C-540:r22F47"E\$422		1771-040-0 =	='C-540:r22F49'IE\$422	"C-540-122556195422	='C-540:r22F51'lE\$422	-'C540-r22F527F5422	= C-540:r22F53TE\$422	='C-540:r22F54'IE\$422							fv97	10 E40-00E014EE400		293431201221:040-0 =	='C-540:r22F03'1E\$482	-Y540-235447564433	= C-040:1221-00.1E\$482	='C-540::22F06'E\$482	='C-540:r22F07'jE\$482	-'C. 540-22508'IC \$ 493		= C-940:1221-091E\$482	#"C-540:r22F10'1E\$482	='C-540:r22F11'1E\$482	='C-540:r22F12'1E\$482	='C-540:r22F13'IE482				='C-540:/22F16/IE\$482	='C-540:r22F17'jE\$462	='C-540:r22F18'IE\$482	='C-540:r22F19'F5482	-10.540-00500154480	2010710717217217017-0	1771:040-0 =	='C-540:r22F22'lE\$482	='C-540:r22F23'JE\$482	='C-540:r22F24'IE\$482	='C-540:r22F25'IE\$482	='C-540:r22F26'tE\$482	='C-540:r22F27'IE\$482	='C-540-72529'IF5482	
0	='C-540:r22F45'ID\$422	10 6 10 - 00 10 10 10 10 10 10 10 10 10 10 10 10	22440114221-040-0 =	='C-540:r22F47*ID <b>5</b> 422		774001 04-177 "A40-0 =	='C-540:r22F49'tD\$422	"C-540-09ES01D\$425	='C-540:r22F51'ID\$422	2.C.540-02E52105422	= C-540:r22P531U\$422	='C-540:r22F54'ID\$422							fv96	-17 EAA-22EA44DE449		= C-340:122Fu2 iD4402	='C-540:r22F03'ID\$482	-'CS40-r22EA4'IDS482	= U-04U:1227U0	='C-540;r22F06'1D\$482	='C-540:r22F07'ID\$482	='C-540'r22E08'ID\$482		= C-240.122FU8.10462	='C-540:r22F101D\$482	='C-540:r22F11'ID\$482	='C-54U:r22F12'ID\$482	='C-540:r22F13'ID\$482	='C-540:r22F14'ID\$482			= C-540:122P161U\$482	='C-540:r22F17'ID\$482	='C-540:r22F181D\$482	='C-540:r22F19'ID\$482	='C-540'r22E20'iD\$482			='C-540:r22F22'ID\$482	='C-540:r22 <b>F23'lD\$43</b> 2	='C-540:r22F24'ID\$482	='C-540:r22F25'ID\$482	='C-540:r22F26'ID\$482	='C-540:r22F27' <b>iD\$4</b> 82	='C-540;r22F28'ID\$482	='C-540'r22F29'l0482
с -	"C-540:r22F45%C\$422		= U-04UI22F46 IC4422	='C-540:r22F47'IC\$422		774401 04-1771 040-0 2	='C-540:r22F49'!C\$422	-'CS40-100E501C5400	='C-540:r22F51' <b> C</b> \$422	"C.540-r225524C\$422	='C-540;r22F53?!C\$422	='C-540;r22F54'!C\$422	•						tv95	10 E45-05E0140-185	20100100100-011 ()	= U-34U122FU22FU2	='C-540:r22F03'lC\$482	_`C540**22F04'\C\$482	= 0-34U. CU122TUFC-U	='C-540:r22F06'IC\$482	-C-540:r22F07'IC\$482	='C-540-r2250a'IC\$482		= 0-9467 BUT22FUB	=.C-540;f22F101C\$485	='C-540:r22F11'IC\$482	='C-540:r22F12'lC\$482	='C-540:r22F13'1C\$482	='C-540:r22F14'1C\$482	-'C. 540-09515'IC 440		= 0-34U122F18 10-462	='C-540:r22F17'IC\$482	='C-540:r22F18'iC\$482	='C-540:r22F19'IC5482	='C-540:r22F20'IC\$482	C.540-r095011C6480		='C-540:122F22'IC\$482	='C-540:r22F23'IC <b>\$</b> 482	='C-540:r22F24' <b> C</b> \$482	='C-540:r22F25'IC <b>\$4</b> 82	='C-540:r22F26'IC\$482	='C-540:r22F27'IC\$482	='C-540:r22F28'IC\$482	='C-540:r22E29'IC5482
8	-C-540-722645192422		2754010442211040-0.=	_'C-540-122F47'IR5422		776401041771746-7 =	<b>*'C-540:r22F49'I85422</b>	-'C640-100E60'IB6400	='C-540:r22F51' 8 <b>\$</b> 422	-10.540-03EK21R\$423	j='C-540:r22F5318\$422	='C-540:r22F54'IB\$422					Tetai anausi cost asvinos by ECO	(do not copy downward, can copy across)		-V E40-MEA44DE483		= 1-34U:1227104	a'C-540:r22F03'18\$462	-'CK40-r29E04'IR\$482	= 0-0401 (0.1771:040-0	j='C-540:r22F06'!B\$482	='C-540:r22F07'(B\$482	[='C-540:r22F08'i8\$482	-'C. \$10		20+0401 01 1771 040-0 =	i <b>='C-540::22F11'i8\$482</b>	='C-540:r22F12'1B\$482	-C-540:r22F13'IB\$482	*'C-540:r22F14'18\$482	='C-540-r22F15'IR\$482			*'C-540:r22F17'IB\$482	='C-540:r22F16'18\$482	='C-540:r22F19'18\$482	='C-540:r22F20'!B\$482	='C-540:r22F21'IB\$482			='C-540:r22F23'i8\$482	<b>='C-540:r22F24'18\$482</b>	<b>='C-540:r22F25'18\$482</b>	<b> ='C-540:r22F26'18\$482</b>	<b>='C-540:r22F27'!8\$482</b>	=`C-540:r22F28'IB\$482	='C-540:r22F29'iB\$482
V	230 FLS FOOLP		2311-40, 614	232 FAT DONP			234 F48 SMOTH	CEN MANTE	236 F51 LMOTR		23 MASO NASO	239 F54 LVSD	070	1.57	242	243	244	245	246				240 FOS EXUT	3 50 EM OCSEN	i		263 F07_CONLL	254 Fos PTHRM			200 01 01 000		s	259 F13 GCHL	260 FI4 GSHP		1		0	60	266 F19_GHP	266F20 RADBR	1					!	ONMS		~	275 - 29 HMHP

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- Formula View	
Core Main (Linking) Spreadsheet	(page 7 of 12 pages)
Table E-4.	

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F30_SREST = '	='C-540:r22F30'18\$482	='C-540:r22F30'IC\$482	="C-540:r22F30'ID\$482	='C-540:r22F30'IE\$482
1	#'C-540:r22F31'IR\$482	='C-540'r22531'IC5482	-"C540-r22E31"ID\$482	-1.5.500-023-01-2400
				70101100100000000000000000000000000000
	= U-04U.122F3Z 18\$46Z	=.0-940:125425.135425 =	='C-540;r22F327D\$482	='C-540:r22F32'JE\$482
	='C-540:r22F33'IB\$482	='C-540:122F33'JC <b>\$482</b>	='C-540:r22F33'ID\$482	='C-540;r22F33'IE\$482
200F34_TRANE =	='C-540:r22F34'{B\$48?	='C-540:r22F34'IC <b>\$48</b> 2	='C-540:r22F34'ID\$482	='C-540:r22F34'IE\$482
	=`C-540:r22F35`\B\$482	='C-540:r22F35'IC\$482	='C-540:r22F35'ID\$482	='C-540:r22F35'IE\$482
F36 MSUNP =/	='C-640:r22F36'l8\$482	='C-540:r22F36'jC\$482	='C-540::22F36'ID\$482	='C-540:r22F36'IE\$482
283 F37_PV	='C-540:122F37'jB\$462	='C-540:r22F37'jC\$482	='C-540:r22F37'10 <b>\$48</b> 2	='C-540:r22F37'JE\$482
Z	=`C-540:r22F38'i8\$482	='C-540:r22F38'IC\$482	='C-540:r22F38'ID\$482	='C-540:r22E36'IE\$482
	='C-540:r22F39'IB\$482	='C-540:122F39' C\$482	='C-540:r22F30'1D5482	='C-540-r22F30*1E5482
	='C-540:r22F4U'IB\$482	='C-540:r22F40'iC\$482	='C-540:r22F401D\$482	-C-540:r22F40'iE5482
Ir	='C-540:r22F41'IB\$482	='C-540_122F41'IC\$482	-C-540:r22F41'ID\$482	='C-540:r22F41'IE\$482
	='C-540:122F42'18\$482	='C-540:r22F42')C\$482	='C-540:r22F42'ID\$482	='C-540'c22F42'IF5482
209 F43 SOLWB =1	='C-540:r22F43'1B\$482	='C-540:r22F43'IC\$482	='C-540:r22F43'ID5482	-C-540-r22F431F5482
	='C-540:r22F44'18\$482	='C-540:r22F44'IC\$482	='C-540:r22F44'ID\$482	-C-540-122E441E5482
۵.	='C-640:r22F45'18\$482	='C-540:r22F45'IC\$482	='C-540:r22F45'ID\$482	-'C-540-r22E45'F5482
1	=`C-540-r22F46'IB\$482	-'C-540-122E46'IC5482		-10-640-799546466489
9				
				= 0-340.12274/ jE4482
	0-040.122.146 JB\$442	= C-540:7221481C\$482	= C-540; r22F46104482	"C-540:r22F46'IE5482
HONS	='C-540:r22F49'IB\$482	='C-540:r22F49'IC\$482	='C-540:r22F49'ID\$482	='C-540:r22F49'jE\$482
FSO MOTR -	='C-540:r22F50'l8\$482	='C-540:r22F50'JC\$482	='C-540:r22F50'ID\$482	='C-540:r22F50'jE\$482
F51_LMOTR =	='C-540:r22F51' B\$482	='C-540:r22F51'jC\$482	='C-540:r22F51'10\$482	='C-540:r22F51'E5482
FEE SVSD -	=`C-540:r22F52'1B\$482	='C-540:r22F52'IC\$482	='C-540:r22F52'ID\$482	-'C540-702E53"E5480
299 FE3 MVSD	='C-540:r22F53'IB\$482	='C-540:r22F53%C\$462	-C-540-02553105482	-'C-54007E54E6400
300 F54_LVSD  ='	='C-540:r22F54'iB\$482	='C-540:r22F54'tC\$482	*'C-540-r22F54'ID5482	
<b>1</b>	Total annual anvironmental arvinos by ECO			
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1 ×	[ya4	fv95	96v)	201)
	='C-540:r22F01' B\$542	='C-540:r22F01'IC\$542	='C-540-r22F01'IN5542	-'C.540-22E014E6643
لير	='C-540:r22F02'{B\$542	='C-540:r22F02'iC\$542	='C-540:r22F02'ID\$542	='C540-r22E02'IE4542
	='C-540:r22F03'l8\$542	='C-540:r22F03'IC\$542	='C-540:r22F03'IE \$542	
OCSEN	='C-540:r22F04' B\$542	"C-540:r22F04'IC\$542	='C-540:r22F04'ID\$542	
1	='C-540:r22F05'jB\$542	='C-540:r22F05'IC\$542	-C-540-222605105542	
_	='C-540:r22F06' B\$542	='C-540:r22F06'IC\$542	-C-540-122F06105542	
	='C-540:r22F071B\$542	='C-540:r22F07'IC\$542	='C-540:r22F071D\$542	-C-540-122E074E5542
-	='C-540:r22F08'IB\$542	='C-540:r22F08'tC\$542	='C-540:r22F08'ID\$542	='C-540-22E08'E6542
	='C-540:r22F09'iB\$542	='C-540.r22F09'IC\$542	='C-540:r2F09'ID\$542	='C-540-r22E09'IE4542
1	='C-540:r22F10'l3\$542	='C-540:r22F10'IC\$542	='C-540:r22F10'ID\$542	-C-540-22E10'IE 6542
	='C-540:r22F11'lB\$542	='C-540:r22F11'IC\$542	='C-540:r22F1110\$542	='C-540-r22F11'FE5542
<i>u</i> n	='C-540:r22F12' 8\$542	='C-540:r22F12'IC\$542	='C-540:r22F12'ID\$542	='C-540**22512'IES542
320F13.GCHL =(	='C-540:r22F13'IB\$542	*'C-540:r22F13'IC\$542	-:C.540:22513:D6545	
				= U-348/7221 3145543

 Table E-4. Core Main (Linking) Spreadsheet - Formula View

 (page 8 of 12 pages)

V		0	a	3	Г
322 FIS FLUE	='C-540:r22F15'18\$542	='C-540:r22F15'iC\$542	='C-340:r22F15'ID\$542	='C-540:r22F15'IE\$542	
323 FI6_DUCT	= 'C-540:122F 16'18\$542	='C-540:r22F16' C\$542	='C-540:r22F16'ID\$542	='C-540:r22F16'iE\$542	
324 FIT HEAC	-C-540:r22F17'18\$542	='C-540:r22F17' C\$542	='C-540:r22F17'ID <b>\$</b> 542	='C-540::22F17'JE\$542	
325 F18_EMCS	='C-540:r22F18'lB\$542	='C-540:r22F18'IC\$542	='C-540:r22F18'ID\$542	='C-540:r22F16'IE\$542	
326 F19_GHP	='C-540:r22F19'IB\$542	='C-540:r22F19'IC\$542	='C-540:r22F19'ID\$542	='C-540:r22F10'IE\$542	
327 F20 RADBR	='C-540:r22F20'18\$542	='C-540:r22F20'IC\$542	='C-540:r22F20'ID\$542	='C-540:r22F20'IE\$542	
320 P21_SHADD	='C-540:r22F21'i8\$542	='C-540:r22F21'IC\$542	='C-540:r22F21'ID\$542	='C-540:r22F211E\$542	-
329 F22 RROOF	='C-540:r22F22'18\$542	='C-540:r22F22'IC\$542	"C-540:r22F221D\$542	"'C-540:r22F22'JE\$542	
330 F23_ENSL	=`C-540:r22F23'18\$542	='C-540:r22F23'JC\$542	='C-540:r22F23'ID\$542	='C-540:r22F23'IE\$542	
331 F24_BNSL	='C-540::22F24'lB\$542	='C-540:r22F24'IC\$542	='C-540:r22F24'1D\$542	*'C-540:r22F24'IE\$542	
332 F25, CINSI.	='C-540:r22F25'18\$542	='C-540:r22F25'IC\$542	='C-540:r22F25'ID\$542	='C-540:r22F25'E\$542	
333 F26_SWND	*C-540:r22F26'l8\$542	='C-540:122F26'IC\$542	='C-540:r22F26'ID\$542	='C-540:r22F26'jE\$542	
334 FZ7_WINDF	='C-540:r22F27'18\$542	='C-540:r22F27'fC\$542	='C-540:r22F271D\$542	='C-540:r22F27'IE\$542	
336 F20 WHBLA	(='C-540:r22F28'18\$542	='C-540:r22F28')C\$542	='C-540:r22F28'ID\$542	='C-540:r22F28'IE\$542	
336 F29 HMHP	-C-540:r22F2918\$542	='C-540:r22F29'IC\$542	='C-540:r22F29'ID\$542	='C-540:r22F2\$'IE\$542	
337 F30 SREST	='C-540:r22F30'18\$542	='C-540:r22F30'IC\$542	='C-540:r22F30'ID\$542	='C-540:r22F301E\$542	
330 FM FREST	="C-540:r22F31'IB\$542	='C-540:122F31'IC\$542	='C-540:r22F31'ID\$542	='C-540:r22F31'lE\$542	
339 F22 DESUP	='C-540:r22F32'IB\$542	='C-540:r22F32'fC\$542	='C-540:r22F32'ID\$542	='C-540:r22F32'IE\$542	-
340 F33 HMH	='C-540:r22F33'lB\$542	='C-540:r22F33'fC\$542	='C-540:r22F33'ID\$542	='C-540:r22F331E\$542	
341 F34_TRANE	='C-640:r22F34'18\$542	='C-540:r22F34'{C\$542	='C-540:r22F34'ID\$542	='C-540:r22F34'IE\$542	
342 F36 H06R	='C-640:r22F35'l8\$542	='C-540:r22F35'IC\$542	='C-540:r22F35'tD\$542	='C-540:r22F351E\$542	
343 F36 MSUMP	]='C-540:r22F36'l8\$542	"C-540:122F36'fC\$542	='C-540:r22F36'ID\$542	='C-540:r22F36'1E\$542	
344 F37_PV	='C-540:r22F37'I8\$542	='C-540:r22F37'IC\$542	='C-540:r22F37'ID\$542	='C-540:r22F371E\$542	
343538.44.06	='C-540:r'?F38'18\$542	='C-540:f22F38'IC\$542	='C-540:r22F38'ID\$542	='C-540:r22F38'IE\$542	
u,	='C-540:r22F30'IB\$542	='C-540:r22F39'lC\$542	='C-540:r22F39'ID\$542	='C-540:r22F39'IE\$542	فدجي
	='C-540:r22F40'IB\$542	='C-540:j22F40'lC\$542	='C-540:r22F40'ID\$542	='C-540:r22F40'IE\$542	-
	='C-540:r22F41'iB\$542	='C-540:r22F41'IC\$542	='C-540:r22F41'ID\$542	='C-540:r22F41'IE\$542	~~~~
	='C-540:r22F42'!B\$542	='C-540:r22F42'IC\$542	='C-540:r22F42'ID\$542	='C-540:r22F42'IE\$542	
-	='C-540:r22F43'18\$542	='C-540:r22F43'IC\$542	**************************************	='C-540:r22F43'IE\$542	
351 F44_ AFFIG	='C-540:122F44'18\$542	='C-540:r22F44' C\$542	='C-540:r22F44'ID\$542	='C-540;r22F44'IE\$542	
352F65 E004P	="C-540:r22F45'B\$542	='C-540:r22F45'IC\$542	*'C-540:r22F45'ID\$542	='C-540:r22F45'IE\$542	
353 F46_EHP	='C-540:r22F46'IB\$542	='C-540:r22F46'IC\$542	='C-540:r22F46'ID\$542	='C-540:r22F46'IE\$542	
30414/ 000	(= C-540:122F47'IB\$542	='C-540:r22F47'IC\$542	='C-540:r22F47'ID\$542	='C-540:r22F47'IE\$542	
HHHM BH I GOL		='C-540:r22F49'IC\$542	='C-540:r22F48'ID\$542	='C-540:r22F48'IE\$542	
	= 0-540:122F49'I8\$542	='C-540:r22F49'lC\$542	='C-540:r22F49'ID\$542	='C-540:r22F49'IE\$542	
HIOME REAL TO	= C-540:r22F50'18\$542	='C-540:r22F50'lC\$542	='C-540:r22F50'ID\$542	='C-540:r22F50'IE\$542	
HIOWI LEADER	='C-540:r22F51'IB\$542	*'C-540:r22F51'IC\$542	='C-540:r22F51'ID\$542	='C-540:r22F511E\$542	
169 F22 SVSU	= 'C-540:r22F52'B\$542	='C-540:r22F52'\C\$542	='C-540:r22F521D\$542	≈'C-540:r22F52'IE\$542	
360FS3_MVSD	='C-540:r22F53'88\$542	='C-540:r22F53'IC\$542	='C-540:r22F53'!D\$542	='C-540:122F53'IE\$542	
Jac Fra LVSU	='C-540:r22F54' B\$542	='C-540:r22F54'jC\$542	='C-540:r22F54'1D\$542	='C-540:r22F54'JE\$542	
295					
364	postprocessor				
365					
366	Cumulative quantity penetration by ECO				
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Table E-4. Core Main (Linking) Spreadsheet - Formula View (page 9 of 12 pages)

