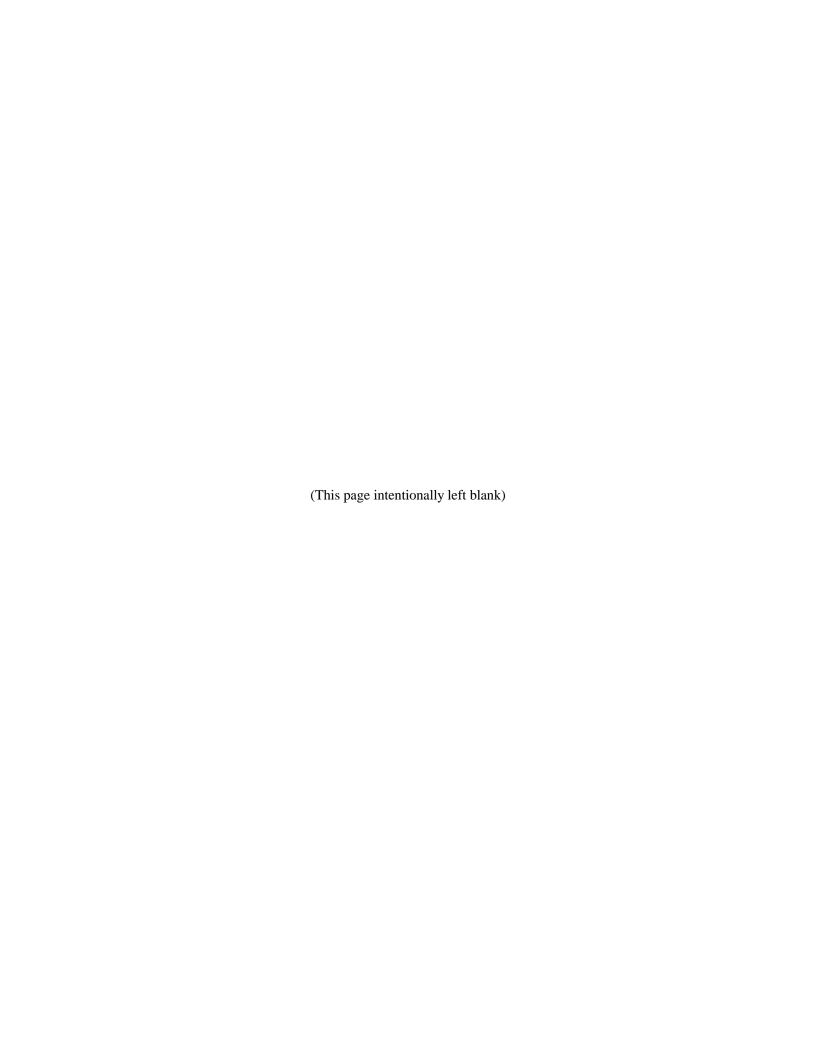


Office of ENERGY EFFICIENCY & RENEWABLE ENERGY

Guidance and Recommendations for Streamlining Reporting for Federal Energy and Water Efficiency Projects

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Preface

This guidance was prepared by Lawrence Berkeley National Laboratory for the U.S. Department of Energy/Office of Energy Efficiency and Renewable Energy/Federal Energy Management Program.

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List of abbreviations and acronyms

CTS EISA Compliance Tracking System

DOE Department of Energy

ePB eProject Builder

EISA Energy Independence and Security Act of 2007

ESPC Energy savings performance contract

FEMP Federal Energy Management Program

IDIQ Indefinite-delivery, indefinite-quantity

LBNL Lawrence Berkeley National Laboratory

M&V Measurement and verification

UESC Utility energy service contract

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Guidance and Recommendations for Streamlining Reporting for Federal Energy and Water Efficiency Projects

1 Introduction

Federal agencies are required to report on their progress in meeting various energy and water management requirements (42 U.S.C. § 17143, 42 USC 8253(f), 42 U.S.C. § 8258(a), 42 U.S.C. § 8287b). These reporting requirements encompass energy and water projects at federal facilities, including projects that are alternatively financed, e.g., conducted through energy savings performance contracts (ESPCs) or utility energy service contracts (UESCs). The purpose of this guidance is to provide recommendations to streamline federal agency reporting. The guidance recommends the use of eProject Builder (ePB), a project development and archiving tool for energy projects. ePB carries additional value in its simplification of federal agency reporting by dovetailing with the Federal Energy Management Program's (FEMP's) EISA 432 Compliance Tracking System (CTS), as described more below.