Table E-4. Core Main (Linking) Spreadsheet - Formula View(page 10 of 12 pages)

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414 F46 EHP	='C-540:r22F46'18\$085	='C-540:r22F46'IC\$685	='C-540:r22F46'ID\$685	='C-540:r22F461E\$685
	<u>='C-540:r22F47'I8\$685</u>	='C-540:r22F47*C\$685	='C-540:r22F47'ID <b>568</b> 5	='C-540:r22F47'iE\$685
		262201/062201-012-01-	-'C-540-00544'D6885	-'C
		2000001011001000101010		
-	GRO&RI.0G.222.0+G-0.=	= C-240.125L20 104082	cootol ne 1771:040-0 =	
419 F51_LMOTH	-C-640:r22F51'18\$685	='C-540:122F517C5685	='C-540:r22F511D\$685	='C-540:122F51'E\$685
420 FE2_SVSD	C-540:r22F52'IB\$685	='C-540:r22F52'IC\$685	='C-540:r22F52'lD\$685	='C-540:r22F52'E\$685
421 FS3_MVSD	C-540:r22F53'IB\$685	='C-540:r22F53'IC\$685	='C-540:r22F53' D\$685	='C-540:r22F53'IE\$685
122 F54 LVSD	_:C-540:r22F54'1B\$685	='C-540:r22F54'IC\$685	='C-540:r22F54'ID\$685	='C-540:r22F54'lE\$685
123				
424				
		und that		
	(ao noi copy dominicia, can copy across) 1464	301)	202	fuer
A D D D D X A D	-CKAD-29E01'REEBO	-C-540:22F011C5680	-'C-540:22F01'ID56E0	-'C-540:/22F01'IF5880
A 2 MERS COMP	-C-540-122F02'IR4680	='C-540:r22F02'IC\$680	='C-540:r22F02'ID\$680	='C-540:r22F02'IE5580
A NO EN EN IT	-C540-202End-185880	.C.540-22F031C5480	-C-540+22503*105680	-'C-540-02503'155680
ATTEN OCSEN		='C-540:/22F04')C\$680	='C-540:r22F04'[D\$680	='C-540:r22F04'IE\$680
439 FOS SI MP		='C-540:r22F05'IC\$680	= C-540:r22F05'ID\$680	-C-540-r22F05'IE\$680
413 FOS OLTON	-C-540:r22F06'185680	='C-540:r22F06'IC4680	='C-540:r22F06'ID\$680	='C-540:r22F06'}E\$680
434 FOT CONL	='C-540:r22F07'IB\$680	='C-540:r22F07'IC\$680	='C-540:r22F07'ID\$630	='C-540:r22F07'iE\$680
435 FOB PTHAM	='C-540.r22F08'IB\$680	='C-540:r22F08'jC\$680	*'C-540:r22F08'ID\$680	='C-540:r22F08'IE\$680
436 F00 MBOIL	]='C-540:r22F09'!B\$680	='C-540:r22F09'fC\$680	='C-540:r22F09'ID\$680	='C-540:r22F09'IE\$C80
437F10 COOLS	='C-540:r22F10'1B\$680	*'C-540:f22F10'IC\$680	='C-540:r22F10'ID\$680	='C-540:r22F10'IE\$680
43 BFIL HEGKS	='C-540:r22F11'IB\$680	='C-540:122F11'IC\$680	='C-540:r22F11'ID\$680	='C-540:r22F11'IE\$680
430 FIL NEGAS	='C-540::22F12'lB\$680	*'C-540:r22F12'IC\$680	='C-540:r22F12'ID\$680	='C-540:r22F12'!E\$680
440 F13 GCH	='C-540:r22F13'l8\$680	='C-540:r22F13'IC\$680	='C-540:r22F13'ID\$680	-'C-540;r22F15 %5590
441F14_GS4P	='C-540:r22F14'l8\$680	='C-540:r22F14'IC\$680	='C-540:r22F14'ID\$680	='C-540:r22F14'(£\$680
442F15 FUE	= C-540:r22F151B4680	='C-540:r22F15'IC5680	-C-540:122F16105680	='C-540:r22F15'IE\$580
443 FIG DUCT	-C-540:r22F16'185680	='C-540:r22F16'IC\$680	='C-540:r22F16'ID\$680	='C-540:r22F16'IE\$680
444FIT HEAG	= C-540:r22F17'I8\$680	='C-540:r22F171C\$680	='C-54C.r22F171D\$680	='C-540:r22F17'IE\$680
445F18_EMCS	= C-540:r22F15'B\$680	='C-540:r22F18'IC\$680	='C-540:r22F18'ID\$680	='C-540:r22F18'jE\$6P.J
446F19_CHP	= C-540:r22F10'1B\$680	='C-540:r22F19'IC\$680	='C-540:r22F19'ID\$680	='C-540:r22F19'IE\$680
447 F20 RUDBH	='C-540:r22F20'l8\$680	='C-540:r22F20'IC\$680	='C-540:r22F20'ID\$680	='C-540:r22F20'IE <b>\$</b> 680
448 F21_SHADD	='C-540:r22F21'IB\$680	='C-540:r22F21'IC\$680	='C-540:r22F21'ID\$680	='C-540:r22F21'IE\$680
449 FZ HHOOF	='C-540:r22F22'H55680	='C-540:r22F22'IC\$680	*'C-540:r22F22'ID\$680	='C-540:r22F22'IE\$680
160F23 ENSL	='C-540:r22F23'lB\$680	#'C-540:r22f23'IC\$680	*'C-540:r22F23'ID\$680	='C-540:r22F23'IE\$680
4511-24_BINSU	='C-540::22F24'IB\$680	='C-540:r22F24'IC\$680	='C-540:r22F24'ID\$680	='C-540:r22F24'jE\$680
452F25 CINSI	='C-540:r22F25'i8\$680	='C-540:r22F25'lC\$680	='C-540:r22F25'{D <b>\$</b> 680	='C-540:r22F25'lE\$680
453 F26_SWIND	="C-540:r22F26'iB\$680	±'C-540:r22F26'lC\$680	='C-540:r22F26'ID\$680	='C-540:r22F26'lE\$680
454 F27_WNDF	a.C-540:r22F271B\$680	='C-540:r22F27'IC\$680	='C-540:r22F27'ID\$680	='C-540:r22F27'IE\$680
455[528_WHBLA	='C-540:r22F28'iB\$680	='C-540:r22F28'IC\$680	='C-540:r22F28'ID\$680	='C-540:r22F28'IE\$680
456 F29 HMHP	='C-540:r22F29'B\$680	='C-540::22F29'IC\$680	='C-540:r22F29'ID\$680	='C-540::22F29'(E\$680
467 F30 SHEST	='C-540:r22F30'IB\$680	='C-540:r22F30'lC\$680	='C-540:r22F30'ID\$680	='C-540:r22F36'jE\$680
SO FULTHEST	='C-540:r22F31'18\$680	='C-540:r22F311C\$680	='C-546:r22F31'ID\$680	='C-540:r22F31'IE\$680

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461 F.A. TRANE	='C-540:r22F34'18\$680	='C-540:r22F34'IC\$680	='C-546:r22F34'ID\$680	='C-540:r22F34'IE\$680
462 F35 HDISH	='C-540:r22F35'l8\$680	='C-540:r22F35'IC\$680	='C-540;r22F35'ID\$680	='C-540:r22F35'IE\$680
463 F36 MSUMP		='C-540:r22F36'IC\$680	='C-540:r22F36'ID\$680	='C-540:r22F36'IE\$680
464 F37_PV	='C-540:r22F37'IB\$680	='C-540:r22F37'JC\$680	*'C-540:r22F37'ID\$680	='C-540:r22F37'IE\$680
465 F30_UNDE	C-640:r22F38'lB\$680	='C-540:r22F38'jC\$680	='C-540:r22F38'ID\$680	='C-540:r22F38"IE\$680
466 F30 MICON	='C-540:r22F39'IB\$680	='C-540:r22F39'!C\$680	='C-540:r22F39'ID\$680	='C-540:r22F39'JE\$680
407 F40 SOLS		='C-540:r22F40'IC\$680	±'C-540:r22F40'ID\$680	='C-540:r22F401E\$680
HADE SOLMH		='C-540:r22F41'IC\$680	='C-540:r22F41'ID\$680	='C-540:r22F41'IE\$680
469 F42_SOLM	='C-540:r22F42'iB\$680	='C-540:r22F42'IC\$680	='C-540:r22F42'ID\$680	='C-540:r22F42'1E\$680
470 F43_SOLMB	-C-540:r22F43'IB\$880	='C-540:r22F43'IC\$60.0	='C-540:r22F43'ID\$680	='C-540:r22F43'IE\$680
471 Ful BHHG	*'C-540:r22F44'IB\$680	='C-540:r22F44'IC\$660	='C-540:r22F44'ID\$680	='C-540:r22F44'IE\$680
472 F45 ECONP	='C-540:r22F45'IB\$680	='C-540:r22F45'IC\$680	='C-540:r22F45'ID\$680	='C-540:r22F45'IE\$680
	="C-540:r22F46"IB\$680	*'C-540:r22F46'IC\$680	='C-540:r22F46'ID\$680	='C-540;r22F46'IE\$680
474 F47_DCONP	='C-540:r22F47'tB\$680	C-540:r22F471C\$680	='C-540:r22F47'ID\$680	='C-540:r22F47'IE\$680
476 F48_WITHR	='C-540:r22F48'i8\$580	='C-540:r22F48'IC\$E80	='C-540:r22F48'ID\$680	='C-540:r22F48'IE\$680
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477 F50 MAOTH	="C-540:r22F50'l8\$680	='C-540:r22F50' C\$680	='C-540;r22F50'!C\$680	='C-540: 22F50'IE\$680
478 F51 LMOTH	="C-540:r22F51'IB\$680	='C-540:r22F51'IC\$680	='C-540:r22F51'ID\$680	C.540-7225511F5680
470 F52 SVSD	='C-540:r22F52'(B\$680	='C-540:r22F52'tC\$680	='C-540-r22F52'(D\$680	-'C.54022552'5 480
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481 F34 LVSD	='C-540:r22F54' B\$680	-C-540-1225541C5680		
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468 FOI 2X4FL	='C-540:r22F01'IB\$680/\$M428	-'C-540-122E01'ICtean/tWA2E	-C.54A-29EntilCtean/tuige -C.54A-39EntilDtean/tuige -C Fia -39Entil25	
488 For CONFL	='C-540:r22F02' B\$6"0/51/429		= 0.54M¢/00000110102000040420	= U-340.122F011E4660/\$M428
400 FOS EQUT	='C-540:r22F03'tB\$680/514430			= C-540:r22FG21E\$680/\$M429
ADT FOR OCSEN	='C-540-122F04'IR\$680/\$14431			= C-940:122F031E\$680/\$M430
492 FOS SLAND	='C-540:r22F05'IB5680/5W		= C-34U:122FU4 (Up08U/pM43] = C-540:122F04'IE5680/5M43	='C-540:r22F04'IE\$680/\$M431
493 F06 OLTCN	=-C-540:r22F06'IB\$680/SW	# C-940/1227/09 [C9080/9M432 540:-22509/104660/1041400	# 0-340;izzrus (cessurendaz = 0-340;izzrus ju\$680/\$M432 ='C-540;iz2F65'E\$680/\$M432 -'C-E40:-250-840-840 (414433 - 10 F44) - 201-201-201-201-201-201-201-201-201-201-	='C-540:r22F05'IE\$680/\$M432
ABA FOT CONL	-C-540-r22E071B5680/5W			='C-540:r22F06'lE\$680/\$M432
495 FOB PTHINA	='C-540:r22F08'IB\$680/\$M435	-C-D-SAD-r22EARICSERD/SM/35	= 0-040.122F071090004M434 = 0-340.122F071040804M434 = 0-340.122F071E\$680/5M434 =(0.540.122F081)C\$680/\$M435 = 0-340.122F0710400425 = 10 E 10.540.122F071	= C-540:722F071E5680/5M434
496 FO9 MPOR	2.C-540-r22En9'IR\$680/\$14.26			= C-240.1227 08 129680/44435
497 F10 COOLS	= (C-540:r22F10'IB\$680/\$M437	= 0-340:r22r08104680/\$M438 -'0-640-r22640f06660/644436	= 0-340:r22r09	='C-540:r22F09'E\$680/\$M436
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SOOFIA COM	-'1'.540595424104660/6444455	='C-540:r22F12'IC\$680/\$M439	='C-540:r22F12'IC\$680/\$M439 ='C-540:r22F12'ID\$680/\$M459 ='C-540:r22F12'IE\$680/\$M439	='C-540:r22F12'IE\$680/\$M439
		='C-540:r22F13'IC\$680/\$M440	='C-540:r22F13'IC\$680'\$M440 ='C-540:r22F13'ID\$*80'\$M440 ='C-540:r22F13'IE\$680'\$M440	='C-540:r22F13'IÉ\$680/\$M440
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		='C-540:r22F15'IC\$680/\$M442	='C-540:r22F15'IC\$680/\$M442 ='C-540:r22F15'ID\$680/\$M442 ='C-540:r22F15'IE\$680/\$M442	='C-540:r22F15'IE\$680/\$M442
	1= C-540:122F 16'185680/\$M443	='C-540:r22F16'IC\$680/\$M443	='C-540:r22F16'IC\$680/\$M443 ='C-540:r22F16'ID\$680/\$M443 ='C-540:r22F16'IE\$680/\$M443	='C-540:r22F16'IE\$680/\$M443
SUGITIV_MEAU	= C-540:r22F17'185680/\$M444	='C-540:r22F17'IC\$680/\$M444	='C-540:r22F17'!C\$680/\$M444 ='C-540.r22F17'!D\$680/\$M444 ='C-540:r22F17'!E\$680/\$M444	='C-540:r22F17'IE\$680/\$M444
DUDITIS ENCS	j='C-540:r22F18'18\$680/\$M445	='C-540:r22F18'IC\$680/\$M445	<u>='C-540:r22F18'IC\$680/\$M445</u> ='C-540:r22F18'ID\$680/\$M445 ='C-540 <i>·r22</i> F18'IE\$880/\$M445	='C-540-22F18'1F\$680/\$14445

ه ب	- Formula View	
Table E-4. Core Main (Linking) Spreadsheet         (page 12 of 12 pages)	<b>3-4.</b> Core Main (Linking) Spread	(page 12 of 12 pages)

dou lou to ulud	='C-540:r22F19'IC\$680/\$M446 ='C-540:r22F19'ID\$680/\$M446 ='C-540:r22F19'IE\$680/\$M446 ='C-540:r22F20'IC\$680/\$M446 ='C-540:r22F20'ID\$680/\$M449 ='C-540:r22F20'IE\$680/\$M448 ='C-540:r22F21'IC\$680/\$M448 ='C-540:r22F22'ID\$680/\$M449 ='C-540:r22F22'IE\$680/\$M448 ='C-540:r22F22'IC\$680/\$M445 ='C-540:r22F22'ID\$680/\$M449 ='C-540:r22F22'IE\$680/\$M446 ma ='C-540:r22F22'IC\$680/\$M451 ='C-540:r22F22'ID\$680/\$M451 ='C-540:r22F22'IE\$680/\$M446 ma ='C-540:r22F27'IC\$680/\$M454 ='C-540:r22F22'ID\$680/\$M451 ='C-540:r22F27'IE\$6800{\$M451 ma ='C-540:r22F27'IC\$680/\$M454 ='C-540:r22F27'ID\$680/\$M451 ='C-540:r22F27'IE\$6800{\$M452 ma	-'C-540::22F19"E\$680/\$M446
day lou to ulua	-'C-540:122729'IC\$580\$W417 -'C-540:122F20'ID\$680\$W447 -'C-540:122F21'IC\$680\$W448 -'C-540:122F21'ID\$680\$W449 -'C-540:122F22'IC\$680\$W448 -'C-540:122F22'ID\$680\$W449 Ma -'C-540:122F23'IC\$680\$W451 -'C-540:122F22'ID\$680\$W451 -'C-540:122F23'IC\$680\$W452 -'C-540:122F22'ID\$660\$W452 Ma -'C-540:122F27'IC\$680\$W452 -'C-540:122F27'ID\$660\$W454	
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4. Joursoning	-'C-540::22F221C5680/\$M449 -'C-540::22F221D5680/\$M449 -'C-540::22F221C5680/\$M459 -'C-540::22F221D5680/\$M459 -'C-540::22F231C5680/\$M452 -'C-540::22F231D5680/\$M452 -'C-540::22F271C5880/\$M454 -'C-540::22F271D5680/\$M454 -'C-540::22F271C5880/\$M454 -'C-540::22F271D5680/\$M454	
. Joursaulua	na -C-540:r22F241C588045M451 -C-540:r22F2410568045M451 -C-540:r22F251C568045M452 -C-540:r22F2710568045M452 na -C-540:r22F271C588045M454 -C-540:-r22F2710568048M454 -C-540:r22F271C568045M454 -C-540:-r22F27110568048M454	
Jausalua	-"C-540:r22F241C\$8804\$M451 ="C-540:r22F241D\$6804\$M451 ="C-540:r22F251C\$6804\$M452 ="C-540:r22F251D\$6804\$M452 m ="C-540:r22F271C\$8804\$M454 ="C-540:r22F271D\$6504\$M454 ="C-540-r222F271C\$8804\$M454 ="C-540-r2252721D\$6504\$M454	- C-840:122722 154080/4448
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520 F33_ <del>HMH</del>  ='C-540:r22F33'IB\$680/\$1/466	- ACTING CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTOR - CONTRACTO	Active and a start of the of the
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P - C-540:r22F36'18\$680/	- C. C. SAD. 2016 ST. C. S. C. SAD. 2017 ST. S.	= C-B40:1227367E\$680/\$M482
2		- C-040:r22P367E\$680/\$M463
525 F38_WNUDE ='C-540:r22F38'83\$680/\$M465		
		- C-B40//22738 163680/51486
527 F40 SOLSL = C-540:r22F40184680/\$M467		-:
	C. 550: 225411C148004M416E UC SAUGASTATOTASCAMPAGI & C. 3401525401E50803M467	= 0-340:122F40 1E4680/\$M467
528 F42_SOLML ='C-640::22F42'IB\$680/\$M469	-C-540-72542)[[2480][4468 - C-240][241-2254][[240][4468 - C-240][241][[240][4468	= C-34U:[22F4] [E\$080/\$M468]
530 F43_SOLWB = C-540:122F431B\$680/\$M470		= C-54U:1227 42 1E36B0/\$M469
531 FM_AFRG = C-640::22F441B\$686/\$M471	a.C.540:25444[C4644]4414 -C.C.44414414 -C.C.4444444 - C.4444444 - C.44444444 - C.4444444444	= C-940.122F43 1E4060/3M4/0
532 F45 ECOMP In		- U-940:/22F441E\$680/\$M471
533)F46_EHP na		
534 F47_DCONP = C-540:r22F47185680/5M474	=(C-540-0254274)Ctan/tida74 =/C 440-026434)Cean/tida74 =/C	
	- 0	= U-040:r22F471E4680/\$M474
536 F49_SMOTR ="C-540:122F491B\$680/\$1476		='C-540:r22F48'JE\$680/\$M476
537 F50 MMOTH ='C-540:r22F5018\$680/\$M477	- C - C - C - C - C - C - C - C - C - C	='C-540:122F49'E5680/\$M476
		-'C-540:r22F50'lE\$680/\$M477
539 F52_SVSD = 'C-540.122 F52 185680/\$M479		='C-540:r22F51'IE\$660/\$M478
540 F53_MVSD =:C-540:122F531B\$680/\$M480		= 0-540:r22F52'IE\$680/\$M479
541 F54 LVSD = C-540: 22F54'B\$680'\$M481	- C	-'C-540:r22F53'E\$680/\$M480