2 Overview of Reporting Requirements

The following statutory provisions establish required federal agency energy project reporting (see FEMP's Performance Tracking and Reporting site describing each requirement):

- 42 U.S.C. § 8253, Energy Management Requirements, and 42 U.S.C. § 8258, Reports
 - Annual Investment Report: Each year, federal agencies report on aggregate efficiency project investment funded through direct obligations, ESPCs, and UESCs. This includes the number of project awards under each funding type, estimated annual energy savings, and financing costs where appropriate. (See Federal Facility Reporting Requirements and Performance Data.)
 - o Initiated Projects Report and Project Follow-up Report: On an ongoing basis, federal agencies report project-level information on *individual* projects undertaken in facilities covered under the requirements of 42 U.S.C. § 8253(f) established in Section 432 of the Energy Independence and Security Act of 2007 (EISA 432). Federal agencies report awards of initiated projects that are funded with direct obligations or alternatively financed through ESPCs or UESCs, including their estimated energy, water, and cost savings, in the web-based CTS, which was established by DOE as directed by EISA. There is also a requirement to report on measured and verified annual savings from these initiated projects in covered facilities to ensure persistence of savings. (See EISA Federal Facility Management and Benchmarking Reporting Requirements.)
- 42 U.S.C. § 8287b, Reports
 - Requires federal agency reporting periodically to DOE "full and complete information" regarding ESPC activities.

This document provides the guidance for federal agencies to comply with these aforementioned energy project reporting requirements.

3 Tool to Streamline Reporting: eProject Builder

eProject Builder (ePB) is a web-based energy project tracking and archiving system developed and maintained by Lawrence Berkeley National Laboratory (LBNL) that can assist federal agencies in their energy project reporting. FEMP recommends using ePB for development and monitoring of all major federal agency energy projects, as well as for streamlining project reporting pursuant to 42 U.S.C. §§ 8253(f), 8258(a), and 8287b. Using ePB can help federal agencies avoid duplicative or otherwise unnecessarily burdensome efforts by capturing information for the life of each project in one place. Specifically, ePB captures all of the necessary data fields for 42 U.S.C. § 8253(f) and 42 U.S.C. 8258(a) reporting requirements, as well as for ESPC-related reporting. These ePB fields (generally found in project proposals) are identical to the fields required for the CTS (Table 1):

Table 1. Project proposal fields common to ePB and CTS.

Agency name (cabinet-level)
Project name
Project ID
Date of project contract signing
Project acceptance date
Total project implementation cost (exc. financing)
Total performance period expenses
Total project cost (inc. financing)
Total project implementation cost (exc. financing)
Total project cost (inc. financing)
Contract term (years)
Annual estimated energy savings (million Btu)
Estimated annual savings - electricity use (kilowatt-hours)
Estimated annual savings - natural gas (million Btu)
Estimated annual savings - other energy (million Btu)
Estimated annual savings - water use (thousand gallons)
ECM - technology category

Table 2 lists some of the key measurement and verification (M&V) data fields collected in ePB and CTS, i.e., information that is collected once projects are in their performance period.

Table 2. M&V fields common to ePB and CTS.

Project acceptance date
Award date
M&V report date
M&V option
M&V report approval date
M&V report reviewed date
Verified annual savings - electricity use (kilowatt-hours)
Verified annual savings - natural gas (million Btu)
Verified annual savings - other energy (million Btu)
Verified annual savings - water use (thousand gallons)

ePB was designed to be compatible with the terminology and conventions used in the documentation of federal energy projects. ePB is already widely used to implement and track ESPC projects, significantly reducing data input and project tracking burdens on federal agencies. For example, ESPC projects using DOE's third-generation indefinite-delivery, indefinite-quantity (IDIQ) contract (eff. 4/2017) are currently required to use ePB for project development. These contracts place the responsibility on ESCOs to populate ePB. Consequently, the reporting burden on federal agencies associated with these ESPCs is significantly reduced and federal agency personnel can access the necessary reporting fields in a CTS-importable format. In addition, ePB is compatible with UESCs and projects that are not financed and funded from direct obligations.

Moreover, ePB is currently being enhanced to seamlessly upload the desired data elements from ePB into CTS (see Figure 1, below).

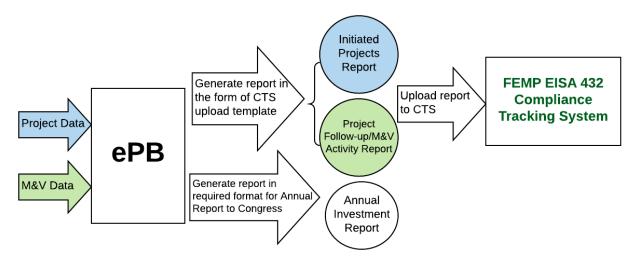


Figure 1. Planned data flow from ePB to CTS.

The Initiated Projects Report is currently available in a CTS-importable format and the Follow-up/M&V Activity Report and Annual Investment Report are currently under development in ePB.

4 Project-Specific Reporting Requirements

4.1 ESPCs

Federal agencies are required by 42 U.S.C. § 8287b to periodically report to DOE full and complete information regarding ESPC activities. This section sets forth the data that federal agencies should include in their annual report on ESPC activities for both initial ESPC project award and annual ESPC M&V data reporting to meet the 42 U.S.C. § 8287b reporting requirement. The same reports can also be used for federal agency CTS reporting under 42 U.S.C. § 8253(f) for initiated projects undertaken at EISA-covered facilities, as is discussed below.

Using ePB to implement and track ESPC projects can significantly reduce federal agency data input and project tracking burdens. ESPC project reporting burdens may also be reduced because Federal agencies have the ability to allow FEMP to directly access project data in ePB. For federal agencies using a DOE IDIQ contract, no separate ESPC reporting is necessary for 42 U.S.C. § 8287b, because DOE's third-generation ESPC IDIQ contracts require use of ePB for project development and management and FEMP can directly access the necessary reporting data for these projects in ePB.¹ For ESPC projects that do not use a DOE IDIQ contract, Appendix B provides additional information on possible ePB requirements to consider for inclusion in an ESPC. To the extent possible, FEMP recommends that federal agencies include in non-DOE IDIQ ESPCs a requirement directing ESCOs to enter project data into ePB. Federal agencies may opt not to use ePB to report ESPC data, in which case this guidance provides data files (derived from ePB) that set forth the data points that should be included in a federal agency's annual report to DOE on its activities under 42 U.S.C. 8287, et seq.

ESPC data entered in ePB also allow federal agencies to more efficiently meet their ongoing reporting requirements for 42 U.S.C. § 8253, Energy Management Requirements, and 42 U.S.C. § 8258, Reports. As outlined in Section 3, ePB allows federal agencies to streamline ongoing CTS reporting under 42 U.S.C. § 8253(f) for initiated projects undertaken at EISA-covered facilities. ePB produces input files for upload to CTS (see ePB for more details), which federal agencies can utilize to streamline reporting, using the same data in ePB for CTS reporting. The Annual Investment Report and Project-Follow-up report data streamlining capabilities are being developed as described in Section 3.

42 U.S.C. § 8287b Reporting

Reporting Frequency:

Reporting on the prior calendar year's project awards and M&V reporting for projects in their performance periods should be submitted not later than January 31st.

Data to be reported:

ESPC awarded project data, and post-installation and annual M&V data are to be reported. The data points to be reported for awarded projects can be found in the *ePB Data Template User Guide*. Appendix C of this guide includes in template format the ePB data points, which are also accessible in electronic format online. If an ESPC project will be tracked and managed in ePB, a federal agency or its contractor/ESCO can provide the New Project Data and Annual M&V Data below, which can be populated in ePB (Option 1). Federal agencies may also choose to report data directly to DOE (Option 2).

 $^{^{}m 1}$ FEMP also has access via ePB to the necessary data for any DOE ESPC IDIQ task orders that precede the third-generation IDIQ.

New Project Data: Federal agencies may use one of the following templates to report ESPC awarded project data:

- a. Calculating Template. This template includes standardized amortization calculations for interest and principal payments. FEMP recommends using this template as it employs standardized calculations to determine annual payments.
- b. Non-calculating Template. This template overrides the Calculating Template calculations. This template cannot be used to calculate project cash flow and the output schedules. FEMP only recommends using this template where the specific situation warrants use of different calculations, for example where energy savings decrease over time.

Annual M&V Data: The data fields necessary for reporting post-installation and annual M&V results are listed in the appendix to the *User Guide for eProject Builder M&V Module*.

Method of reporting:

The federal agency has two options for reporting the data to DOE if the awarded task order was not issued under a DOE ESPC IDIQ contract. Each is outlined below.

Option 1:

Federal agencies may use eProject Builder (ePB) directly for their initial ESPC project award, post-installation and annual ESPC M&V reporting. Federal agencies may share ePB data for each project with DOE through a "Project Viewer" designation. A Project Viewer does not have any ability to change the data but has full access to see a given project. Projects may be shared with DOE by designating the following email address as a Project Viewer²: FEMP_ESPC_Reporting@ee.doe.gov

Note: Using ePB is the most efficient way to track and share data, allowing federal agencies to use the powerful features of ePB to analyze their own data. ePB is designed to allow the contractor/ESCO to enter the data such that the federal agency only verifies accuracy before accepting the data.

Option 2:

Federal agencies that choose not to use ePB may share each project's initial award and post-installation and annual M&V data with DOE by e-mailing the New Project Data and Annual M&V Data in electronic format to DOE at FEMP_ESPC_Reporting@ee.doe.gov.

4.2 UESCs

Reporting for UESCs is required under 42 USC 8253(f) and 42 USC 8258(a) as described in Section 2. FEMP recommends the use of ePB for assembling project data elements and using the EISA 432 CTS reporting functions to streamline reporting. CTS accepts the required data elements for UESC projects from the ePB export to populate the "Initiated Projects" report in CTS. (See ePB web link for more details on use).