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## Table E-5. EofS ECO Spreadsheet - Value View<br/>(page 1 of 7 pages)

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	FT_0R0		0.3193978		28.322716	355.36667 309.05	85	0					
	P_RCLA RULEY		0.5087644 0.4774259		134.90132		85	0					
26		0	0	0	0	0	ō	ŏ					
27	STING		0.4177422	32.48		253.75	85	0					
	Holda: Hijes		0.8373866 0.8598502		199.14399 224.46745	537.83333 581.35	85 85	0					
	87,000 77,000		0.0596202		30.363455	283.85	85	0					
11	M.M. 7.8	42.312312	0.4394232	39.7824	83.090688	310.8	85	d					
	CONCON			64.005333			45	0					
	HURCHU Jacusin		0.4173245	37.4976	80.62345 66.901963	292.95 386.4	45	0					
	F_RCK	76.381347	0.732894		273.64603		45	ŏ					(
11			0.3539918	34.5856	99.448951	270.2	85	0					
			0.4350617	42.0672		328.65	85	0					
	NUCINER F_SCLA	45.065154	0.6129222	47.607467	150.60258	371.93333	85	0					
	LINCO	-	0.5521386			420.93333	45	ő					
41	NECOT		9.0620397	5.6	15.60538	43.75	85	Ó					1
	C		0.1014522		24.992586	54.6	85	0					1
	PDNK_B Funktio	3.8967352	0.0487126	4,2112	10.491078	32.9	85 0	. 0					1
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	t and	24.126277					85	0					1
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10	UK, MP				3.8833248		46	ō					
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10			0.1606988		14.421945	183.53333	45	0					1
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4		15.829773	15.829773	18.829773	15.829773	15.829773	15.829773	15.629773	18.829773	18.829773	15.829773	15.829773	15.529773
7		21,175253	21.175253	21.175253	21,175253	21.17 <b>5263</b>	21.175253	21.178253	21.175253	21.175253	21.175283	21.178253	21.175253
76		9.0234044	9.0234058	9.0234049	9.0234059	9.0234059	9.0234059	9.0234059	9.0234059	10.0234050	18.9254054	18.929441 9.0234059	18.925441
71		0	0	0	0	0	0	0	0	0	0	Ō	0
19	BCC7Y	0.8875604	8.8875804	8.8875804	6.8875604	8.8875804	6.8875804	6.8875804	4.8875804	6.8875804	6 6875604	6 8876804	6.8875604
<u>. 11</u>		10.938225	10.03\$225	10.935225	10.935225	10.935225	10.936225	10.935225	10.935225	10.935225	10.935225	10.935225	10.935225
Ì		0,7473402 18.687947	8.7473402 18.867287	0.7473402 18.667287	0.74/34U2 18.887227	+.7473402 15.667287	a.7473402 18.687987	U.7473402 18.667987	14.447217	4.7473402	8.7473402	8.7473402	8.7473402
		8.2846951	6.2646651	6.2646951	6.2646951	6.2646951	6.2648951	6.2646951	8.2549951	0.2646951	6.2846951	8.2646951	6.2646951
11		11.387452	11.387462	11.387452	11.387482	11.387452	11.387452	11.387452	11.387452	11.387452	11.387452	11.387452	11.3874.2
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17 8	4 201015	19.2/010	10.8(010	19.3/919		(V.3/510	(V.3/816	19.2/010	10.3/916	10.37616	10.57616	10 57816	10 57616

Table E-5.	EofS ECO	Spreadsheet -	Value View
	(page 2	of 7 pages)	

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	10.235	27.823761			27.823761	27.823761		27.823781	27.823761		27.823781		27 823761
	77.322	17.116588			17.116885	17.116585		17.116585			17.116585		17.116585
	R.MTCH	9.5994287			9.5996287	9.5994247		9.5996287			9.5996287		9.5996287
	HURCHU	12.0785840				12.786648 12.078754		12.786648				12.786646	12.786646
	3038	18.435252						15.435256			15.435256		15.435256
15	7_300	10.125065			16.125065	16.125065		16.125068			14.125065	16.125065	16.125065
	LENNIN	6.2462994				6.2462994		6.2462994			8.2462994	6.2462994	6.2462994
	PT_JEE	9.5895172			9,5895172	9.5898172	9.5895172	9.5895172				9.5895172	9.5895172
	RUCHER 7_5114	10.40933	10.40633	0.000.0	0.40433	0.000.00	0.49953	0.40833	10.40933	10.40933	10.40933	10.40933	10.40933
	LINY	13.173306	-			-	13.173304	15.173306			13.173308	-	13.173308
	NAME	1.5531567	1.5531567	1.5531567	1.5531567	1.5531567	1.5831567	1.5531567	1.5531567		1.5531567	1.5531567	1 5531567
	C. 1100	\$668.1			1,8992	1.6002	1.8092	1.8992	1.8992	1.8992	1.8992	1.8992	1 8992
	PUNE_R RUNNO	0.958391	0.958391 G	0.358391	0.958391	186888.0	0.9583391	0.958391	0.958391	0.958391	0.954391	0.958391	0.956391
	WED_IV	2.0862843	-		-	•	-		2.0869843		2.0869843	2.0869843	2.0869843
	NCCELI	8.923433		4.923833	8.923833	1.923833	8.923833			0.923833	8.923833	1.923833	4.923833
	TOTAL	1.9969261			1.9969261			1.9969261	1.9969261		1.9969261		1 9969261
	WORK	1.5816983			1.5816983		1.5818983	1.5816983			1.5816983		1 5816983
	HO JAP	1.6581049			0.2246676					1.8581049	1 6581049	1 6581049	1 6581049
111	ND AND	1.0429034		1.0829034	1.0829034	1.0829034	1.0829034	1.0829034	1.0829034	1.0829034	1.0829034	1 0829034	1 0829034
112	CHEROL	11.91564			11.91564	11.91564	11.91584	11.91564	11 91564	11.91564	11.91564	11.91564	11 91564
	HANGIT	23.68974		23.68974 21.410959	23.68974 21.410959	23.88974	23.64974 21.410959	23.58974 21.410959	23.68974	23.68974	23.68974	23.68974	23.68974
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	VICTOR	13.604154			13.604154	13.604154		13.604154	13.604154	13.604154	13.604154	13.604154	13.604154
117	N 1 M	5.5808998	5.5908998	5.5908998	5.5908998		5.5904998	5.5908998	5.5908998	5.5908998	5.5908998	5.5908998	5 5908998
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## Table E-5. EofS ECO Spreadsheet - Value View(page 3 of 7 pages)

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## Table E-5. EofS ECO Spreadsheet - Value View<br/>(page 4 of 7 pages)

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Table E-5.	EofS ECO	Spreadsheet -	Value View
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# Table E-5. EofS ECO Spreadsheet - Value View(page 6 of 7 pages)

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133 136.5	Q	0	3	0	481.85877	491.85577	491.45877	481.85877	491.85577	681 48877	491 45877	401 45577
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111 MD JN	Q	0	0	4819.5	4819.4	4819.5	4619.5	4819.5	4819.5	4879.8	4819.5	4619.5
111 1000.1	4	0	15063.417	15063.417	18063.417	15053.417	18065.417	18063.417	18063.417	16063.417	15063.417	15063.417
127 10000	0	¢.	0	0	0	3	0	0	0	0	0	0
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	0	0	0	3880.78	3599.75	3899.75	3699.75	3889.78	3899.75	3589.75	3569.75	3599.75
110 12.00	9	0	0	9	0	0	0	0	0	Q	٥	0
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133 HOLDT	21439.833	21439.833	21439.833	21439.833	21439.833	21439.033	21439.833	21439.833	21439.833	21439.833	21439.833	21439.833
I FIGURE COMMENSION		33478.667	33478.687	33478.867	33478.667	33478.667	33478.667	33478.667	13478.687	33478.807	33478.667	33478 687
A GIE ANNUE	6149.5871	40668.251	40668.251	40660.251	40668.251	40668.251	40668.251	40668.251	40868.251	40666.251	40668 251	40668.251
<u>111</u> PRCDA	13050.333	10080.033	13040.333	13060.333	13080.333	13060.333	13080.333	13050.333	13050.333	13050.333	13050.333	13050.333
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# Table E-5. EofS ECO Spreadsheet - Value View(page 7 of 7 pages)

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1		22475	bis Photosom Lighting Reverts		ALC .
1		Gel B: Gauss in 1000s of deliant			
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	7 <i>3</i> 928	0	0	0	+G24-M324
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	7_NCK	0	0	0	•G35-M335
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	RET STER	0	0	0	-G38-M338
	7,321	1	0	0	=G38-M339
		0	0	0	=Q40-M340
	ANNEST COMP.C	0	0 0	0	=G41-M341 =G42-M342
	PDN B	0	å	0	=Q43-M343
	FURNE	0	à	0	+Q44-M344
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	HO, MA	0	ů.	<u>,</u>	=G48-M348
10	UC,MP	0	0	0	*G80-M380
	10.AN	0	0	0	=Q51-M351 =K452-M352
	TUDHN	0	<b>a</b>	0	*483-M363
	PERSONAL PROPERTY.	0	0	0	n384-M384
	ANDICK	٥	0	0	-Q85-M368
	PACONS	0	•	0	-G56-M356
	N.S.HR	0	0	0	=Q87-M387 =G88-M388
			0	0	-Q89-M38R
	EVOID.	0	0	0	+G60-M360
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# Table E-6. EofS ECO Spreadsheet - Formula View(page 1 of 7 pages)

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# Table E-6. EofS ECO Spreadsheet - Formula View<br/>(page 2 of 7 pages)