² Viewer of an ePB project data can be found on page 5 of this link: https://eprojectbuilder.lbl.gov/assets/help/eProject_Builder-Getting_Started_Guide.pdf

The Annual Investment Report and Project-Follow-up report data streamlining capabilities are being developed as described in Section3.

4.3 Direct-funded Projects

Reporting for projects funded with direct obligations is required under 42 USC 8253(f) and 42 USC 8258(a) as described in Section 2. FEMP recommends the use of ePB for assembling project data elements and using the EISA 432 CTS reporting functions to streamline reporting. CTS accepts the required data elements for direct-funded projects from the ePB export to populate the "Initiated Projects" report in CTS. (See ePB web link for more details on use).

The Annual Investment Report and Project-Follow-up report data streamlining capabilities are being developed as described in Section 3.

5 Conclusion

Federal agencies bear a significant burden for reporting their energy and water performance, much of which is focused on the projects they pursue to conserve resources and implement renewable energy at their sites. ePB is a valuable tool for developing and archiving projects, including their performance over time. Leveraging ePB to fulfill federal agency reporting requirements can alleviate some of this reporting burden. Additionally, ePB has developed tools and mechanisms to report these data in a simplified manner that dovetails with federal agencies' CTS and other reporting requirements.

Appendix A: EISA 432 CTS Implemented Project Data Fields

Implemented Project - Data Fields

Field Name	Description	Data Type/ Validation	Required/ Optional		
Project Name	The implemented project name	Text: (100 char max)	Required		
Agency Designated Project ID	Internal agency defined project identifier. This identifier is used to link follow-up activity to existing projects in CTS during batch uploads. It must be unique across the sub-agency.	Text: (50 char max)	Required		
Project Initiation Date	Date of contract award	Date field(s)	Required		
Project Implementation Date	Date when majority of the project was completed and implemented. (substantial completion)	Date field(s)	Optional		
Project Acceptance Date	Date of project completion and formal project acceptance. (equipment commissioned/O&M plan in place)	Date field(s)	Optional		
Funding Source	Funding Source Type: Direct (ARRA) Direct (Centralized Capital Funding) Decentralized Operating Budgets Utility Energy Service Contract (UESC) Energy Savings Performance contract (ESPC) Power Purchase Agreement (PPA) Enhanced Use Lease (EUL) Incentive Program Other	Selection: (list) Funding Source is indicated by supplying the Funding Level (Dollars)	Required (indicate the Funding Level for at least one Funding Source OR supply the Total Project Implementation Cost)		
Funding Level	\$ value associated with funding source	Numeric: (Dollars)	Required for each funding source type selected		
Total Project Implementation Cost	Total Project Implementation Cost may be entered by Funding Source or directly as a total. Does not include financing and interest payments	Numeric: (Dollars) Option: If entered by Funding Source, the system calculates the total of Funding Levels above.	Required		
Financing Costs	Total financing from all funding sources	Numeric: (Dollars)	Required (if applicable)		
Total Awarded Contract Value	Calculated field: Total Project Implementation Costs + Total Financing Costs for all sources	Numeric: (Dollars) system calculated total	Required		
Estimated LCC Net Savings	Measure of cost effectiveness used to validate this project. Value in \$ entered directly	Numeric: (Dollars)	Optional		
Life of Project	Estimated life of project in years	Numeric: (Years, integer)	Optional		

Field Name	Description	Data Type/ Validation	Required/ Optional
Estimated Annual Energy Savings by Fuel Type	Estimated Savings (converted to Million Btu from fuel savings entered in native units below): Electricity Savings (kWh) Natural Gas Savings (Thou. Cu Ft) Coal - Anthracite (Short Tons) Coal - Bituminous (Short Tons) Coal - Coke (Short Tons) Distillate Fuel Oil #1 (Gallons) Distillate Fuel Oil #2 (Gallons) Distillate Fuel Oil #4 (Gallons) Distillate Fuel Oil #6 (Gallons) Distillate Fuel Oil #6 (Gallons) Propane (Gallons) Liquid Propane (Gallons) District Steam (Thou. Lbs.) Chilled Water - Electric Driven (Ton Hours) Chilled Water - Engine Driven (Ton Hours) Kerosene (Gallons) Diesel (Gallons) Other	Numeric: (Saved in native units by fuel type as indicated)	Required (if applicable)
Total Estimated Annual Energy Savings	Combined Estimated Annual Energy Savings entered by Fuel Type or entered directly as Million Btu	Numeric: (Million Btu) Note: Either calculated from native fuel type or entered as a total in Million Btu.	Required (if applicable) At least one: Energy or Water or Renewable Savings, is required.
Estimated Annual Water Savings	Estimated Annual Water Savings	Numeric: (Thou. Gallons)	Required (if applicable; see note for Total Estimated Energy Savings)
Estimated Renewable Savings (Electricity)	Estimated Annual Renewable Electricity Output Savings	Numeric: (kWh)	Required (if applicable; see note for Total Estimated Energy Savings)
Estimated Renewable Savings (Thermal)	Estimated Annual Renewable Thermal Output Savings	Numeric: (Million Btu)	Required (if applicable; see note for Total Estimated Energy Savings)
Efficiency and Conservation Measures Implemented	List of energy and water Efficiency and Conservation Measures (ECMs) implemented within this project grouped by Technology Category; # of ECMs bundled is indicated.	Selection: (list) Allow selection of multiple Technology Categories and ECMs. (choose at least 1 of 20 categories)	Required
Project Comments	Text field for capturing any notes related to this implemented project	Text: (2000 char max)	Optional