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	12				
	F				
Signed         141         142         142         142           Target         0         0         0         0           State         0         0         0         0         0           State         0         0         0         0         0         0           State         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0					
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3         Core C         0         0         0         0         0           3         TPREA         0         0         0         0         0         0           3         TPREA         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0	OLUM YO	_0	0	0	**
31 PDEL 0       0       0       0       0       0         31 PDE 0       0       0       0       0       0         31 PDE 0       0       0       0       0       0         31 PDE 0       0       0       0       0       0         31 PDE 0       0       0       0       0       0         31 PDE 0       0       0       0       0       0         31 PDE 0       0       0       0       0       0         31 PDE 0       0       0       0       0       0         31 PDE 0       0       0       0       0       0         31 PDE 0       0       0       0       0       0         31 PDE 0       0       0       0       0       0         31 PDE 0       0       0       0       0       0         31 PDE 0       0       0       0       0       0       0         31 PDE 0       0       0       0       0       0       0       0         31 PDE 0       0       0       0       0       0       0       0       0       0				0	-
Signap A         0         0         0         0         0           Sin DS A         0         0         0         0         0           Sin DS A         0         0         0         0         0           Sin DS A         0         0         0         0         0           Sin DS A         0         0         0         0         0           Sin DS A         0         0         0         0         0           Sin DS A         0         0         0         0         0           Sin DS A         0         0         0         0         0           Sin DS A         0         0         0         0         0           Sin DS A         0         0         0         0         0           Sin DS A         0         0         0         0         0           Sin DS A         0         0         0         0         0         0           Sin DS A         0         0         0         0         0         0         0           Sin DS A         0         0         0         0         0         0         0				0	0
Jamp Ju 0         0         0         0         0           Jamp Ju 0         0         0         0         0           Jamp Ju 0         0         0         0         0           Jamp Ju 0         0         0         0         0           Jamp Ju 0         0         0         0         0           Jamp Ju 0         0         0         0         0           Jamp Ju 0         0         0         0         0           Jamp Ju 0         0         0         0         0           Jamp Ju 0         0         0         0         0           Jamp Ju 0         0         0         0         0           Jamp Ju 0         0         0         0         0           Jamp Ju 0         0         0         0         0           Jamp Ju 0         0         0         0         0         0           Jamp Ju 0         0         0         0         0         0           Jamp Ju 0         0         0         0         0         0           Jamp Ju 0         0         0         0         0         0		•		0	0
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IT TOTAL         0         0         0         0           SHOLW 0         0         0         0         0				0	
illertory         0         0         0         0           Silvertor         0         0         0		0	-	0	9
[3] LE, APP 0     0     0     45       [3] LE, APP 0     0     0     0       [3] LERAP, 2     0     0     0       [3] LERAP, 7     0     0     0       [4] ARKER, 7     0     0     0       [5] (7) 1000000000000000000000000000000000000	BINOTIN'	0	0	0	0
III BLAY       0       0       0         III BLAY       0       0       0         III BLAY       0       0       0         III BLAY       0       0       0         III BLAY       0       0       0         III BLAY       0       0       0         III BLAY       0       0       0         III BLAY       0       0       0         III BLAY       0       0       0         III BLAY       0       0       0         III BLAY       0       0       0         III BLAY       0       0       0         III BLAY       0       0       0         III BLAY       0       0       0         III BLAY       0       0       0         III BLAY       0       0       0         III BLAY       0       0       0         III BLAY       0       0       0         III BLAY       0       0       0         III BLAY       0       0       0         III BLAY       0       0       0         III BLAY       0	SHO.MP			0	9
21 CERTOR:       0       0       0       0         21 PARCED:       0       0       0       0       0         21 PARCED:       1/198       1/198       1/198       1/198       1/198         21 PARCED:       1/198       1/198       1/198       1/198       1/198         21 PARCED:       1/198       1/198       1/198       1/198       1/198<	gur we		-		
JaveGrp 0         0         0         0         0           JaveGrp 0         0         0         0         0           JaveGrp 0         0         0         0         0           JaveGrp 0         0         0         0         0           JaveGrp 0         0         0         0         0           JaveGrp 0         0         0         0         0           JaveGrp 0         0         0         0         0           JaveGrp 0         0         0         0         0           Str.State         0         0         0         0           Str.State         0         0         0         0           Str.State         1/26         1/296         1/200           Str.State         -C387-SB68*D126         +H387-SB68*H126           Str.State         -C387-SB68*D126         +H387-SB68*H126           Str.State         -C387-SB68*D126         +H387-SB68*H126           Str.State         -SC387-SB68*D126         +H387-SB68*H126           Str.State         -SC387-SB68*D126         +H387-SB68*H126           Str.State         -SC387-SB68*D126         +H387-SB68*H126           Str.State					
Instruct         0         0         0         0           Instruct         0         0         0         0         0           Instruct         0         0         0         0         0         0           Instruct         0         0         0         0         0         0         0           Instruct         1/1000         0         0         0         0         0         0           Instruct         1/1000         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0		-	-	0	
Analysis         0         0         0         0         0           Systems         0         0         0         0         0         0           Systems         0         0         0         0         0         0         0           Grades         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0				•	
Improve 0       0       0       0       0         Zivi 5.81, 0       0       0       0       0         Sivi 5.81, 0       1/100       1/100       0       0         Sivi 5.81, 0       1/100       0       0       0       0         Sivi 5.81, 0       1/100       0       0.000       0       0         Sivi 5.81, 0       1/100       -0.000       0.0000       0.0000       0       0         Sivi 5.81, 0       10, 0       -0.0000       0.0000       0.0000       0       0.0000         Sivi 5.81, 0       10, 0       -0.0000       -0.0000       0.0000       0.0000       0.0000         Sivi 5.8000000000000000000000000000000000000		• *		-	
Algmax       0       0       0       0       0         Sint Jacobic       1       0       0       0       0         Sint Jacobic       1       1       1       0       0       0         Sint Jacobic       1       1       1       1       1       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0	1 PICON	٥	ġ.	0	
Sity_JED: 0     0     0     0     0       Sity_JED: 0     0     0     0     0       Sity_JED: 0     0     0     0     0       Sity_JED: 0     0     0     0     0       Sity_JED: 0     0     0     0     0       Sity_JED: 0     0     0     0     0       Sity_JED: 0     0     0     0     0       Sity_JED: 0     0     0     0     0       Sity_JED: 0     0     0     0     0       Sity_JED: 0     0     0     0     0       Sity_JED: 0     0     0     0     0       Sity_JED: 0     0     0     0     0       Sity_JED: 0     0     0     0     0       Sity_JED: 0     0     0     0     0       Sity_JED: 0     0     0     0     0       Sity_JED: 0     0     0     0     0       Sity_JED: 0     0     0     0     0       Sity_JED: 0     0     0     0     0       Sity_JED: 0     0     0     0     0       Sity_JED: 0     0     0     0     0       Sity_JED: 0     0 <th>THEF</th> <th>.0</th> <th></th> <th>0</th> <th></th>	THEF	.0		0	
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Image         Image         Image         Image         Image         Image         Image         Image         Image         Image         Image         Image         Image         Image         Image         Image         Image         Image         Image         Image         Image         Image         Image         Image         Image         Image         Image         Image         Image         Image         Image         Image         Image         Image         Image         Image         Image         Image         Image         Image         Image         Image         Image         Image         Image         Image         Image         Image         Image         Image         Image         Image         Image         Image         Image         Image         Image         Image         Image         Image         Image         Image         Image         Image         Image         Image         Image         Image         Image         Image         Image         Image         Image         Image         Image         Image         Image         Image         Image         Image         Image         Image         Image         Image         Image         Image         Image         Image <th< th=""><th></th><th>. v</th><th>v</th><th>u l</th><th>••</th></th<>		. v	v	u l	••
Immod         =8831         =8831+C131         =C281+D131         =C281+H131           ICMMM         =8132         =2832+C132         =C282+D132         =C282+H132           ICMMM         =8132         =2832+C133         =C281+D133         =C282+H133           ICMMM         =8132         =2832+C133         =C281+D133         =C282+H133           ICMMM         =8134         =2832+C133         =C281+D134         =C282+H133           ICMMM         =8134         =2828+C134         =C282+D134         =C282+H134           IF_JCMH         =8134         =2828+C136         =C2828+D138         =C2828+H138           IF_JCMH         =8134         =2828+C137         =C2828+D137         =C2828+H138           IF_JCMH         =8134         =2828+C137         =C2828+D137         =C2828+H138           IF_JCMH         =8139         =2828+C138         =C288+D138         =C288+H138           IF_JCMH         =8139         =2828+C138         =C288+D138         =C288+H138           IF_JCMH         =8139         =288+C138         =C288+D138         =C288+H138           IF_JCMH         =8139         =288+C138         =C288+D138         =C288+H138           IF_JCMH         =8139         =288+C138		Electron tenethint			
Immod         =8831         =8831+C131         =C281+D131         =C281+H131           ICMMM         =8132         =2832+C132         =C282+D132         =C282+H132           ICMMM         =8132         =2832+C133         =C281+D133         =C282+H133           ICMMM         =8132         =2832+C133         =C281+D133         =C282+H133           ICMMM         =8134         =2832+C133         =C281+D134         =C282+H133           ICMMM         =8134         =2828+C134         =C282+D134         =C282+H134           IF_JCMH         =8134         =2828+C136         =C2828+D138         =C2828+H138           IF_JCMH         =8134         =2828+C137         =C2828+D137         =C2828+H138           IF_JCMH         =8134         =2828+C137         =C2828+D137         =C2828+H138           IF_JCMH         =8139         =2828+C138         =C288+D138         =C288+H138           IF_JCMH         =8139         =2828+C138         =C288+D138         =C288+H138           IF_JCMH         =8139         =288+C138         =C288+D138         =C288+H138           IF_JCMH         =8139         =288+C138         =C288+D138         =C288+H138           IF_JCMH         =8139         =288+C138	3		1495	1495	1400
jjmetta         =8131         =8251+C131         =C251+D131         =C251+H131           CMBBH         =8132         =8252+C132         =C252+D132         =C252+H132           CMBBH         =8133         =255+C133         =C252+D133         =C252+H133           CMBBH         =8134         =8253+C133         =C252+D133         =C252+H133           CMBBH         =8134         =8255+C135         =C256+D134         =C256+H134           UP_JINH         =8134         =8256+C136         =C256+D135         =C256+H136           UP_JINH         =8134         =8256+C136         =C256+D136         =C256+H136           TS_JICH         =8137         =8257+C137         =C256+D137         =C256+H137           ZSUH         =6137         =8256+C136         =C256+D138         =C256+H137           ZSUH         =6138         =6256+C136         =C256+D138         =C256+H137           ZSUH         =6139         =6256+C136         =C256+D138         =C256+H138           ZSUH         =6139         =6256+C136         =C256+D138         =C256+H138           ZSUH         =8139         =6256+C138         =C256+D138         =C256+H138           ZSUH         =8139         =6256+C138         =C256+D138<	4		1		
1] BWGD         =8131         =8251+C131         =C251+D131         =C251+H131           2CMBD         =6132         =6252+C132         =C252+D133         =C252+H132           2CMBD         =6133         =C252+D133         =C252+D133         =C252+H133           4CMBD         =6133         =C252+D133         =C252+D133         =C252+H133           4CMBD         =6134         =C252+D135         =C252+D135         =C252+H134           #J_FJCD         =6135         =C252+D135         =C252+H136         =C252+H136           #_FJCD         =6136         =C252+C137         =C252+D137         =C252+H137           #_FJCD         =6137         =C252+C137         =C252+D137         =C252+H137           #_FJCD         =6138         =C252+C137         =C252+D137         =C252+H137           #_FJCD         =6138         =C252+C138         =C252+D138         =C252+H137           #_FJCD         =6138         =C252+C139         =C252+D138         =C252+D138           #_FJCD         =6138         =C252+C138         =C252+D138         =C252+D138           #_FJCD         =6139         =C252+D139         =C252+D139         =C252+D130           #_FJCD         =6130         =C250+C140	<b>i</b>	-0307-5865'0126	#C387-\$868*C126	+0367-5845*0126	4H367-5865"H126
Immod         =8831         =8831+C131         =C281+D131         =C281+H131           ICMMM         =8132         =2832+C132         =C282+D132         =C282+H132           ICMMM         =8132         =2832+C133         =C281+D133         =C282+H133           ICMMM         =8132         =2832+C133         =C281+D133         =C282+H133           ICMMM         =8134         =2832+C133         =C281+D134         =C282+H133           ICMMM         =8134         =2828+C134         =C282+D134         =C282+H134           IF_JCMH         =8134         =2828+C136         =C2828+D138         =C2828+H138           IF_JCMH         =8134         =2828+C137         =C2828+D137         =C2828+H138           IF_JCMH         =8134         =2828+C137         =C2828+D137         =C2828+H138           IF_JCMH         =8139         =2828+C138         =C288+D138         =C288+H138           IF_JCMH         =8139         =2828+C138         =C288+D138         =C288+H138           IF_JCMH         =8139         =288+C138         =C288+D138         =C288+H138           IF_JCMH         =8139         =288+C138         =C288+D138         =C288+H138           IF_JCMH         =8139         =288+C138	5				
Immod         =8831         =8831+C131         =C281+D131         =C281+H131           ICMMM         =8132         =2832+C132         =C282+D132         =C282+H132           ICMMM         =8132         =2832+C133         =C281+D133         =C282+H133           ICMMM         =8132         =2832+C133         =C281+D133         =C282+H133           ICMMM         =8134         =2832+C133         =C281+D134         =C282+H133           ICMMM         =8134         =2828+C134         =C282+D134         =C282+H134           IF_JCMH         =8134         =2828+C136         =C2828+D138         =C2828+H138           IF_JCMH         =8134         =2828+C137         =C2828+D137         =C2828+H138           IF_JCMH         =8134         =2828+C137         =C2828+D137         =C2828+H138           IF_JCMH         =8139         =2828+C138         =C288+D138         =C288+H138           IF_JCMH         =8139         =2828+C138         =C288+D138         =C288+H138           IF_JCMH         =8139         =288+C138         =C288+D138         =C288+H138           IF_JCMH         =8139         =288+C138         =C288+D138         =C288+H138           IF_JCMH         =8139         =288+C138	4	++041.0152-0310	+8068"G126-G376	**************************************	+5065"H126-H376
Impos         =8851+C131         =C251+D131         =C251+D131         =C251+D131           2CMBM         =8132         =C252+C132         =C252+C133         =C252+C133         =C252+C133           2CMBM         =8132         =C252+C133         =C252+C133         =C252+C133         =C252+C133           2CMBM         =8134         =C252+C133         =C252+C133         =C252+C133         =C252+C134           2CMBM         =8134         =C252+C135         =C252+C135         =C252+C135         =C252+C135           2CMBM         =8126+C136         =C252+C137         =C252+C137         =C252+C137         =C252+C137           2CMBM         =8135         =C252+C137         =C252+C137         =C252+C137         =C252+C137           2CMBM         =8136         =C252+C138         =C252+C137         =C252+C137         =C252+C137           2CMBM         =8136         =C252+C138         =C252+C138         =C252+C137         =C252+C137           2CMBM         =8136         =C252+C138         =C252+C138         =C252+C138         =C252+C138           2CMBM         =8136         =C252+C138         =C252+C138         =C252+C138         =C252+C138           2CMBM         =8136         =C252+C138         =C252+C138	3	Cumulation & important inhore the			•
Impos         =8851+C131         =C251+D131         =C251+D131         =C251+D131           2CMBM         =8132         =C252+C132         =C252+C133         =C252+C133         =C252+C133           2CMBM         =8132         =C252+C133         =C252+C133         =C252+C133         =C252+C133           2CMBM         =8134         =C252+C133         =C252+C133         =C252+C133         =C252+C134           2CMBM         =8134         =C252+C135         =C252+C135         =C252+C135         =C252+C135           2CMBM         =8126+C136         =C252+C137         =C252+C137         =C252+C137         =C252+C137           2CMBM         =8135         =C252+C137         =C252+C137         =C252+C137         =C252+C137           2CMBM         =8136         =C252+C138         =C252+C137         =C252+C137         =C252+C137           2CMBM         =8136         =C252+C138         =C252+C138         =C252+C137         =C252+C137           2CMBM         =8136         =C252+C138         =C252+C138         =C252+C138         =C252+C138           2CMBM         =8136         =C252+C138         =C252+C138         =C252+C138         =C252+C138           2CMBM         =8136         =C252+C138         =C252+C138	0		1.46	1.44	1-00
ICVMENt         =6132         =6285+C132         =C282+D132         =C282+H132           ICVMENt         =6132         =C282+D132         =C282+H132         =C282+H132           ICVMENt         =6134         =C282+D133         =C282+H133         =C282+H132           IP_DINt         =6134         =C282+D135         =C282+H134         =C282+H134           IP_DINt         =6134         =C282+D138         =C282+H138         =C282+H138           IP_DINt         =6136         =C282+D138         =C282+H138         =C282+H138           IP_DINt         =6137         =C282+D138         =C282+H138         =C282+H138           IP_DINt         =6137         =C282+D138         =C282+H138         =C282+H138           IP_DINt         =6138         =C282+D139         =C282+H138         =C282+H138           IP_DINt         =6138         =C282+D139 </th <th>1</th> <th></th> <th></th> <th></th> <th></th>	1				
3C/MERI         +8133         +8254-C133         +C253-D133         +C3254-D133         +C3254-H133           CDMMB         +8134         +C254-D133         +C254-D133         +C254-H133           CDMMB         +8134         +C254-D135         +C254-D135         +C254-H134           E/_DIM         +8136         +C256-D135         +C256-D135         +C256-H135           E/_DIM         +8136         +C256-D135         +C256-D135         +C256-H135           E/_DIM         +8137         +C256-D135         +C256-D137         +C256-H137           E/_DIM         +8136         +C256-D138         +C256-D138         +C256-H137           E/_DIM         +8136         +C256-D138         +C256-H138         +C256-H138           E/_DIM         +8136         +C256-D138         +C256-H138         +C256-H138           E/_DIM         +8136         +C256-D138         +C256-H138         +C256-H138           E/_DIM         +8140         +C256-D139         +C256-H138         +C256-H138	1000	+8132	+8252+G132		
41000000000000000000000000000000000000		+8103	+8253+G133	+C253+0133	
All T_ACCCD         =8136         =6256+C136         =C256+C138         =C256+C139           TS_JCCCD         =8137         =8257+C137         =C257+D137         =C257+D137         =C257+C137           TSUCCD         =8136         =C256+C136         =C256+C136         =C256+C136         =C256+C136           TSUCCD         =8139         =8256+C136         =C256+C139         =C256+C139         =C256+C139           UNICUT         =8130         =6256+C139         =C256+C139         =C256+C139         =C256+C139           UNICUT         =8140         =6250+C140         =C260+C140         =C260+C140         =C260+C140	4 08/466	+8134	#8254+G134	+C254+0134	+Q254+H134
ZI SUCCUT         =08137         =08257+C137         =C257+D137         =C257+D137           ZI WORD         =0139         =08256+C136         =C256+D138         =C256+D138           ZI WORD         =0139         =08256+C139         =C256+D139         =C256+D139           ZI WORD         =0139         =08256+C139         =C256+D139         =C256+D139           ZI WORD         =0256+C139         =C256+D140         =C256+D140         =C256+D140					
월 (2760) - 6136 62256-0138 62256-0138 62256-0138 62256-0138 62256-0138 62256-0139 62256-0139 62256-0140 62256-0140 62256-0140 62256-0140 62256-0140 62256-0140 62256-0140 62256-0140 62256-0140 62256-0140 62256-0140 62256-0140 62256-0140 62256-0140 62256-0140 62256-0140 62256-0140 62256-0140 62256-0140 62256-0140 62256-0140 62256-0140 62256-0140 62256-0140 62256-0140 62256-0140 62256-0140 62256-0140 62256-0140 62256-0140 62256-0140 62256-0140 62256-0140 62256-0140 62256-0140 62256-0140 62256-0140 62256-0140 62256-0140 62256-0140 62256-0140 62256-0140 62256-0140 62256-0140 62256-0140 62256-0140 62256-0140 62256-0140 62256-0140 62256-0140 62256-0140 62256-0140 62256-0140 62256-0140 62256-0140 62256-0140 62256-0140 62256-0140 62256-0140 62256-0140 62256-0140 62256-0140 62256-0140 62256-0140 62256-0140 62256-0140 62256-0140 62256-0140 62256-0140 62256-0140 62256-0140 62256-0140 62256-0140 622556-0140 622556-0140 62256-0140 62256-0140 62256-0140 62256-0140 62256-0140 62256-0140 62256-0140 62256-0140 62256-0140 62256-0140 62256-0140 62256-0140 62256-0140 62256-0140 62556-0140 62556-0140 62556-0140 62556-0140 62556-0140 6256-0140 6256-0140 6256-0140 6256-0140 6256-0140 6256-0140 6256-0140 6256-0140 6256-0140 6256-0140 6256-0140 6256-0140 6256-0140 6256-0140 6256-0140 6256-0140 6256-0140 6256-0140 6256-0140 6256-0140 6256-0140 6256-0140 6256-0140 6256-0140 6256-0140 6256-0140 6256-0140 6256-0140 6256-0140 6256-0140 6256-0140 6256-0140 6256-0140 6256-0140 6256-0140 6256-0140 6256					
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# Table E-6. EofS ECO Spreadsheet - Formula View(page 3 of 7 pages)