EISA 432 CTS Project Follow-up Measurement and Verification - Data Fields

Field Name	Description	Data Type/ Validation	Required/ Optional
Follow-up Activity Date	Indicate date of this M & V report	Date	Required
M & V Methodology	Identify the M & V Methodology used: Option A: Key Parameter monitoring (short term metering/ spot measurements of key parameter) Option B: All Parameter monitoring (long term monitoring of all parameters normalizing for weather occupancy etc.) Option C: Whole Building monitoring Option D: Calibrated Computer Simulation Multiple	Select: (list)	Required
Measured Annual Energy Savings	Measured Energy Savings converted to Million Btu from fuel savings entered by Fuel Type in native units.	Numeric: (Million Btu)	Required (if applicable) At least one: Energy or Water or Renewable Savings, is required.
Measured Annual Energy Savings By Fuel Type	Measured Energy Saving reported by fuel type in native units: Electricity Savings (kWh) Natural Gas Savings (Thou Cu Ft) Coal - Anthracite (Short Tons) Coal - Bituminous (Short Tons) Coal - Coke (Short Tons) Distillate Fuel Oil #1 (Gallons) Distillate Fuel Oil #2 (Gallons) Distillate Fuel Oil #5 (Gallons) Distillate Fuel Oil #6 (Gallons) Distillate Fuel Oil #6 (Gallons) Distillate Fuel Oil #6 (Gallons) Chilled Water/Electric (Ton Hours) Chilled Water/Electric (Ton Hours) Chilled Water/Engine (Ton Hours) Kerosene (Gallons) Diesel (Gallons) Other (Million Btu)	Numeric: (Million Btu)	Required (if applicable) At least one: Energy or Water or Renewable Savings, is required.
Measured Annual Water Savings	Measured Annual Water Savings	Numeric: (Thou. Gallons)	Required (if applicable; see note for Total Estimated Energy Savings)
Measured Renewable Savings (Electricity)	Measured Annual Renewable Electricity Output (Solar PV, Wind, etc.) Savings	Numeric: (kWh)	Required (if applicable; see note for Total Estimated Energy Savings)
Measured Renewable Savings (Thermal)	Measured Annual Renewable Thermal Output (Geothermal, Active/Passive Solar Biomass, etc.) Savings	Numeric: (Million Btu)	Required (if applicable; see note for Total Estimated Energy Savings)

Appendix B: Contract Language and Instructions for ESCO Use of ePB in ESPCs

The following recommended contract language and instructions were adapted from existing language in DOE's ESPC IDIQ contracts, and can be adapted for use in other (non-DOE IDIQ) ESPC contracts to streamline data entry through ESCO participation.

Language for initial award of an ESPC:

"The Contractor shall develop the TO Schedules using the ePB. (see eProject Builder System Instructions). The Contractor is responsible for validating that ePB-produced documents are correct."

Language for post-installation measurement and verification of an ESPC:

"The post-installation report shall include results of eProject Builder (ePB) output (see eProject Builder System Instructions), and M&V data and calculations."

Language for the annual measurement and verification of an ESPC:

"The annual M&V report shall include results of ePB output (see eProject Builder System Instructions), and data and calculations that demonstrate that continued ECM/WCM performance achieves the guaranteed annual energy, water, and related cost savings as required by the TO."

Recommended Instructions referenced in the recommended contract language:

eProject Builder System Instructions

Section 1 Introduction

eProject Builder (ePB) is a secure online data collection system for ESPC projects. It is offered through a web-based tool managed on behalf of the U.S. Department of Energy by the University of California / Lawrence Berkeley National Laboratory (LBNL). This system is subject to the protections, requirements, limitations, and exemptions of 10 C.F.R. § 1004.3(e)(2) and the Freedom of Information Act, 5 U.S.C. § 552. The ePB system includes ESPC project data for State, local, and federal agencies. It provides a standardized format for collecting and reporting ESPC project data. ePB enables Energy Service Companies (ESCOs) and their contracting agencies or other entities to:

- **A.** Upload and track project-level information;
- **B.** Generate basic project reporting materials (e.g. task order schedules) that may be mandated by local, state, and/or federal agency requirements; and
- **C.** Benchmark proposed Energy Savings Performance Contract (ESPC) projects against aggregate statistics from a database of historical project data.

Authorized users of ePB include local, state, and federal government agencies, private companies and their authorized staff, as well as other organizations authorized by these government agencies and/or private companies and their authorized staff. ePB users deliver and/or access project-level information only for those projects for which they are authorized. Project-level information delivered and/or accessed by ePB users is described on the eProject Builder website, and amended from time to time.

Section 2 General Process for Entering Project Information to ePB

Customers (i.e., ordering agencies) will initiate a project through the ePB system and invite an individual ESCO contact to "build" the project. After being invited to use the system and registering, the "project builder" (i.e., the ESCO) will be able to enter project information. After the project information has been entered, the ESCO will have the ability to generate draft schedules and submit the project information for customer (i.e., "project initiator") approval. Customer approval commits the project to the ePB system database and "project viewers", outside parties invited by the ESCO or customer agency or other authorized users, will have the ability to view, but not edit, the project information. Customer agencies have the ability to unlock a project for modification and re-submittal by the ESCO. The entering of project data and customer approval is similar for project financial and energy savings data that defines the project upon award, and subsequently during the post-installation and annual measurement and verification.

Section 3 Requirements for Contractor

All required project-level information is described on the ePB website. The contractor will collect and report project-level information to the ePB system at the following times for projects under the DOE ESPC IDIQ contract:

- **A.** Draft schedules shall be incorporated into the Preliminary Assessment (PA) for submittal. Inclusion of the cancelation ceiling schedule is optional, or as specified by the ordering agency in Task Order Request for Proposal.
- **B.** Complete draft schedules for the Draft Investment Grade Audit/Proposal shall be incorporated, when requested by the ordering agency.
- C. Complete schedules for the Final IGA/Proposal, once final negotiations are complete, shall be generated and incorporated into the Final IGA/Proposal, as referenced in Attachment J-4. These schedules will match what will be incorporated into the Task Order. The contractor shall submit the project for approval through ePB so the ordering agency can review and approve the schedules before Task Order Award to ensure there is agreement with the Final IGA/Proposal.
- **D.** Post-Installation M&V data shall be entered into ePB for the performance year of zero (0). The post-installation M&V schedule report within ePB shall be generated and incorporated into the Post-Installation Report, as referenced in Attachment J-4. Upon finalizing the post-installation report, the contractor shall submit the post-installation M&V data for approval through ePB so the ordering agency can review and approve the data.
- **E.** Annual M&V data shall be entered annually into ePB for the performance year of one (1) through the end of the Task Order. The annual M&V schedule report within ePB shall be generated and incorporated into the Annual M&V Report on ECM Performance, as referenced in Attachment J-4.

Upon finalizing the post-installation report, the contractor shall submit the post-installation M&V data for approval through ePB so the ordering agency can review and approve the data.

F. Complete ePB schedules for a contract modification (if applicable)

Section 4 ePB Support, Training Videos, and Documentation

Please visit the ePB Help site for complete instructions, documentation, and training videos on how to upload project information and use the ePB system.

Appendix C: eProject Builder Templates

Calculating Version of the Template³

ESPC Projects

		BA	SUMMARY SC SIC PROJECT IN			
greement Type	Project Agreement Type (choose from lst)*	Guaranteed Savings				
	Role	Institution	Name	Title	Email	Phone
	Project Facilitator					
	Customer (Project Initiator)					
ject Contact nformation	ESCO (Project Builder)					
	Finance Specialist					
	Primary Financier					
		entification			Project List of Sites in Project (separated	Characteristics
	Task/Purchase Order #				by commas)	
	Contract # Project Name				Number of Buildings in Project List of Buildings in Project	
Project	Primary Project Location-City				(separated by commas) Market Segment	
entification &	Primary Project Location-State				Total Floor Area Affected by	
haracteristics					project (Square Feet) Average Annual Energy	
	Primary Project Location-Zipcode				Consumption of Affected Buildings (MMBtu/yr)	
	Agency Name*				Implementation Period (months)*	
	Sub Agency Name/Region Project ID #					
	Trojeci is ii					
	Financin	g Terms	1		Projec	t Capitalization
	Applicable Financial Index				Total Implementation Price (from Schedule-2a Total)	\$0
	Performance Period (years)				PLUS Financing Procurement Price-capitalized construction	
					period interest (\$)* PLUS Financing Procurement	
	Index Rate*				Price-other expenses (\$)*	
	Added Premium (adjusted for tax incentives)*				LESS Implementation Period Payments (from Schedule-1, (c))	\$0
Costs &	Project Interest Rate (sum of two above inputs)	0.00%			Total Amount Financed (principal)	\$0
Financials	Financing Issue Date (mm/dd/yyyy)				Bonded Amount	
	Project Award Date				Start date of Performance Period	1
	(mm/dd/yyyy)* Effective Through (mm/dd/yyyy)				(mm/dd/yyyy)	
	Primary Type of Financing				Project F	inancial Summary
	(choose from list) Secondary Type of Financing				Annual Estimated Energy Savings	T
	(choose from list)			,	(MMBtu)	
	Payment Timing*				Annual Estimated Water Savings (kGal)	
	Guarantee % of Estimated		1		Total Estimated Cost Savings	
	Savings*				Total Guaranteed Cost Savings Total Payments	
Other	Federal Contract Type Primary Electric Utility				Total Payments	
Information	Primary Natural Gas Utility				Templat	e Errors/Warnings
	Primary Water Utility					
			,			
ORTANT INFOR	MATION:					
These schedules sh	ould not be altered or changed in any way ex				schedules, terminology, etc.	
	tractor shall complete the installation of all pr ontractor shall propose "Bonded Amount" rep			ontract.		
			ate will be based on market co	nditions at the time of award.	The rate will be locked at time of award and	will be fixed through the performance period.
Suaranteed% of E	stimated Savings is share of project estimate S:	d savings that ESCO is guaranteeing.				
3.0.2 1.012						
.15.c						
102020						