	8		1 3	
	8142	C	+C262+0142	-U282+H142
243 17,010 +1	8143	-8263+0143	+G283+0143	+Q263+H143
	<b>6</b> 146 ·	n8264+G144	+G284+0144	=Q284+H144
	8145	n8285+G146	=C265+0146	-G268+H148
	<b>6</b> 146	- A288+C148	-C266+0144	-G286+H144
242 19900 -	8148	=8268+C148	=G287+0147 =G288+0148	+Q267+H147 +Q268+H148
	6145	-8269-C148	+C250+0149	4G268>M146
	8150	-8270+C150	=C270+0180	-Q270+H150
	4111	=8271+G151	-G271+0181	+0271 ++151
	4152	=4272+C152	+C272+0152	+G272+H182
	8113 8114	•8273+G113	+G273+0153	+G273+H153
	6115	u8274+C154 =8275+C155	+C274+0154 +C275+0158	=G274+H154 =G275+H155
	4150	=8276+C156	-G278-0156	+G276+H156
	4167	+8277+G187	+C277+01\$7	+G277+H157
271 10500	4118	=6275+G158	+G278+0158	+G278+H158
3797.000		=#279+G189	+G279+0159	=Q279+H159
200100.00		+#290+C180 =#281+C181	+G280+0160	-0280-1160
281 44037 -4	6142	-8262+C162	-C281+0161 -C282+0142	+G281+H161 #G282+H162
	6163	+8283-C143	+G283+0163	#G283+M163
	6144	-6284+G184	+G294+0164	+G284+H194
211 100,00 -4	4145	=#285+G185	+G288+0135	-G285+H165
	8166	=8266-G106	-C286+0166	-G286+H166
		=8257+G167	+C287+D167	+G287+H167
28.8140,00 -4	8148 8146	=8288+C168 =8289+C169	+C288+0168 +C288+0168	=G288+H168 =G288+H168
		=8289+6170	=C290+0170	3G290+H170
291IND MP -4		+8291+G171	-C291+0171	+0291+#171
292 CHINCE -4	8172	=8292+G172	=G292+0172	+3292+H172
293		-8293+6173	+G293+0173	*G293+H173
294 MILTER +4		=8295+G175	#G294+0174 #G295+0175	+G294+M174
296 12001 -0		##298+G178	#G295+0175 #G296+0178	#G295+H175 #G296-H176
297 9 528 -		=8297+G177	+G297+0177	+G297+H177
298 0788.8 -4	6179	#8295+C178	+C298+D178	=G298+H178
299W 999		-8299+C179	+C299+0179	+G299+H179
301	- ueu -	=#300+C180	=C300+0180	=G300+H180
102				
102 303 304 306 106 107 308 508	umulative % investment of bein se			
101 101 344 108 108 107 107 107		lu <b>ed</b>	1 <b></b>	
101 101 314 108 108 107 308 Cu 309 Cu 309	94			'yoo 40311 cm101 cm101
103 303 304 305 305 307 308 307 308 309 310 311 311 312 312 312 312 312 312 312 312	184 8131+8191 8132+8192	+6311+G131+G191	+G311+0131+0191	1 <u>400</u> ad311+rr131+rr191 ad312+rr132+rr192
103 103 104 105 107 107 107 107 107 107 107 107	184 0131+0191 0132+0192 0133+0193	=8311+6131+6191 =8312+6132+6192 =8313+6133+6193	+C311+C131+C193 +C312+C132+C192 +C313+C133+C193	+(311 + H131 + H191 +(3312 + H132 + H192 +(3313 + H132 + H192
103 303 304 305 306 307 308 307 308 309 310 310 310 311 310 311 311 311 311 311	184 8131+68191 8132-68192 8133-68193 8133-68193	=8311+G131+G191 =8312+G132+C192 =8313+G133+C193 =8314+G134+G194	+G311+D131+D19} +G312+D132+D192 +G313+D133+D193 +G314+D134+D194	+0311+H131+H191 +0312+H132+H192 +0313+H132+ +93 +0313+H132+ +93 +0314+H132+ +194
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H132 + H202 43322 + H136 + H205 43325 + H136 + H205 43326 + H136 + H205 43326 + H136 + H205 43326 + H136 + H211 43326 + H136 + H211 43326 + H136 + H211 43326 + H136 + H211 43326 + H136 + H211 43346 + H136 + H211 43346 + H136 + H211 43346 + H136 + H216 4335 + H136 + H216 4335 + H136 + H216 4337 + H157 + H217 4337 + H157 + H217 437 + H157 + H157 + H217 437 + H157 + H157 + H157 +
101 103 103 103 104 103 104 107 108 107 107 107 107 107 107 107 107	124 131+6191 132+8192 132+8192 132+8193 132+8193 132+8195 132+8195 132+8195 132+8195 132+8195 132+8195 132+8195 132+8195 132+8195 132+8195 132+8203 143+8203 144-8204 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 1	08311+G131+G181         08312+G132+G182         08312+G132+G183         08314+G132+G183         08314+G132+G184         08314+G132+G184         08314+G132+G184         08314+G132+G184         08314+G132+G184         08314+G132+G184         08314+G132+G184         08314+G132+G184         08314+G142+G204         08324+G142+G203         08324+G142+G204         08324+G142+G205         08324+G142+G216         08324+G142+G216         08324+G142+G216         08324+G142+G216         08324+G142+G216         08324+G142+G216         08324+G142+G217         08324+G142+G216	<pre>«C311-0131-019) «C312-0132-0193 «C313-0133-0193 «C316-0138-0198 «C316-0138-0198 «C316-0138-0198 «C316-0138-0198 «C319-0138-0198 «C329-0148-0199 «C329-0141-0201 «C329-0141-0201 «C329-0144-0203 «C329-0144-0203 «C329-0144-0203 «C329-0144-0208 «C329-0144-0208 «C329-0144-0208 «C329-0144-0208 «C329-0144-0208 «C329-0144-0208 «C329-0144-0208 «C329-0144-0208 «C329-0144-0208 «C329-0144-0208 «C329-0144-0208 «C329-0144-0208 «C329-0144-0208 «C329-0144-0208 «C329-0144-0208 «C329-0144-0208 «C329-0144-0208 «C329-0144-0208 «C329-0144-0208 «C329-0149-0208 «C329-0149-0208 «C329-0149-0208 «C329-0149-0208 «C329-0149-0208 «C329-0149-0208 «C329-0149-0208 «C329-0149-0208 «C329-0149-0208 «C329-0149-0208 «C329-0149-0208 «C329-0149-0208 «C329-0149-0208 «C329-0149-0208 «C329-0149-0208 «C329-0149-0208 «C329-0149-0208 «C329-0149-0208 «C329-0149-0208 «C329-0149-0208 «C329-0149-0208 «C329-0149-0208 «C329-0149-0208 «C329-0149-0208 «C329-0149-0208 «C329-0149-0208 «C329-0149-0208 «C329-0149-0208 «C329-0149-0208 «C329-0149-0208 «C329-0149-0208 «C329-0149-0208 «C329-0149-0208 «C329-0149-0208 «C329-0149-0208 «C329-0149-0208 «C329-0149-0208 «C329-0149-0208 «C329-0149-0208 «C329-0149-0208 «C329-0149-0208 «C329-0149-0208 «C329-0149-0208 «C329-0149-0208 «C329-0149-0208 «C329-0149-0208 «C329-0149-0208 «C329-0149-0208 «C329-0149-0208 «C329-0149-0208 «C329-0149-0208 «C329-0149-0208 «C329-0149-0208 «C329-0149-0208 «C329-0149-0208 «C329-0149-0208 «C329-0149-0208 «C329-0149-0208 «C329-0149-0208 «C329-0149-0208 «C329-0149-0208 «C329-0149-0208 «C329-0149-0208 «C329-0149-0208 «C329-0149-0208 «C329-0149-0208 «C329-0149-0208 «C329-0149-0208 «C329-0149-0208 «C329-0149-0208 «C329-0149-0208 «C329-0149-0208 «C329-0149-0208 «C329-0149-0208 «C329-0149-0208 «C329-0149-0208 «C329-0149-0208 «C329-0149-0208 «C329-0149-0208 «C329-0149-0208 «C329-0149-0208 «C329-0149-0208 «C329-0149-0208 «C329-0149-0208 «C329-0149-0208 «C329-0149-0208 «C329-0149-0208 «</pre>	4311 +H131 +H191 43312 +H132 +H192 43313 +H132 +H192 43313 +H132 +H192 43314 +H195 43316 +H138 +H195 43316 +H138 +H195 43318 +H138 +H195 43320 +H138 +H195 43320 +H138 +H195 43320 +H138 +H195 43321 +H141 +H201 +3322 +H138 +H201 43321 +H147 +H201 43322 +H148 +H205 43328 +H148 +H205 43328 +H148 +H205 43328 +H148 +H205 43328 +H148 +H205 43328 +H148 +H205 43328 +H148 +H205 43328 +H148 +H205 43328 +H148 +H205 43328 +H148 +H205 43328 +H148 +H215 4338 +H188 +
101 103 103 103 104 105 107 108 107 107 107 107 107 107 107 107	124 131+8191 132-8192 132-8193 132-8193 132-8195 132-8195 132-8195 132-8195 132-8195 132-8195 132-8195 132-8195 132-8195 142-8203 142-8203 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 1	08311+C131+C181         08312+C132+C182         08312+C132+C182         08312+C132+C182         08314+C132+C184         08314+C132+C184         08314+C132+C184         08314+C132+C184         08314+C132+C184         08314+C132+C184         08314+C132+C184         08314+C132+C184         08321+C141+C230         08322+C143+C230         08323+C143+C231         08324+C143+C231         08324+C143+C231         08332+C143+C231         08334+C153+C211         08334+C153+C211         08334+C153+C211         08334+C153+C211         08334+C153+C211         08334+C153+C211         08334+C153+C211         08334+C153+C211	<pre>eC311+0131+0191 eC312+0192 eC312+0132+0192 eC313+0138+0198 eC316+0138+0198 eC316+0138+0198 eC316+0138+0198 eC316+0138+0198 eC318+0138+0198 eC322+014+0201 eC322+0144+0201 eC322+0144+0202 eC322+0144+0208 eC322+0144+0208 eC322+0144+0208 eC322+0144+0208 eC322+0144+0208 eC322+0144+0208 eC322+0144+0208 eC322+0144+0208 eC322+0144+0208 eC322+0144+0208 eC322+0144+0208 eC322+0144+0208 eC322+0144+0208 eC322+0144+0208 eC322+0144+0208 eC322+0144+0208 eC322+0144+0208 eC322+0144+0208 eC322+0144+0208 eC322+0144+0208 eC322+0144+0208 eC322+0144+0208 eC322+0144+0208 eC322+0144+0208 eC322+0144+0208 eC322+0144+0208 eC322+0144+0208 eC322+0144+0208 eC322+0144+0208 eC322+0144+0208 eC322+0144+0208 eC322+0144+0208 eC322+0144+0208 eC322+0144+0208 eC322+0144+0208 eC322+0144+0208 eC322+0144+0208 eC322+0144+0208 eC322+0144+0208 eC322+0144+0208 eC322+0144+0208 eC322+0144+0208 eC322+0144+0208 eC322+0144+0208 eC322+0144+0208 eC322+0144+0208 eC322+0144+0208 eC322+0144+0208 eC322+0144+0208 eC322+0144+0208 eC322+0144+0208 eC322+0144+0208 eC322+0144+0208 eC322+0144+0208 eC322+0144+0208 eC322+0144+0208 eC322+0144+0208 eC322+0144+0208 eC322+014+0208 eC32+014+0208 eC32+014+0208 eC32+014+0208 eC32+014+0208 eC32+014+0208 eC32+014+0208 eC33+015+0219 eC334+015+0218 eC33+0015+0218 eC33</pre>	ud311       m131         ud312       m132         ud312       m141         ud312       m141         ud322       m142         ud324       m141         ud324       m142         ud324       m141         ud324       m142
101           103           103           104           103           104           103           104           103           104           107           108           107           108           109           101           102           111           111           111           111           111           111           111           111           111           111           111           111           111           111           111           111           111           111           111           111           111           111           111           111           111           111           111           111           111           111           111           111           111           111	124 131+8191 132-8192 132-8193 132-8195 132-8195 132-8195 132-8195 132-8195 132-8195 132-8195 132-8195 132-8195 141-8201 142-8202 142-8202 142-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 144-8205 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      08322+C142+C212         08324+C142+C214         08324+C142+C218         08324+C142+C218	<pre>«C311-0131-019) «C312-0132-0192 «C313-0132-0193 «C314-0134-0194 «C316-0138-0198 «C316-0138-0198 «C318-0138-0198 «C318-0138-0198 «C329-0141-0300 «C329-0141-0300 «C322+0144-0300 «C322+0144-0300 «C322+0144-0303 «C322+0144-0304 «C322+0144-0308 «C322+0144-0308 «C328-0144-0308 «C328-0144-0308 «C328-0148-0308 «C328-0148-0308 «C328-0148-0308 «C328-0148-0308 «C338-0148-0318 «C338-0148-0318 «C338-0188-0318 «C338-0188-0318 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «C338-0188-0218 «</pre>	4311 + H131 + H191 43312 + H132 + H192 43313 + H132 + H192 43313 + H133 - H195 43314 + H195 43316 + H136 + H195 43316 + H138 + H195 43319 + H139 + H197 43320 + H139 + H197 43320 + H139 + H197 43320 + H139 + H197 43320 + H139 + H197 43320 + H130 + H201 43320 + H130 + H201 43320 + H130 + H205 43320 + H130 + H205 43320 + H130 + H210 43320 + H130 + H210 4330 + H100 + H210 4300 + H100 + H200 4300 + H1000   + H200 4300 + H100000 + H200 4300 + H1000000 + H200 4300 + H10000000 + H20000000000000000000000000000
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101 101 101 101 101 101 101 101	124           1231+8191           1232-8192           1232-8192           1232-8193           1232-8193           1232-8193           1232-8194           1232-8195           1232-8195           1232-8195           1232-8195           1232-8195           1232-8195           1232-8195           1232-8195           1232-8195           1232-8195           1232-8195           1232-8120           1242-8202           1242-8203           1242-8204           1242-8205           1240-8206           1240-8206           1240-8206           1240-8206           1240-8207           1240-8208           1240-8209           1261-8201           1262-8212           1262-8212           1262-8214           1262-8215           1262-8216           1262-8219           1260-8220           1261-8221           1262-8222	08311+C131+C181         08312+C132+C182         08312+C132+C182         08312+C132+C182         08314+C132+C184         08314+C132+C184         08314+C132+C184         08314+C132+C184         08314+C132+C184         08314+C132+C184         08314+C132+C184         08314+C132+C184         08321+C142+C200         08321+C142+C201         08322+C142+C203         08322+C142+C204         08322+C142+C205         08324+C142+C205         08324+C142+C205         08324+C142+C205         08324+C142+C205         08324+C142+C215         08324+C142+C216         08324+C142+C216         08324+C142+C217         08324+C142+C218         08324+C142+C212         08324+C142+C212	<pre>eC311-0131-0191 eC312-0192 eC312-0132-0192 eC313-0132-0193 eC314-0134-0194 eC316-0138-0195 eC316-0138-0195 eC316-0138-0195 eC320-0140-0290 eC3220-0140-0290 eC3220-0140-0290 eC3220-0140-0290 eC3220-0140-0293 eC3220-0140-0293 eC3220-0140-0294 eC3220-0140-0294 eC3220-0140-0294 eC3220-0140-0294 eC3220-0140-0294 eC3220-0140-0294 eC3220-0140-0294 eC3220-0140-0294 eC3220-0140-0294 eC3220-0140-0294 eC3220-0140-0294 eC3220-0140-0294 eC3220-0140-0294 eC3220-0140-0294 eC3220-0140-0294 eC3220-0140-0294 eC3220-0140-0294 eC3220-0140-0294 eC3220-0140-0294 eC3220-0140-0294 eC3220-0140-0294 eC3220-0140-0294 eC3220-0140-0294 eC3220-0140-0294 eC3220-0140-0294 eC3220-0140-0294 eC3220-0140-0294 eC320-0150-0219 eC320-0150-0219 eC320-0150-0219 eC320-0150-0219 eC320-0150-0219 eC320-0150-0219 eC320-0150-0219 eC320-0150-0219 eC320-0150-0219 eC320-0150-0219 eC320-0150-0219 eC320-0150-0219 eC320-0150-0219 eC320-0150-0219 eC320-0150-0212 eC320-0150-0212 eC320-0150-0212 eC320-0150-0212 eC320-0150-0212 eC320-0150-0212 eC320-0150-0212 eC320-0150-0212 eC320-0150-0212 eC320-0150-0212 eC320-0150-0212 eC320-0150-0212 eC320-0150-0212 eC320-0150-0212 eC320-0150-0212 eC320-0150-0212 eC320-0150-0212 eC320-0150-0212 eC320-0150-0212 eC320-0150-0212 eC320-0150-0212 eC320-0150-0212 eC320-0150-0212 eC320-0150-0212 eC320-0150-0212 eC340-0150-0212 C340-0150-0212 eC340-0150-0212 eC340-0150-021</pre>	4311 + H131 + H191 43312 + H132 + H192 43313 + H132 + H192 43313 + H133 - H195 43314 + H195 43316 + H136 + H195 43316 + H138 + H195 43319 + H139 + H197 43320 + H139 + H197 43320 + H139 + H197 43320 + H139 + H197 43320 + H139 + H197 43320 + H130 + H201 43320 + H130 + H201 43320 + H130 + H205 43320 + H130 + H205 43320 + H130 + H210 43320 + H130 + H210 4330 + H100 + H210 4300 + H100 + H200 4300 + H1000   + H200 4300 + H100000 + H200 4300 + H1000000 + H200 4300 + H10000000 + H20000000000000000000000000000
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# Table E-6. EofS ECO Spreadsheet - Formula View<br/>(page 4 of 7 pages)

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# Table E-6. EofS ECO Spreadsheet - Formula View<br/>(page 5 of 7 pages)

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A         G         D         G         D         H           118         FUEDD         =100-016         =8438*C438/100         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -<	
11     100-Q17     4437'C437/100       12     100-Q18     46437'C437/100       13     100-Q18     46437'C437/100       14     100-Q18     46437'C437/100       15     100-Q18     46437'C447/100       14     100-Q18     46437'C447/100       15     100-Q18     46437'C447/100       15     100-Q18     46437'C447/100       14     100-Q18     46437'C447/100       15     100-Q18     4643'C4447'100       14     100-Q18     4643'C4447'100       15     100-Q18     4643'C4447'100       15     100-Q18     4643'C44447'100       16     100-Q18     4643'C44447'100	
11     20001     =100-018     =6456*C438/100       13     100-018     =6445*C439*100       14     100-018     =6445*C439*100       15     100-018     =6440*C439*C409*00       15     100-018     =6440*C449*C409*C40       15     100-018     =6440*C4449*C409*C40       15     100-018     =6440*C4449*C409*C40       16     100-028     =6440*C4449*C409*C40       16     100-028     =6440*C4449*C400	
11         100-019         4439*0439*100           14         100-020         64439*040*100           14         100-020         64430*0440*100           14         100-020         6443*0440*100           14         100-020         6443*0440*100           14         100-020         6443*0440*100           14         100-020         6442*0440*100           14         100-020         6442*0440*100           14         100-020         6442*0440*100           14         100-020         6444*04440*100           14         100-020         6446*04440*100           14         100-020         6446*04440*100           14         100-020         6446*04440*100           14         100-020         6446*04440*100           14         100-020         6446*04440*100	
10         0100-020         000-020         000-020           11         000-020         000-020         000-020           12         000-020         000-020         000-020           12         000-020         000-020         000-020           12         000-020         000-020         000-020           13         000-020         000-020         000-020           14         000-020         000-020         000-020           14         000-020         000-020         000-020           14         000-020         000-020         000-020           15         000-020         000-020         000-020	
41         Instant         0         0108-021         08441'0441/100           121         Instant         0         0108-022         08442'0421/100           121         Instant         0         0108-023         08443'0421/100           121         Instant         0         0108-023         08443'04421/100           121         Instant         0         0108-024         08443'04447/100           121         Instant         0         0108-025         08445'04442'100           121         Instant         0         0108-025         08445'04442'100           123         Instant         0         0408-025         08445'04442'100	
12 mmcs         0         =100-032         =6442*0448/100           14 P_TSR         0         =100-024         =6445*0448/100           14 P_TSR         0         =100-024         =6445*0448/100	
13         PT_STD: 0         =100-023         =8443*C443*100           14         PTUR: 0         =100-025         =8443*C443*100	
131         100-023         =8443*G443/100           141         7500         =8444*G444/100           141         100-025         =8446*C444/100           141         100-025         =8446*C444/100	
Late         State         Observation           Late         State         State <td< th=""><th></th></td<>	
4 5 RTar 0 = 0104-025 = 0646/100 4 8 warm 0 = 100-028 = 0646/100	
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131         Human         -6261*55441/100         -0261*55441/100         -07261*55441/100           1021         Human         -6282*55442/100         -0282*55442/100         -0282*55442/100           1031         Figure         -6283*55442/100         -0285*55442/100         -0285*55442/100           1031         Figure         -6283*55442/100         -0285*55442/100         -0285*55442/100           1031         Figure         -6283*55442/100         -0285*55442/100         -0285*55442/100           049         Figure         -6284*55444/100         -0284*55444/100         -0284*55444/100	
101         -6261*55441/100         -0261*55441/100         -0261*55441/100           101         -6282*55645/100         -0262*55645/100         -0282*55645/100           101         -6282*55645/100         -0282*55645/100         -0282*55645/100           101         -6282*556445/100         -0282*556445/100         -0282*556445/100           101         -6282*556445/100         -0282*556445/100         -0282*556445/100           101         -6282*558445/100         -0284*558445/100         -0282*558445/100           101         -6282*558445/100         -0284*558445/100         -0282*558445/100	1
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191         Human         -6261*58447/100         -C261*58447/100         -H261*58447/100           1021         Human         -6282*58447/100         -C261*58447/100         -H262*58447/100           1021         Human         -6282*58447/100         -C262*58447/100         -H262*58447/100           1021         Human         -6282*58447/100         -C262*58447/100         -H262*58447/100           1024         F_RCA         -6883*584447/100         -C262*58447/100         -H262*58447/100           1024         F_RCA         -6884*584447100         -C264*584447100         -H263*58447/100           1024         F_RCA         -6884*584447100         -C264*584447100         -H263*58447/100           1025         Human         -6284*584447100         -C284*58447100         -H263*58447/100           1025         Human         -6284*58447100         -C284*58447100         -H263*58447/100           1035         Human         -6284*58447100         -C284*58447100         -H263*58447/100           1035         Human         -6284*58447100         -C284*58447/100         -H263*58447/100           1036         Human         -6287*58447/100         -C287*5847/100         -H287*58447/100	
131         -0281158441/100         -0281158441/100         -0281158441/100         -0281158441/100           131         -0281158441/100         -0282118442/100         -0282118442/100         -0282118442/100           103         -0282118442/100         -0282118442/100         -0282118442/100         -0282118442/100           103         Pr_2021         -6282118442/100         -0282118442/100         -0282118442/100           104         Pr2121         -6280118442/100         -0282118442/100         -0282118442/100           104         Pr2121         -6280118442/100         -0281118442/100         -028118442/100           105         Pr2121         -6280118442/100         -0281118442/100         -0281118442/100           105         Pr2121         -6280118442/100         -0281118442/100         -0281118442/100           105         Pr2121         -6280118442/100         -0281118442/100         -0281118442/100           106         Pr2121 <t< th=""><th></th></t<>	
131         19541135441/100         +C281138441/100         +C281138441/100         +C281138441/100           102         19502         +6281138442/100         +C281138442/100         +C281138442/100           102         19502         +6281138442/100         +C281138442/100         +C281138442/100           103         17,7700         +C281138442/100         +C281138442/100         +C281138442/100           103         17,770         +C281138442/100         +C281138442/100         +C281138442/100           103         17,770         +C281138442/100         +C281138442/100         +C281138442/100           103         100,771         +C28111	
11         Hummar         -8281*55441/100         -C281*58441/100         -C281*58441/100         -H281*58441/100           12.1902x         -6282*58442/100         -C282*58442/100         -C282*58442/100         -H282*58442/100           12.1902x         -6283*58442/100         -C282*58442/100         -C282*58442/100         -H282*58442/100           10.19702x         -6833*58444/100         -C283*58442/100         -C283*58442/100         -H283*58442/100           10.49702x         -6833*58444/100         -C283*58444/100         -C283*58444/100         -H283*58444/100           10.49702x         -6836*58444/100         -C283*58444/100         -C283*58444/100         -H283*58444/100           10.49702x         -6836*58444/100         -C283*58444/100         -C283*58444/100         -H283*5844/100           10.49702x         -6836*58444/100         -C283*58444/100         -C283*58444/100         -H283*5844/100           10.49702x         -6836*58444/100         -C283*58444/100         -C283*58444/100         -H283*5844/100           10.49702x         -6836*58444/100         -C283*58444/100         -H283*58444/100         -H283*58444/100           10.49702x         -6836*58444/100         -C283*58444/100         -H283*58444/100         -H283*58444/100           10.49702x         -6836*58444/100	
131         1021         1021         1021         1021         1021         1021         1021         1021         1021         1021         1021         1021         1021         1021         1021         1021         1021         1021         1021         1021         1021         1021         1021         1021         1021         1021         1021         1021         1021         1021         1021         1021         1021         1021         1021         1021         1021         1021         1021         1021         1021         1021         1021         1021         1021         1021         1021         1021         1021         1021         1021         1021         1021         1021         1021         1021         1021         1021         1021         1021         1021         1021         1021         1021         1021         1021         1021         1021         1021         1021         1021         1021         1021         1021         1021         1021         1021         1021         1021         1021         1021         1021         1021         1021         1021         1021         1021         1021         1021         1021         1021	
11         Hummar         =8281*158441/100         =C281*158441/100         =C281*158441/100         =r1281*15841/100           121         Hummar         =8282*158442/100         =C282*158442/100         =C282*158442/100         =H282*158442/100           121         Hummar         =8282*158442/100         =C282*158442/100         =C282*158442/100         =H282*158442/100           131         F_ZDR         =8283*158443/100         =C284*158444/100         =C284*158444/100         =H282*158444/100           131         F_ZDR         =828*5584444/100         =C284*158444/100         =C284*158444/100         =H284*158444/100           131         F_ZDR         =828*5584444/100         =C284*158444/100         =C284*158444/100         =H284*158444/100           131         HIMBER         =828*558444/100         =C284*558444/100         =C284*558444/100         =H284*558444/100           131         HIMBER         =828*558444/100         =C28*558444/100         =C28*558444/100         =H28*558444/100           132         HIMBER         =828*558444/100         =C28*558444/100         =C28*558444/100         =H28*558444/100           132         HIMBER         =828*558444/100         =C28*558444/100         =C28*558444/100         =H28*558444/100         =H28*558444/100          132	
11         Hummar         +8281*5844/100         +7281*5844/100         +7281*5844/100           121         P_PD2         +8284*5844/100         +7281*5844/100         +7281*5844/100           124         P_PD2         +8284*5844/100         +7281*5844/100         +7281*5844/100           124         +7281*5844/100         +7281*5844/100         +7281*5844/100         +7281*5844/100           124         +7281*5844/100         +7281*5844/100         +7281*5844/100         +7281*5844/100           125         +7281*5844/100         +7281*5844/100         +7281*5844/100         +7281*5844/100           125         +8281*5844/100         +7281*5844/100         +7281*5844/100         +7281*5844/100           126         +8281*5844/100         +7281*5844/100         +7281*5844/100         +7281*5844/100           127         +8281*5844/100         +7281*5844/100         +7281*5844/100         +7281*5844/100           128         +8281*5844/100         +7281	
131         -8281*155641/100         -C281*15641/100         -C281*15641/100         -r281*15641/100           131         -6282*15642/100         -C282*15642/100         -C282*15642/100         -r281*15642/100           131         Fr_20x         -6282*15642/100         -C282*15642/100         -r282*15642/100           131         Fr_20x         -6282*15642/100         -C282*15642/100         -r282*15642/100           131         Fr_20x         -6282*15642/100         -C282*15642/100         -r282*15642/100           131         Fr_20x         -6282*15644/100         -C282*15644/100         -r282*15644/100           131         -6282*15644/100         -C282*15644/100         -C282*15644/100         -r282*15844/100           131         -6282*15644/100         -C282*15644/100         -C282*15844/100         -r282*15844/100           131         -6282*15844/100         -C282*15844/100         -C282*15844/100         -r282*158444/100	
1         Hummar         =8281*158441/100         +0281*158441/100         +r/281*158441/100           0.21 Hummar         =8282*158442/100         +0281*158442/100         +r/281*158442/100           0.21 Hummar         =8282*158442/100         +0282*158442/100         +r/281*158442/100           0.21 Hummar         =8283*158442/100         +0282*158442/100         +r/281*158442/100           0.21 Hummar         =8283*158443/100         +0283*158444/100         +r/281*158444/100           0.21 Hummar         =8283*158444/100         +0284*158444/100         +r/281*158444/100           0.21 Hummar         =8283*158444/100         +0284*158444/100         +r/281*18444/100           0.21 Hummar         =8283*158444/100         +0283*158444/100         +r/281*18444/100           0.21 Hummar         =8283*158444/100	
131         -0261*35441/100         -0261*35441/100         -0261*35441/100         -0261*35441/100           131         -0262*35442/100         -0262*35442/100         -0262*35442/100         -0262*35442/100           131         -0262*35442/100         -0262*35442/100         -0262*35442/100         -0262*35442/100           131         -0262*35442/100         -0262*35442/100         -0262*35442/100         -0262*35442/100           131         -0262*35444/100         -026*35444/100         -026*35444/100         -026*35444/100           131         -026*35444/100         -026*35444/100         -026*35444/100         -026*35444/100           131         -0276*35444/100         -026*35444/100         -026*35444/100         -026*35444/100           132         -028*35444/100         -028*35444/100         -028*35444/100         -028*35444/100           131         -028*35444/100         -028*35444/100         -028*35444/100         -028*35444/100           133         -028*35444/100         -028*35444/100         -028*35444/100         -028*35444/100           133         -028*35444/100         -028*35444/100         -028*35444/100         -028*35444/100           134         -028*35444/100         -028*35444/100         -028*35444/100         -028*35444/100	
131         -8281*185441/100         -0281*18641/100         -0281*18641/100         -0281*18641/100           121         HDKR         -6282*18642/100         -0282*18642/100         -0282*18642/100         -0282*18642/100           121         HDKR         -6282*18642/100         -0282*18642/100         -0282*18642/100         -0282*18642/100         -0282*18642/100         -0282*18642/100         -0282*18642/100         -0282*18642/100         -0282*18642/100         -0282*18642/100         -0282*18642/100         -0282*18642/100         -0282*18642/100         -0282*18642/100         -0282*18642/100         -0282*18642/100         -0282*18642/100         -0282*18642/100         -0282*18642/100         -0282*18642/100         -0282*18642/100         -0282*18642/100         -0282*18642/100         -0282*18642/100         -0282*18642/100         -0282*18642/100         -0282*18642/100         -0282*18642/100         -0282*18642/100         -0282*18642/100         -0282*18642/100         -0282*18642/100         -0282*18642/100         -0282*18642/100         -0282*18642/100         -0282*18642/100         -0282*18642/100         -0282*18642/100         -0282*18642/100         -0282*18662/100         -0282*18662/100         -0282*18662/100         -0282*18662/100         -0282*18662/100         -0282*18662/100         -0282*18662/100         -0282*18662/100         -0282*18662/100         -0282*18662/100	
iii)         -8281'158441/100         -0281'158441/100         -0281'158441/100         -0281'158441/100           021mpCar         -6282'158442/100         -0282'158442/100         -0282'158442/100         -0282'158442/100           021mpCar         -6283'158442/100         -0282'158442/100         -0282'158442/100         -0282'158442/100           031mpCar         -6283'158442/100         -0283'158442/100         -0283'158442/100         -0283'158442/100           034 proce         -6283'158444/100         -0284'158444/100         -0284'158444/100         -0284'158444/100           034 proce         -6283'158444/100         -0283'158444/100         -0283'158444/100         -0283'158444/100           034 proce         -6283'158444/100         -0283'158444/100         -0283'158444/100         -0283'158444/100           049 proce         -6283'158444/100         -0283'158444/100         -0283'158444/100         -0283'158444/100           049 proce         -6	
131         -8281*158441/100         -C281*158441/100         -C281*158441/100         -r281*158441/100           131         -6282*158442/100         -C282*158442/100         -C282*158442/100         -r281*158441/100           131         Fr_20x         -6282*158442/100         -C282*158442/100         -r282*158442/100           131         Fr_20x         -6282*158442/100         -C282*158442/100         -r282*158442/100           131         Fr_20x         -6283*158444/100         -C282*158444/100         -r284*158444/100           131         -6283*158444/100         -C283*158444/100         -C283*158444/100         -r283*158444/100           131         -6283*158444/100         -C283*158444/100         -C283*158444/100         -r483*158444/100           131         -6283*158444/100         -C283*158444/100         -C283*158444/100         -r483*158444/100           131         -6283*158444/100         -C283*158444/100         -C283*158444/100	
131         -8281*185441/100         -0281*18641/100         -0281*18641/100         -0281*18641/100           121         HDCR         -6282*18442/100         -0282*18642/100         -0282*18642/100         -0282*18642/100           121         HDCR         -6282*18642/100         -0282*18642/100         -0282*18642/100         -0282*18642/100           131         FLZD         -6282*18644/100         -0284*18644/100         -0284*18644/100         -0284*18644/100           131         HZLT         -6282*18644/100         -0284*18644/100         -0284*18644/100         -0284*18644/100           131         HZLT         -6282*18644/100         -0284*18644/100         -0284*18644/100         -0284*18644/100           131         HZLT         -6282*18644/100         -0284*1864/100         -0284*1864/100         -0284*1864/100           131         HZLT         -6282*18644/100         -0282*18644/100         -0282*18644/100         -0282*18644/100           131         HZLT         -6282*18644/100         -6282*18644/100         -0282*18644/100         -0282*18644/100           131         HZLT         -6282*18644/100         -6282*18644/100         -0272*18642/100         -0272*18642/100           132         HZLT         -6282*18644/100         -6272*18642/100 <t< th=""><th></th></t<>	
131         -8281*158441/100         -C281*158441/100         -C281*158441/100         -C281*158441/100           131         -C281*158441/100         -C281*158441/100         -C282*158442/100         -H281*158441/100           131         -C281*158441/100         -C281*158441/100         -C281*158441/100         -H281*158441/100           131         -C281*158441/100         -C281*158441/100         -C281*158441/100         -H281*158441/100           131         HDMM         -C281*158441/100         -C281*158441/100         -H281*158441/100           131         HDMM         -6280*158441/100         -C281*158441/100         -H281*158441/100           131         HDMM         -6280*158441/100         -C281*158441/100         -H281*158441/100         -H281*158441/100           131         HDMM         -6280*158441/100         -C280*158441/100         -H281*158441/100         -H281*158441/100           131         HDMM         -6280*158441/100         -C280*158441/100         -H281*158441/100         -H281*158441/100           132         HDMM         -6280*158441/100         -C280*158441/100         -H281*158441/100         -H281*158441/100           133         HDMM         -6280*158441/100         -C280*158441/100         -H281*158451/100         -H281*158451/100         -H281*158451/100 <th></th>	
131         -8281*185441/100         -0281*18641/100         -0281*18641/100         -0281*18641/100           121         HDCR         -6282*18442/100         -0282*18642/100         -0282*18642/100         -0282*18642/100           121         HDCR         -6282*18642/100         -0282*18642/100         -0282*18642/100         -0282*18642/100           131         FLZD         -6282*18644/100         -0284*18644/100         -0284*18644/100         -0284*18644/100           131         HZLT         -6282*18644/100         -0284*18644/100         -0284*18644/100         -0284*18644/100           131         HZLT         -6282*18644/100         -0284*18644/100         -0284*18644/100         -0284*18644/100           131         HZLT         -6282*18644/100         -0284*1864/100         -0284*1864/100         -0284*1864/100           131         HZLT         -6282*18644/100         -0282*18644/100         -0282*18644/100         -0282*18644/100           131         HZLT         -6282*18644/100         -6282*18644/100         -0282*18644/100         -0282*18644/100           131         HZLT         -6282*18644/100         -6282*18644/100         -0272*18642/100         -0272*18642/100           132         HZLT         -6282*18644/100         -6272*18642/100 <t< th=""><td></td></t<>	

# Table E-6. EofS ECO Spreadsheet - Formula View(page 6 of 7 pages)

Table E-6.	EofS ECO	)	Spre	adsheet	•	Formula	View
	(page	e 7	7 of	7 pages)			

			0	M
ا <del>ستان استار مع</del> اد	14263'18443/100	-C283'18443/100	+0883'18443/100	am263*18463/100
		*C283*38443/100		
	-8284'38484/100		=D224'58464/100	-H2841\$#464/10Q
	+8285'18446/100	-G285'38466/105	-0288'58465/199	*H265'58465/100
	-8289'1846W190	+C28. 18466/100	-0216-128466/100	-H246'S8444/100
	+8287*18467/100	-G267"38467/100	+0207*39467/100	-/1267*58467/100
LE 2. BURGERY	-6266*18466/100	-C258*15444/100	a0288*58466/190	*H286*18464/100
111HO,MO	-8288"38469/100	-C269'58489/100	+Q209*18469/100	***287*\$8469/100
11012.00	-6290*16470/100	+C296*38470/100	-0210*18476/100	+H2R0*S8470/100
Eatim Me	-8351*38471/100	-0291*58471/166	+O2\$1"\$8471/100	aH201*58471/100
A 1 1 CHEST	48882"18471/100	-C238'88472/100	-0202-18472/100	-H292'\$8472/100
12.3 100037	-8295"14473/100	-C293*58473/100	+0213'38473/100	*H293*\$8473/100
8 3 4 mm	-4254*38474/199	-C284"\$8474/100	-O294"18474/100	*******************
	-6296'38475/100	-0298*58478/100	.0296*38478/100	*H291-18471/100
	-8296'18476/100	+C296*5847W100	+0294*38476/100	-4294-18476/100
	-4297"38477/100	-C297*58477/100	D227'18477/104	*H207-18477/100
	-4296'38478/100	*G298*18478/100	-O294'18478/100	******************
	-8299'38479/100	+C290'18478/100	+0299'1847W100	*#299*38479/100
	-6300'38480/100	+G306*18480/100	+0320*18440/100	+M300'18480/100
841 842				
	Quantity			
				1
	tysä Penetration			
Les e	W BCO			
	+&UM(0431:0489)		•	
14.8				
	Cumulative quantity penadution by I			
Laso -	+&UM(8491:8840)	-6UM(C491:C340)	-SUM(0481-0540)	+&UM(H491-H940)
1222				
111	Cumulante quantity penetration by I			
114	145.4	//**	tyee	
111	*58847+8660	+48847+C880	-58547-0850	a\$8\$47cH\$50
1.6.6				
1 1 7 and				1

X <u>1494</u> 1<u>495</u> 1<u>495</u> 1<u>496</u> 1<u>497</u> 1<u>498</u> 1<u>498</u> 1<u>498</u> 1<u>498</u> 1<u>490</u> 1<u>490</u> 1<u>492</u> 1<u>492</u> 1<u>493</u> 1<u>493</u> 1<u>494</u> 1<u>495</u> 12496.758 12496.758 12496.758 12496.758 12496.758 12496.758 12496.758 12496.758 12496.758 12496.758 12496.758 1 0 12397 39 26949 864 44450 587 62980.154 84933 336 110281.4 136671.05 143811.66 143811.66 143811.66 143811.66 143811.66 8 129.99126 279.97644 478.52401 668.09737 912.38427 1181.9098 1457.1975 1534.4291 1534.4291 1534.4291 1534.4291 1534.4291 1534.4291 Grand lotal energy savings (1000s of MBlus) 46009.807 378290 4 Total annual anviconmental savings 26301 897 58207 568 103566 87 148561 19 209917 87 275695 03 356073 01 378290 4 378290 4 378290 4 378290 4 ratel ennual cost sevings 7422 4726 14279 338 20601.859 26686.057 33250.634 39071.888 44791.987 46009.807 46009.807 46009.807 46009.807 0 Sec Q 8 닐 0 8 12'97'758 14971 668 17257 061 19364.357 21392 221 23580.194 25520.418 6886.7453 8 g × c Annual investment funding limitations (Budget) in 1000s of dollars ١. Envirs ٥ Grand total costs savings (1000s of dollars) ш Grand total demand savings (kilowatts) 1496 Fraction [0,1] for cost savings tolled over 8 0 Multiple Objective Function (variable: with zero coeff removed) ۵ Total annual investment costs **Folal annual demand savings** Tolai annual energy savings ۵ C J Weights for Objectives 0.3333 8 416153 27 416,153 12.780 1,197.722 æ DATA LOCIC Budget 195122 219 3302 01444 01 -20 -4 4 5 - 10

 Table E-7. EofS Main (Linking) Spreadsheet - Value View (page 1 of 3 pages)

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æ	iy05	27831.827	1405	27831.627 27831.627			0 F01	1405	4600		1534.4291]F01	fy05	1438
L L	fy04	27831.827				1y04	0	2	4600		1534.4291	fy04	110281.4 136671.06 143811.66 143811.66 143811.66 143811.56
¥	1 <u>y</u> 03	27931.827	1yua	27631.627		1y03	0	1703	4600		1534.4291	fy03	143811.66
7	1y02	27831.827	1y02	27831.827		1y02	0	1402	4600		1534.4291	fy02	143811.66
-	10/1	21391.221 23579.194 25519.418 27425.927	101	-0.96993 29533.182		fyot	6886.7453	107	46005	101	912.38427 1181.9098 1457.1975 1534.4291 1534.4291 1534.4291	fy01	143811.66
Ŧ	typo	25519.418	tyoo			t <u>y00</u>	23580.194 25520.418	004	44791.987	iy oo	1457.1975	fy00	136671.06
5	66 <i>k</i> i	23579.194	(y99	-0.999923				66A	39071.868	1y99	1181.9098	1	110281.4
٤	year ty98	21391.221	1y98	-0.999969		f <u>y98</u>	21392.221	1 2 8 8			912.38427	1498	84933.336
E	stons) from previous fry97	19363.357	1497	-0.999887		197	19364.357	(197	26686.057	) (y97	668.09737	797	62980.154
0	ental savings (stons) wings rolled over from pr 95	17256.061	fy96	-0.999715	spreadsheets)	<b>nt coste by E(</b> copy across) 95 fyg6	17257.061	inge by ECO can copy across) 95 ív96	2060	wings by ECO can copy across) 35 1y96	44 478.52401 Hav <sup>ings</sup> bv ECO	can copy across) 95 fy96	44450.587
c	environment t + cost saving fy95	14970.668	d cost limit nt shown fy95	-1.000103		investment iown, can cop iy95	14971.668 17257.061	cost servings Jownward, car fy95	14279.338	energy savle Jownward, car (y95	279.97644 demend sav	lownward, fy	26949.864
8	Grand total environmental sevings (stona) 3.069.775 Annuel budget + cost sevings rolled over from previous year 1y94 1y95 1y96 1y97	see budgot	Enforcement of cost limi unused amount shown fy94 fy94	-0.999995	LINKS (Refs to other	Total annual investment costs by (do not copy down, can copy across) fy94 fy95 fy	12497.758	Total ennual cost serings by ECO (do not copy downward, can copy acr (194		Total annual anargy savings by ECO (do noi copy downward, can copy across [y96	129.5 <sup>°-</sup> 126_279.97644_478.52401   <b>129.6<sup>°-</sup>126_279.97644</b> _478.52401   <b>128.6<sup>°-</sup> annivel demend sav</b> énds by ECO	(do not co;y downward, fy54 fy	12397.739
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# Table E-7. EofS Main (Linking) Spreadsheet - Value View (page 3 of 3 pages)

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	ty04	378290.4			fy04	9.75 6			fun.	500000				1404	100%	
						69826				50						
×	ty03	378290.4			1403	8269.75			Envi	50000				1003	100%	
						69										
7	iy02	378290.4			fy02	698269.75 698269.75 698269.75 698269.75 698269.75 698269.75 F01			1403	50000				1402	100%	
	fy01	378290.4			101	1269 75			101	500000				101	100%	
		3			ļ	69				[			۰.		í	1
I	1400	6073.01			1400	8269.75			1400	50000				1400	100%	
		36			-	69							(iii	-		
U	1 <u>799</u>	275695.03			66 <i>k</i> j	598269 75		itration	1000	50000			above 93 p	1499	100%	
	86 <i>K</i> j	26301.097 58207.588 103566.87 148561.19 209917.87 275695.03 356073.01			1y98	690302.2 698269.75 698269 75		penetration by ECO above the fy93 penetration	fugg	500000			93 pen) divided by last year cum quant pen (above 93 pen) can correct	1y98	100%	
Н	5	6			5	2 N		5 2	5					ty97	38%	
w	y ECO İy <u>97</u>	148561.1		20	1497	690302			1407	81 347270.21 492032.45			y last yea		86	
Η	inge by across) ty96	5.87		a ya	Iv96	9.96		2	ACTOSS)	0.21				1y96	69%	
0	mentat savtings by ECO can copy across) 95 ty96	10356		peretration by ECO	can copy across) 95 1y96	545539.96		<b>tration</b>	, can copy across) as	34727		5	No (ua	95 ty96		
Η	an the second	88		ž	SS 55	56		Ĩ	ard, can (vos			Hration	ğ	fy95	42%	
U	nviron unward, fy	8207.5		_	, brawnw Lyf	408815.		Linu	, Diamand Lu					, <u>,</u>	4	
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	Total anaual environa (do noi copy downward, 1y9.4 1y	26301.85	postpracessor	Cumulative quantity	(do not copy downward. 1794 17	295127.09		Cumulative quantity	(do not copy downward, ivea	96857.337 210545		Percent of Final Pen	Cum quent pen (atiove Managed and and and and and and and and and an	year into the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second se	×61	
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Ш	2628			101	102	104		2				-		116	Ξ	

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Table E-8. EofS Main (Linking) Spreadsheet - Formula View (page 1 of 3 pages)

		w		=SUM[E64:E64]	=SUM(E72:E72)	=SUM(E80:E80)	=SUM(E88:E88)	=SUM(E96.E96)
	20Å	0 Emais		INS=	INS=	INS.	ins=	INS=
a				=SUM(D64:D64)	=SUM(D72:D72)	=SUM{D80:D80}	=SUM(D88:D8c)	<u>=SUM(D96.D96)</u>
	96 Aj	o 93 c		"SU	"Su	ns=	ns=	ns=
0	g			=SUM(C64.C64)	=SUM(C72:C72)	=SUM(C80:C8u,	=SUM(C88:C88)	
	1 1 2 0 5	e 19 e		Ŭ,	Ω	Ω II	N "	, N
	DATA DATA Fraction (0,1) for cost savings rolled over 0 Amuel investment funding Inclasions (Budget) in 1000s of dollars 1794	Mughts for Objectives	LOCAC Muthiple Objective Function (ver thes with zero coeff removed) =818-832		Form dimense cost advinge =SUM(B72.B72) Grand total costs seringe (1000s c) dollars) =SUM(B30.M30)	Total annual anergy sevings =SUM(E80.880) Grand total energy sevings (1000s of MBtus) =SUM(B35.M35)	Total Innual demand savings =SUM(B08.888) Grand total demand savings (kikowalis) =SUM(B40.M40)	Total annual environmental savings =SUM(B96 B96)
<		langjan (						
			22 2 2 2 0 0			1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		<b>* S</b>