 $^{^3}$ https://eprojectbuilder.lbl.gov/download/templates/ePB_Calculating_Data_Template_3.0.15.xlsx



ANNUAL DOLLAR SAVINGS ESCALATION RATES



Performance Period (year)	Electric Energy	Electric Demand	Natural Gas	Other Savings Type 2: Other	O&M	Other Non- Energy Savings
mplementation start through first yea	ar					
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						

IMPORTANT INFORMATION:

(1) "Implementation start through first year" reflects cumulative escalation occurring during the length of the implementation period through the first year of savings. This may represent an annual escalation figure that is compounded or another formulation (e.g., actual forecasts from utility companies).

(2) All estimated cost savings numbers reported in Schedule 4 ("First year estimated cost savings by ECM") are assumed to have already incorporated the "Implementation start through first year" escalation rates reported above.

(3) Please select other savings types from dropdown menu provided above, if applicable.

3.0.15.c				
07102020				



SCHEDULE #1 COST SAVINGS AND PAYMENTS



	(a)	(b)	(c)	
mplementation Period (Year 0)	Estimated Cost Savings*	Guaranteed Cost Savings*	Payments*	
(1000 0)				
Performance Period	(d)	(e)	(f)	(g)
(Year)	Estimated Annual Cost Savings	Guaranteed Annual Cost Savings	Annual Payments	Annual Dollar Savings Retained by Customer
1	\$0	\$0	\$0	\$0
2	\$0	\$ 0	\$0	\$0
3	\$0	\$ O	\$0	\$0
4	\$0	\$0	\$0	\$0
5	\$0	\$ O	\$0	\$0
6	\$0	\$0	\$0	\$0
7	\$0	\$O	\$0	\$0
8	\$0	\$ O	\$0	\$0
9	\$0	\$ O	\$0	\$0
10	\$0	\$0	\$0	\$0
11	\$0	\$0	\$0	\$0
12	\$0	\$O	\$0	\$0
13	\$0	\$0	\$0	\$0
14	\$0	\$0	\$0	\$0
15	\$0	\$0	\$0	\$0
16	\$0	\$O	\$0	\$0
17	\$0	\$O	\$0	\$0
18	\$0	\$0	\$0	\$0
19	\$0	\$0	\$0	\$0
20	\$0	\$0	\$0	\$0
21	\$0	\$O	\$0	\$0
22	\$0	\$0	\$0	\$0
23	\$0	\$O	\$0	\$0
24	\$0	\$0	\$0	\$0
25	\$0	\$0	\$0	\$0
Total Performance Period:	\$0	\$0	\$0	\$0
Total Implementatio	n & Performance Period	Total Guaranteed Cost Savings (b+e)	Total Payments (c+f)	
•		\$0	\$0	

IMPORTANT INFORMATION:

- (1) Implementation period savings (both estimated and guaranteed) can represent two things: a) construction period savings (where savings from some ECMs start accruing before construction is complete on the greater project), and b) customer buydown amounts. Customer buydowns are counted as savings because they constitute offsets to capital expenses in the project. Implementation period savings should not include up-front project incentives (e.g., equipment rebates) because those are entered in Schedule 2a.
- (2) The guaranteed annual cost savings are pursuant to the description in the M&V plan proposed for the project.
- (3) The total of annual payments represents the contract price and should be supported by information submitted.
- (4) If applicable, prior to the performance period, implementation period energy savings and payments are one-time amounts only.
- (5) If applicable, the guaranteed cost savings during the implementation and performance periods must exceed the payments.
- (6) Escalation rates (see Annual Escalation Rates) apply to the estimated annual cost savings in column (d).