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Table E-8. EofS Main (Linking) Spreadsheet - Formula View (page 2 of 3 pages)

Total amusi environmental sevinge by ECO	5	٩	ш
(do not copy downward, can copy across) ly94	1y95	fy96	1y97
=`C-540::91G01'!8\$417	='C-540:r91G01'!C\$417	='C-540:r91G01'ID\$417	='C-540:r91G01'lE\$417
postprocessor			
Cumulative quantity penetration by ECO (do not copy downward, can copy across)			ŗ
1734 ='C-540.r91G01'18\$555	='C-540:r91G01'!C\$555	='C-540:r91G01'ID\$555	='C-54C:r91G01'1E\$555
Cumulative quantity penetration by ECO above the fy93 penetration			
(au nan cupy aumimanu, uan cupy au was) 1494	1495	fy96	1 (v97
='C-540;r91G01'IB\$550	='C-540:r91G01'IC\$550	='C-540:r91G01'lD\$550	='C-540:r91G01'IE\$55U
Percent of Final Penetration Cum quant pen (above 95 pen) divided by last year cum quant pen (above 93 pr (do not copy downward, can copy across)			
	fy95	ty96	fy97
=B110/\$M110	=C110/\$M110	=D110/\$M110	=E110/\$M110

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 Table E-8. EofS Main (Linking) Spreadsheet - Formula View (page 3 of 3 pages)

<	8	v	0	
	Grand total environmental savings (stons) =SUM([845:M45]			
	Arnual budget + cost savings rolled over from previous year	1495	1y96	797
	see budget	=C14+\$B11*B30	=D14+\$B11*C30	=E14+\$811*D30
	Enforcement of cost limit			
	unused amount shown	fugs	1v96	1v97
		=C51-C27	=051-027	=E51-E27
	LINKS (Refs to other spreadehests)			
	Total annual investment costs by ECO			
	(uu ina cupy uomii, cmi cupy second) fv94	1y95	fy96	ty97
64 F01_2X4FL 66 67 67	='C-540:191G01'IB\$377	='C-540:191G01'IC\$377	='C-540:r91G01'lD <b>\$</b> 377	='C-540:r91G01'IE\$377
	Total annual cost eavings by ECO (do not copy downward, can copy across) 1194	1785	1796	1497
72 Fo1_2X4FL	='C-540:191G01'1B\$387	='C-540:r91G01'IC\$387	='C-540:r91G01'ID\$387	='C-540:r91G01'IE\$387
	<b>Totel annue: energy savinge by ECO</b> (do not copy downward, can copy across) fy94	1495	1496	797 1
80 F01_2X4FL		='C-540:r91G01'iC\$397	='C-540:r91G01'ID\$397	='C-540:r91G01'!E\$397
	<b>Total annual demand savings by ECO</b> (do noi copy downward, can copy across) (vg4	1v95	96A	797
66 F01_2X4FL		='C-540:r91G01'fC\$407	='C-540:r91G01'!D\$107	='C-540:r91G01'!E\$407

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#### **APPENDIX F**

#### FINANCIAL ALTERNATIVES

**F-1. INTRODUCTION.** Department of the Army energy conservation projects can be financed through a variety of defense and nondefense programs. This appendix identifies and describes the most popular of these energy financing mechanisms.

**F-2.** APPROACH. Data were collected using primary and secondary sources. Energy experts, policymakers, and funding representatives were interviewed from the Department of the Army Energy Office, US Army Engineering Division at Huntsville, US Army Corps of Engineers Housing Support Center, the Department of Energy, the General Services Administration (GSA) and industry. Points of contact from various Army installations were also contacted about their experiences with using some of the funding methods presented in this report. In addition to interviews, secondary sources such as energy legislation, defense regulations, policy letters, conference reports, books, and lessons learned notes were used to gather information. A complete list of these sources appear in the bibliography.

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#### **F–3. DEFENSE PROGRAMS**

a. Defense programs fall into the categories of general defense or Office of the Secretary of Defense (OSD) and Army-specific. All programs, regardless of category, were considered "viable" funding sources even though some were not funded during the current fiscal year. The programs addressed are the Energy Conservation Investment Program (ECIP), Energy Conservation and Management (ECAM) Program, Productivity Capital Investment Program (PCIP) which includes Quick Return on Investment Program (QRIP), Productivity Enhancing Capital Investment Program (PECIP), the Strategic Environmental Research and Development Program (SERDP), Product Improvement Program (PIP) and Labor-Saving Capital Investment Program (LSCIP). A brief description of each program is given below.

(1) Energy Conservation Investment Program (ECIP). The Energy Conservation Investment Program is a Department of Defense military construction (MILCON) funded program. ECIP funds energy-saving, cost-reducing projects for existing DOD facilities. Installing cost effective retrofits for existing facilities or building new energy efficiency systems are two examples of projects which would qualify for ECIP funding. Specifically, projects must cost \$300,000 or more, exhibit a savings-to-investment ratio of greater than 1.25, and amortize or have a payback of 10 years or less. Commanders submit projects to Headquarters, Department of the Army. According to Army Regulation (AR) 11–27, Army Energy Program, Army participation is planned, executed, and monitored by the Chief of Engineers and the Deputy Chief of Staff for Logistics, specifically, the Energy Office. This may change, however, with the current restructuring of the Army. The Chief, National Guard Bureau, handles requests from the Army National Guard. According to the ECIP point of contact, ECIP was funded for \$50 million per year through FY 97. From this amount, the Army receives \$12.8 million per year for its projects throughout FY 97. The program may receive a one-time additional funding of \$50 million. If the additional funding of \$50 million is approved, then the Army will receive approximately \$20-25 million per year.

(2) Energy Conservation and Management (ECAM) Program. The Energy Conservation and Management Program is an Army Materiel Command program, and more specifically an Ammunition and Chemical Command (AMCCOM) program. ECAM funds energy-saving retrofit projects at government-owned, contractor-operated (GOCO) plants. ECAM is funded with Procurement of Ammunition, Army (PAA) dollars. Military Construction, Army (MCA) dollars cannot be used to fund ECAM projects with the exception of new construction (i.e., the building of a new facility). According to an ECAM representative, to qualify for ECAM funding, projects must cost \$15,000 or more, have a savings-toinvestment ratio greater than 1, and have a payback period of 2 years or less. Projects are usually selected from studies conducted under the Energy Engineering Analysis Program, Production Base Modernization Program, or other Army procurement funded programs. The ECAM Program remained unfunded throughout FY 92. It is uncertain as to when funding will become available.

(3) Productivity Capital Investment Program (PCIP). The Productivity Capital Investment Program is an umbrella program which provides funding to defense agencies for energy efficiency projects and equipment improvements. Programs falling under PCIP are the OSD Productivity Investment Funding (OSD PIF) Program, QRIP, and PECIP. As of January 1991, Program Budget Decision #197 officially canceled the OSD Productivity Investment Funding Program which funded high payoff projects at non-GOCO facilities. As an outgrowth of this OSD decision, the Department of the Army decided to canceled its programs--Quick Return on Investment Program and Productivity Enhancing Capital Investment Program--as of the end of FY 93. Army agencies wishing to fund projects normally falling under these categories would now be required to request funding under other Army financing programs. Because QRIP and PECIP are viable through the end of FY 93, a brief description of them is given below.

(a) Quick Return on Investment Program (QRIP). The Quick Return on Investment Program funds projects that cost less than \$10,000 and amortize or have a payback in 2 years or less. According to one QRIP point of contact, approximately 99 percent of all QRIP dollars comes from three accounts: Operation and Maintenance, Army (OMA); Other Procurement, Army (OPA); and, Research, Development, and Acquisition (RDA). OMA funds are good for 1 year, RDA are good for 2 years, and OPA for 3.

(b) Productivity Enhancing Capital Investment Program (PECIP). Projects which do not qualify for funding under OSD PIF or QRIP do qualify for funds under the Productivity Enhancing Capital Investment Program. PECIP projects must cost more than \$100,000 and have a payback of 3 years or less.

(4) Strategic Environmental Research and Development Program (SERDP). Title 10, United States Code, Section 2901 (10 USC 2901) establishes the Strategic Environmental Research and Development Program. According to 10 USC 2901, SERDP brings together the Department of Defense, the Department of Energy, and the Environmental Protection Agency to conduct research and develop energy technologies and other technologies which would address environmental restoration, waste minimization, hazardous waste substitution, and other environmental concerns. SERDP encourages continuous transfer of information and technologies between the public and private sectors to enhance global environmental change. During FY 91 and FY 92, \$200 million funded the program. Based on the signing of the FY 93 Defense Appropriations Bill, Congress and the current Administration showed their support to further fund SERDP in FY 93 by appropriating \$180 million to the program. Efforts are underway to ensure SERDP transitions into a budgeted program.

**b.** Little is known about the next two programs--Labor-Saving Capital Investment Program (LSCIP) and Product Improvement Program (PIP)--however, according to AR 11-27, these programs are viable.

(1) Labor-Saving Capital Investment Program (LSCIP). According to AR 11-27, projects qualifying for the Labor-Saving Capital Investment Program cost more than \$100,000. Half of the project should be recouped through manpower savings within 4 years and the total be amortized within that time.

(2) Product Improvement Program (PIP). According to AR 11-27, the Product Improvement Program considers and manages suggestions to improve fielded products Armywide. PIP dollars are obtained from the OMA account.

#### **F-4. NONDEFENSE PROGRAMS**

a. Other Federal and private sector financing programs are available to the Department of Defense. Discussed in this paragraph are the Department of Energy's Seed Money and the General Services Administration's Set-Aside Program (Budget Account 54). Industry, too, has pursued energy savings initiatives with the Department of the Defense, especially since the mid-to-late 1980s. Numerous programs have evolved since that time to facilitate DOD's effort in reducing its energy consumption and energy-related costs. Among the most popular programs in the defense community are Energy Savings Performance Contracting and Demand Side Management. A brief description of all these programs appears below.

(1) Seed Money. According to a Department of Energy representative, DOE provides Federal agencies funding for project planning and initial energy conservation audits on a cost shared basis. Usually, the customer agency receives \$10K, \$15K, or \$20K from DOE and is required to match that amount. Although this is not an "official" program, it is available to agencies interested in implementing energy cost saving measures in their facilities as long as funding is available.

(2) GSA Set-Aside Program (Budget Account 54). On 2 August 1991, GSA issued a policy letter stating that it would implement an energy conservation program which would fund energy retrofit projects at delegated buildings and provide agencies with guidance to conduct long-term planning, energy audits, and life cycle costing to meet the energy reduction goals outlined in Public Law 100–615 and Executive Order 12759. Agencies wishing to compete for funds under this program would be evaluated on the following criteria:

- Project cost (must exceed \$10K but total less than \$1.6M to include planned nonrecurring expenditures or total less than \$750K if projects are in leased buildings where the government pays utilities separately from the lease)
- Savings-to-investment ratio
- Simple payback
- Annual million British thermal units (Mbtu) Savings
- Inspection score (minimum score of 85)
- Lease status

(3) Energy Savings Performance Contracting. According to the Energy Policy Act (1992), an energy savings performance contract (previously referred to as Shared Energy Savings (SES)) is an arrangement or agreement between the government and a contractor to increase energy efficiency and reduce energy related operating costs of a building, group of buildings, or facility, whereby the contractor incurs the cost and provides the assets to implement energy savings measures such as performing the audit, designing the project, acquiring, installing, testing, operating, maintaining, and repairing the equipment (to include software systems) and training personnel, in exchange for a portion of the actual energy savings the contract which is not to exceed 25 years. In other words, the contractor provides a service to the government, finances the project (although can arrange for a third party (e.g., leasing bank) to finance the project), and is reimbursed based on the actual energy savings, if any. This last point is crucial to the understanding of energy savings performance contracts. The contractor is paid a negotiated price (a dollar amount) or a percentage or "split" of the savings incurred (i.e., 50/50, 60/40 etc.) based on a predetermined sharing formula agreed to by both parties and

stated in the contract. The contractor must prove actual energy savings each month in order to be paid. If savings are not achieved, then the contractor does not receive payment. Sometimes, however, arrangements can be made between the contractor and the government to provide payment on a more flexible basis. Under the new Energy Policy Act (1992), it is stated that the contractor can receive payment per month based on an agreed amount regardless of any savings incurred. At the end of the year, an audit is conducted to determine actual savings. If actual savings to the government are less than expected, then the contractor may pay back the difference to the government. This last condition has not yet been implemented with the Department of the Army.

(a) The following list reflects the types of energy savings performance contract projects either proposed or awarded at Army installations (see Table F-1).

- Chiller retrofits
- Electrical peak shaving plants
- Lighting retrofits
- Group coupled air source heat pumps
- Propane-air mixing plants
- Geothermal
- Utility control systems
- Air conditioning retrofits

(b) During the conduct of the study, Army representatives who were using energy savings performance contracting to finance energy projects at their installations were interviewed and asked about their experiences. Strengths and weaknesses using the energy savings performance contracting approach were identified. Easier and faster access to capital financing and increased incentive for project success in terms of energy cost savings (among the contractor and customer) were identified as the most positive aspects of the method. Obtaining manpower support; minimizing high cost overhead; considering environmental impacts (depending on type of project); and encouraging contractors to commit to a long-term relationship with defense organizations under the current down sizing effort and economic situation were identified as the most negative aspects. The US Army Corps of Engineers, Huntsville Division (Huntsville, Alabama) serves as the Center of Expertise for the Department of the Army in assisting with energy savings performance contract opportunities. Based on Huntsville's experience with assisting installations with energy savings, they wrote a paper (see bibliography) on their lessons learned. The following list is taken from that paper; it explains the barriers found with the approach.

- Few precedents to guide those who undertake SES contracting in the Army
- Lack of development of government SES contracting expertise
- Government lack of knowledge of industry concerns relative to SES contracting
- Loss of technical and contractual knowledge due to employee turnover
- Determining how the government will be able to operate the SES system if the contractor defaults
- Predetermining the government's needs at contract end
- Lack of industry interest in government SES contracts due to termination of convenience
- Providing assurances that the contractor will provide services as bid
- Ensuring customer commitment to the SES contracting effort
- Ensuring the understanding between the contractor and the government concerning the SES contract boundary
- Determining the most effective energy baseline
- Impact of perceived and actual risk on government SES contracting efforts
- Government commitment to unnecessarily lengthy SES contracts

Table F-1. Energy Savings Performance Contracts in the Army

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(As of April 20, 1993)

Project name/location	Project description	<b>Contractor</b> investment	Government projected share of savings	Contractor projected share of savings	Contract terms
Carpus Christi <b>Army Depa</b> t Carpus Christi, TX	Chiller retrofit and upgrade of electrical service in aircraft hangar building housing aircraft paint booths, taping and touch-up bays and offices	\$755,850	\$3,460,791 (31.4%)	\$7,572,105 (68.6%)	25 Years
Aliamanu Family Housing Area, Honolulu, Hi	Chiller retrofit, EMS expansion, controls, and lighting retrofits in a family housing complex that includes a shopette/gas station, athletic facilities and a chapel	\$10,150,088	\$7,841,051 (28%)	\$19,689,758 (72%)	15 Years
Gas Air/Propane Mixing Plant, Ft. Stewart, GA	Base-wide peak shaving project for propane-air mixing plant	\$921,570	\$4,042,091 (50.5%)	\$3,968,921 (49.5%)	15 Years with a 5 year option
Gas Air/Propane Mixing Plant, Ft. Gillen/McPherson, GA	Base-wide peak shaving project for propane-air mixing plant	\$1,052,000	\$7,077,969 (71.6%)	\$2,811,852 (28.4%)	15 Years with a 5 year option
Fi. Polk, LA	HVAC retrofit in family housing area (4,003 units)				20 Years presently in negotiations; expect award Oct 93
Ft Drum, NY	Gas distribution system				Presolicitation notice 22 Jul 93; response due 17 Aug 93

- Unrealistic expectations concerning length of SES contract development
- The life cycle analysis is based on the bids and technical evaluation of the bids. It is a projection of the cash flows thought most likely by the government. However, it is dependent on the technical personnel for interpretation of the savings claimed by the contractor. If the technical personnel cannot judge the accuracy of the energy savings claimed by the bidder, then the life cycle analyst must give the bidder credit for savings claimed.
- Reducing government risk due to the difference in energy inflation and general inflation
- Local utility action that can substantially affect the SES project.

(c) In general, the energy savings performance contract method of financing energy projects is an excellent source of alternative funding for the government, specifically, the Department of the Army. It is quite viable when the payback period is short, i.e., 3 to 4 years, when immediate results can be acquired. However, a long-term contract has the advantage of increasing the customer's and contractor's incentive for ongoing project success, since fees are based on performance and energy savings.

(4) Third Party Contracting. Third Party Contracting (TPC) is a financing arrangement which permits the government to enter into long-term contracts (up to 30 years) with private companies for the purchase of utility services (e.g., heating, cooling, electric). The contractor designs, builds, owns and operates the facility/plant which provides a service/commodity on government land. The government buys a certain level of this service/commodity and pays for it on a per unit basis at a fixed minimum price. This fixed rate is prenegotiated and is paid to the contractor regardless of whether or not the service is used. For example, if the government agreed to pay a fixed price of \$100 per month for electric and used it in months 1, 2, and 3 but did not in month 4, the government is still required to pay \$100 per month for months 1, 2, 3 and 4. Likewise, if the government uses more of the service, then the government pays more for it. According to the US Army Corps of Engineers at Huntsville, the Center of Expertise for supporting HQDA for the pursuit of privatization or TPC, TPC is not currently used by the Army to finance energy services, principally because it is not lucrative for either the Army or the contractor.

#### (5) Demand Side Management

#### (a) Introduction

1. This paragraph reports the results of CAA's evaluation of the demand side management (DSM) programs which were being offered by the 34 commercial utility companies servicing the 49 Army sites examined in the REEP Study. The survey specifically focused on identifying cash rebate offers made during the time the REEP Study was conducted as inducements for implementing selected ECO measures. Figure F-1 identifies the 34 servicing utilities by study site.

2. The Energy Efficiency Resource Directory: A Guide to Utility Programs, September 1992, prepared for the President's Commission on Environmental Quality, was used for initially identifying servicing utility companies (referred to in following paragraphs as "utilities") which had ongoing DSM programs and program points of contact. Utility DSM program representatives were contacted and asked to provide literature describing the specifics of current DSM program offers. Except where otherwise noted, these utility publications and correspondence comprised the main sources for the information, findings, and conclusions presented in the DSM portion. Telephone conversations with utility DSM program representatives were used, as needed, to supplement information contained in utility publications.

State	Utility company	Army site serviced	State	Utility company	Army site serviced
AL	Alabama Power	Anniston AD Redstone Arsnl Rucker	NC	Carolina Power & Light	Bragg
AR	Ark Power & Light	Pine Bluff Arsnl	MO	Show-Me Power	L. Wood
			!	Kansas City Power & Light	Lake City AAP
AZ	Tucson Electric Power	Huachuca	IJ	Jersey Central Power & Light	Dix Monmouth Picatinny
CA	Pacific Gas & Elec	Ord Presidio SF	NY	Niagara Mohawk Power	Drum Watervliet
	So Cal Edison	Irwin			
<u> </u>	Colo Springs Municipal	Carson	ОК	Public Service Co of OK	Sill
	Western Power Admin	Pueblo AD			
GA	Georgia Power	McPherson Stewart Benning Gordon	SC	So Carolina Elec & Gas	Jackson
IL	Iowa-III Gas & Elec	Rock Island Arsnl	TN	TVA	Holston AAP
KA	Kansas Power & Light	Riley Leavenworth	тх	Texas Utilities San Antonio Municipal	Hood Sam Houston
				El Paso Elec Co	Bliss WSMR
				Central P& L	Corpus Christi
				Southwestern Elec Power	Red River Depot
KY	Pennyrile/TVA	Campbell	UT	Western Area Power-17% (DOE) Utah Power & Light	Tooele Depot
LA	LA Power and Light	Polk	VA	Virginia Power	Eustis Læ Belvoir Walter Reed
				Appalachian Power	Radford AD
MA	New England Power	Devens	WA	TACOMA Public Utilities	Lewis
MD	Balt Gas & Electric	Meade Aberdeen	WI	Northern States Power	МсСоу
	Potomac Edison	Detrick			
MI	Detroit Edison	Detroit Arsnl			

Figure F-1. Servicing Utility Companies Included in DSM Survey

3. The basic methodology used for assessing the potential economic impact of DSM cash rebates upon Army ECO investments was to apply the utilities' current DSM program criteria (as specified in DSM publications) to identify study ECO which qualified for cash rebate offers and the amount of any such rebates. This approach identified the approximate dollar rebate amount which could have been collected by the Army had the study ECO measures been implemented at the study sites at the time the survey was undertaken.

#### (b) Background

1. A provision of EPACT, which was enacted during the course of the study, permits and encourages governmental agencies to participate in utility DSM programs and prohibits utilities from denying these offers to governmental agencies. Executive Order (EO) 12759, 17 April 1991, directs governmental agencies (including DOD) to remove any impediments to receiving, using, and taking DSM management services, incentives, and rebates which may be offered by servicing utility companies and other private sector energy service providers. In consonance with Task 2 of the REEP Study and pursuant to the provisions of EPACT and EO 12759, CAA evaluated the DSM programs which were being offered by the 34 utility companies servicing the study sites.

**2.** The purpose for evaluating utility DSM program offerings was to determine:

- Which utilities companies were operating DSM programs offering incentives for implementing energy conservation measures (or ECO);
- Which ECO included in the study would qualify for cash rebates under the criteria specified for these DSM program offers; and
- What was the estimated present year (FY 1993) dollar amount of all such cash rebate offers for all study ECO at all study sites.

3. Although typically DSM programs offered customers a range of incentive packages which included cash rebates, special rates, loans, and free services, the DSM program evaluation was directed at identifying cash rebate offers. The complex terms and procedures governing the application and quantification of incentive packages other than cash rebates rendered them impracticable for a centralized assessment within the scope of the study. Identification of rebates was also limited to offers encompassing retrofit actions/situations. While rebates and other incentives are typically offered for new construction and replacement actions, they were not within the scope of REEP retrofit scenario.

# F-5. GENERAL CHARACTERISTICS AND FINDINGS FOR SURVEYED DSM PROGRAMS

a. The primary objective of DSM strategy is to keep pace with customer demand for energy by implementing energy efficiency and conservation measures and forestalling or avoiding the enormous capital investment outlays which would otherwise be required to construct new energy generating plant capacity. A secondary effect of utility DSM programs is the reduced impact on the environment when compared to the alternatives of building more power plants or buying and consuming more power from outside sources (i.e., alternative supply side solution).

**b.** The level of incentives (rebates, special rates, loans, and free services) that utility companies offer customers as inducements for them to participate in various DSM programs is carefully calculated based upon the cost avoidance savings of deferring large capital outlays for additional plant. In essence, utility companies often find that it is economically preferable to secure cost avoidance savings by sharing a portion of these savings with customers. As could be expected, the most aggressive DSM programs were found among those utility companies which had energy demand patterns that approached the upper limit of the utility's peak energy generating capacity.

c. While the common objective for all DSM programs was to promote energy efficiency through conservation and load management strategies, the various utility DSM programs aimed at this objective could not be uniformly characterized and assessed. There was found to be a range of factors bearing on the availability, content, and impact of DSM programs nationwide. Since the terms of utility DSM programs were found to be unique in every case, each program was reviewed and assessed individually to identify and gauge the impact of cash rebate offers on study ECO at each site.

d. Some programs were found to be more dynamic than others. Utilities evaluated, revised, and funded these on an annual basis to reflect areas of changing emphasis and emerging technologies. Also, the funding level for some of these programs appeared to have been more closely tied to the utility's annual profit margin and state utility regulators. Other programs were found to be more institutionalized in that they were relatively more stable in scope, funding level, and duration.

e. Representatives for those utilities not operating a DSM program or pursuing one of limited scope informally acknowledged that this was because there was little or no economic incentive at that time due to existing excess plant generating capacity. Some representatives also indicated that while this was the utility's current supply versus demand situation, that the utility had entered into mid- to long-range planning for future DSM programs to assist them in meeting higher energy demands in the future.

f. For surveyed utilities with ongoing programs targeted at commercial/industrial customers, the predominant issues bearing on the scope, content, and impact of the programs were:

- Peak customer demand versus plant peak energy generating capacity
- Customer category/market and level of energy consumption (e.g., commercial, industrial, agricultural, residential)
- Electrical demand pattern (peak versus offpeak consumption)
- End-use of energy (e.g., lighting, heating, cooling, or process)
- Fuel types used by systems (e.g., electricity, gas, renewables)
- Targeted technologies and equipment (e.g., high efficiency HVAC systems and appliances)
- Targeted situations (retrofit, new construction, or replacement)
- System operating efficiency minimums, standards, and targets, and
- Upper limits on total dollar amount of rebate offers to a single customer.

g. Typically, DSM programs were developed and offered by utilities for these five basic customer categories: residential, commercial, industrial, agricultural, and institutional/municipal. These categories are briefly defined below. Since the Army sites addressed in the study fell in the commercial and industrial customer categories, evaluation of rebate offers centered on the programs directed at these two customer categories.

**Residential:** This classification applies to customers purchasing electric power or natural gas for household use. Households are usually further categorized as single- or multi-family dwellings.

**Commercial**: This classification applies to customers purchasing electric power or natural gas for use in retail businesses such as retail stores, restaurants, warehouses, and lodging.

**Industrial**: This classification applies to customers purchasing electric power or natural gas for use in manufacturing businesses, plants, and mining operations.

Agricultural: This classification applies to customers purchasing electric power or natural gas for use in agricultural businesses such as growing crops, raising livestock, and pumping water for irrigation.

**Institutional, municipal, and nonprofit:** This classification applies to customers purchasing electric power or natural gas for nonresidential businesses not identified elsewhere such as schools, colleges, hospitals, and other institutions.

h. The descriptions of typical DSM programs/services offered by utilities to customers presented in the section were derived from the Energy Efficiency Resource Directory: A Guide to Utility Programs, September 1992, and utility publications. The basic types of incentive programs identified in the survey as typically offered by utilities to commercial and industrial customers are described below.

(1) Prescriptive Rebate Programs. These programs are to encourage commercial and industrial customers to purchase and install energy efficient equipment, typically in the areas of lighting, cooling, heating, refrigeration, and motors. Rebates are offered in a prescriptive format in which the utility pre-selects energy efficiency measures that are economically attractive to both utility and customer. The customer decides which, if any, measures to purchase and install. The utility pays the rebate after proof of ECO installation is provided. The utility often sets minimum efficiency levels for prescriptive measures which exceed local, state, and Federal building codes and standards. Customers often participate in these programs when faced with immediate equipment replacement decisions resulting from equipment failure, obsolescence, or a desire to cut costs through energy efficiency retrofit measures, as was the case scenario for REEP. The amount of some rebate offers was fixed, but in most instances varied according to factors considering system power consumption and energy efficiency levels. An example of a typical fixed prescriptive rebate offer made by Southern California Edison was a flat \$20 for each room occupancy sensor the customer installs. Examples of variable prescriptive rebate offers for installing efficient motors by Niagara Mohawk and Baltimore Gas and Electric (BG&E) are presented in Tables F-2 and F-3, respectively. As shown, the amount of rebate offered varies depending upon the size and efficiency of the motor. For larger motors (60 horse power and above), BG&E rebates also depend on the intended end-use of motors. Larger rebate amounts are offered for replacement motors than for plant expansion motors. The additional amount is offered for existing motors as inducement to swapout (retrofit) older, less efficient motors. The increased amount helps the customer defray labor cost and is indicative of BG&E's strong commitment to DSM as a cost effective means of meeting customer energy demands.

(2) Customized Incentive Programs. Utilities offer customer rebates for purchasing and installing energy efficient equipment chosen by customers to meet their unique energy needs. These programs are flexible and tailored to accommodate individual customer-selected energy efficiency measures on a site-specific basis and are generally targeted to nonresidential customers. Because of the diversity among building types and energy end-uses found among nonresidential customers, each participant's customized measures/rebate package is usually unique. Typically, a number of measures are preselected by the customer in consultation with the utility or the utilities' engineering services contractor and approved by the utility. During this process, the utility establishes a rebate offer amount for implementing the custom designed energy package based upon an evaluation of the economic impact upon current and future utility operations. While customized rebate program measures, it was not possible to estimate the potential for these rebates because of the customized features of the program. It was observed that the potential customized rebate amount for some sites may be greater than the total amount of potential prescriptive rebates offered for qualifying ECO at the same site.

Motor horsepower	Minimum eligible nominal efficiency %	High efficiency motors rebate \$
1	84	35
1.5	84	35
2	85	35
3	86	· 35
5	87	40
7.5	89	60
10	90	80
15	90	120
20	91	160
25	93	200
30	93	240
40	93.6	320
50	94	400
60	94.1	480
75	94.5	600
100	94.5	800
125	95	1000
150	95	1200
200	95.4	1600
250	95.8	2000
300	95.8	2400
350	95.8	2800
400	95.8	3200

 
 Table F-2 . Cash Rebates Offered by Niagara Mohawk for Installing High Efficiency Motors

Table F-3. Cash Rebates Offered by Baltimore Gas and Electric for Installing High
Efficiency Motors

Size	Minimum		Rebate	
(hp)	Required	(TE	FC)	(ODP)
•••	efficiency	Replacement motors	Plant expansion motors	Plant expansion & replacement motors
1	82.5%	\$4		\$40
1.5	84.0%	\$5	0	\$50
2	84.0%	\$5	0	\$50
3	87.5%	\$7	0	\$70
5	87.5%	\$7	0	\$70
7.5	89.5%	\$9	0	\$90
10	89.5%	\$1	10	\$110
15	91.0%	\$13	50	\$150
20	91.0%	\$1	70	\$170
25	92.4%	\$2	20	\$220
30	92.+%	\$20	50	\$260
40	93.0%	\$30	50	\$360
50	93.0%	\$47	70	\$470
60	93.6%	\$550	\$490	\$300
75	94.1%	\$800	\$550	\$320
100	94.5%	\$1100	\$890	\$400
125	94.5%	\$2200	\$1500	\$530
150	95.0%	\$3000	\$1600	\$730
200	95.0%	\$3200	\$2000	\$1050
250	95.0%	\$3400	\$2200	\$2300

(3) New Construction Programs. Utilities typically offered rebates for installation of energy efficiency measures in new nonresidential buildings, most often commercial buildings. New construction offers opportunities to design and install energy efficient measures from the ground up that would be impractical to install in existing structures. To qualify for rebates, energy efficiency of equipment and practices must exceed existing government standards and codes for commercial buildings. In addition to rebates, utilities often provide co-funding for design studies and engineering assistance when building plans are modified to incorporate energy efficient measures.

(4) Energy Audit Programs. Utilities offer customers free energy audits conducted by utility personnel or contracted architectural/engineering firms. The purpose of energy audits is to identify energy efficiency opportunities which may exist with regard to facilities, equipment, and processes. If the customer subsequently decides to implement some or all the opportunities, they would likely qualify for a cash rebate under the prescriptive or customized program.

(5) Maintenance/Tune-Up Programs. Utilities offer customers incentives to implement relatively low cost tune-up and maintenance measures designed to improve energy efficiency. These generally include such measures as HVAC adjustments, weatherization, motor tune-ups, condenser coil cleaning, fixture cleaning, and low cost lighting measures.

i. Generally, DSM program incentive offers were equally available within the terms of the offer to all utility customers falling within the general customer category. However, in some instances, utilities were found to restrict offers to a more select group of customers falling within the category. For example, one utility limited offers to only hospitals and schools. In another instance, a utility which serviced customers in both Idaho and Illinois limited residential incentive offers to its Idaho customers because the Illinois utility commission declined to approve the offers for Illinois customers.

**j.** The dynamics of some DSM programs examined during the study were such that it was possible only to gauge the broad economic impact that would result from investment in study ECO. While precise impacts could not be uniformly measured, reasonable estimates of probable cash rebate savings for some ECO measures could be derived. These rebates are conservative estimates supported by detailed examinations of the actual DSM programs which were being operated by the utilities at the time the REEP Study was conducted. Table F-4 identifies the estimated cash rebates by ECO which were found to be available. These estimates were derived solely from prescriptive program offers and exclude additional rebate offers which would be available under customized rebate programs. The total potential rebate estimate of \$12,142,000 associated with implementing study ECO is conservative. If all study ECO measures were implemented, the rebate amount which could reasonably be expected to accrue would likely be more than twice this estimated amount if additional rebate incentives offered for customized programs and additional savings accruing from DSM program special rate offers could be considered.

Table F-4. Estimates of	Cash Rebates (for the	e 49 Sites) Resultin	g from Utility
	Prescriptive Rebate	Offers	

ECO	Total rebate offer (K)
2X4 Fluorescent lighting w/electronic ballast	5,471
Compact fluorescent lighting	1,988
Exit lighting	249
Occupancy sensors	341
Motors	1640
Programmable thermostats	245
High efficiency gas furnace	321
Cool storage	1237
Ceiling insulation	31
Window film	20
Blown-in wall insulation	136
Gas heat pump	462
Total	\$12,142

k. Generally, prescriptive programs operated by servicing utilities did not include rebate offers for the ECO measures identified below. However, several of these measures would qualify to receive rebates under selected utility customized rebate programs.

- Modular boilers
- Reflective roof membrane
- Water heater blankets
- Nominal efficiency gas furnace
- Flue dampers with electronic ignition
- Manhole sump repairs
- Gas chillers
- Digital control panels

I. Survey findings indicated that the economic impact of ongoing DSM programs would serve to make an Army energy efficiency investment package more economically attractive than is portrayed by the overall study results presented in Chapter 3. Conservatively estimated, additional Army cost savings (the term "cost savings" is used here to denote the impact of cash rebates since they were considered as eventual dollar offsets to ECO investments) of \$12.1 million, above the savings levels identified for the base case in Chapter 3, would accrue from utility DSM programs. This added cost savings would be substantially higher if the savings impacts of customized rebate and special rate offers were considered.

#### APPENDIX G

#### SPONSOR'S COMMENTS



DEPARTMENT OF THE ARMY ASSISTANT CHIEF OF STAFF FOR INSTALLATION MANAGEMENT 600 ARMY PENTAGON WASHINGTON DC 20310-0600



AIM-FDF-U (11-27)

2 9 DEC 1993

MEMORANDUM FOR THE DIRECTOR US ARMY CONCEPTS ANALYSIS AGENCY, ATTN: CSCA-FSR(5-5d), 8120 WOODMONT AVENUE, BETHESDA, MARYLAND 20814-2797

SUBJECT: Renewables and Energy Efficiency Planning (REEP) Study

1. Reference memorandum, CSCA-FSR(5-5d), 2 November 1993, SAB.

2. Referenced memorandum requested us to evaluate, review, and comment on the REEP study draft report.

3. Enclosure i is a completed evaluation of the REEP report as requested by your office and required by AR5-5.

4. My point of contact for this action is Qaisar Toor, DAIM-FDF-U, COMM (703) 355-2026, DSN 345-2026.

. GS

Major General, GS Assistant Chief of Staff for Installation Management

Encl

## STUDY CRITIQUE

(This document may be modified to add more space for responses to questions.)

1. Are there any editorial comments? <u>No</u> If so, please list on a separate page and attach to the critique sheet.

2. Identify any key issues planned for analysis that are not adequately addressed in the report. Indicate the scope of the additional analysis needed. <u>None</u>

3. How can the methodology used to conduct the study be improved?

No change

4. What additional information should be included in the study report to more clearly demonstrate the bases for the study findings? <u>No change</u>

5. How can the study findings be better presented to support the needs of both action officers and decisionmakers? <u>No change</u>

6. How can the written material in the report be improved in terms of clarity of presentation, completeness, and style? <u>No change</u>

G-2

## **STUDY CRITIQUE** (continued)

7. How can figures and tables in the report be made more clear and helpful? No change

of the REEP Study.

In what ways does the report fail to satisfy the expectations? None

9. How will the findings in this report be helpful to the organization which directed that the work be done? <u>The analytical capability developed and demonstrated</u>

in the REEP Study significantly enhances your leadership's ability to

manage the Army's energy program and policy.

If they will not be helpful, please explain why not.

Not applicable

10. Judged overall, how do you rate the study? (circle one)

Poor Fair Good Excellent Average A landmark piece of work!

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## APPENDIX H

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## GLOSSARY

# ABBREVIATIONS, ACRONYMS, AND SHORT TERMS

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AMCCOM	Ammunition and Chemical Command
AR	Army regulation
ASAILE	Assistant Secretary of the Army for Installations, Logistics, and Environment
BRAC	Base Realignment and Closure
CAA	US Army Concepts Analysis Agency
CENET	
CERL	US Army Corps of Engineers National Energy Team
	US Army Construction Engineering Research Laboratory continental United States
CONUS	
DOD	Department of Defense
DOE	Department of Energy
DSM	demand side management
ECAM	Energy Conservation and Management Program
ECIP	Energy Conservation Investment Program
ECO	energy conservation opportunity (ies)
EPACT	Energy Policy Act of 1992
EO	Executive Order
FOMOA	Force Modernization Analyzer
FY	fiscal year
GOCO	government-owned, contractor-operated
GSA	General Services Administration
HQDA	Headquarters, Department of the Army
HVAC	heating, ventilation, air conditioning
IAW	in accordance with
kW	kilowatt(s)
LCC	life cycle cost
LSCIP	Labor-Saving Capital Investment Program
MACOM	major Army command
Mbtu	million British thermal units
MCA	Military Construction, Army
MILCON	military construction
MOF	model objective functions
NPR	National Performance Review
OMA	Operations and Maintenance, Army
OPA	Other Procurement, Army
OSD	Office of the Secretary of Defense
OSL	Optimization Subroutine Library
PAA	Procurement of Ammunition, Army
PCIP	Productivity Capital Investment Program
PECIP	Productivity Enhancing Capital Investment Program
PIF	Productivity Investment Funding
PIP	Product Improvement Program
PPBES	Planning, Programming, Budgeting, and Execution System
QRA	quick reaction analysis
QRIP RDA	Quick Return of Investment Program Research Development and Acquisition
REEP	Research, Development, and Acquisition Renewable and Energy Efficiency Planning (REEP) Study
	Renewable and Energy Efficiency Planning (REEP) Study Renewables and Energy Efficiency Sustainable Investment
REESIN	Renewables and Energy Efficiency Sustainable Investment (REESIN) ORA

RIM	REEP Investment Model
SEER	Seasonal Energy Efficiency Rating
SERDP	Strategic Environment for Research and Development Program
SES	Shared Energy Savings
STON	short ton
TOA	total obligational authority
US	United States
USC	United States Code