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	SCHEDULE #2a IMPLEMENTATION PRICE BY ENERGY CONSERVATION MEASURE										
			OL DI LI	INOT C	JAGERTY	III O I I III E I I	UN.				
							(a)	(b)	(c)	(d)	
ECM - Technology Category*	ECM No.	ECM Description – Title*	ECM Size	ECM Coverage (%)	Location	M&V Expense (\$)	Cost of Goods and Services (Base Construction)*	Project Implementation Delivery Charge*	Applied Incentives	Implementation Price PDP + [a+b] - c	
Project Development Price (PDP)-Technical Energy Audit and Project Proposal											
	TOTALS:					\$0	\$0	\$0	\$0	\$0	
IMPORTANT INFORMATION:											
(1) This schedule is not to be altered o	r changed in any way.										
(2) Cost of Goods and Services (Base Costs as well as profit. For IDIQ ESPC pro	Construction) shall include only direct co pjects, Cost of Goods and Services and	osts for each ECM and no post-accep Project Implementation Delivery Char	tance perform ges are itemize	ance period e d in Schedule	expenses. Pro 2b.	ject Implementatio	on Delivery Charges are a	dded to each of the EC	vis and includ	e direct and indirect	
	supporting information detailing total in										
transformers in kVA, generators in kW.	er ECM Size the total installed capacity For lighting ECMs, specify baseline kW	treated.			its in tons (e.g	g., for a chiller - 250	tons), VFDs in hp, boilers	and furnaces in input Btu	ı/hr, BAS/EMC	S in number of points,	
	percentage share of the total project f										
ADDITIONAL NOTES:	n ECM equals the sum of items b and i	on Schedule-2b. These expenses are	already include	ed in the Base	Construction	Cost and Project	Implementation Delivery (Indrae.			
3.0.15.c 07102020											

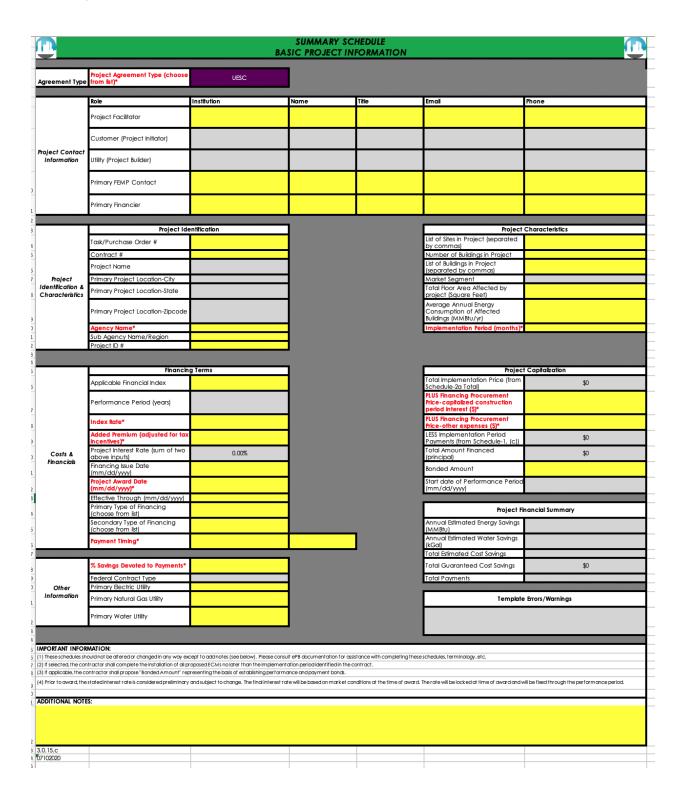
			SCHEDULE #2b Project Implementation Pricin	a Worksheet			()
		Cost Item	Description	Percent of Cost of Goods and Services (Base Construction)	Price/Cost	Errors/Warnings	Schedule 2a Co
	а	Subcontractor Costs (Contractor Costs To ESCO) exclusive of M&V equipment	A fixed-price bid received in response to a Request for Proposals issued by an ESCO for a specific scape of work, exclusive of the cost to install M.A.V. equipment.				
	b	M&V Equipment Installed During Construction	The cost of equipment installed during construction which is integral to performance of M&V activities in the performance period.				
	С	Self-Performed Work	A fixed price cost for a specific scope of work performed by an ESCO.				
	d	Other Direct Purchases Of Equipment, Material, Supplies (Supplier Costs To ESCO) exclusive of M&V equipment	in some cases the ESCO may purchase equipment directly to be installed under scopes of work as described in items (a) and (c) above. This amount (a) represents the purchase prio of all such equipment.				
+d)	е	Cost of G	oods and Services (Base Construction)		\$0		\$0
	f	Design	Design costs include all professional architecture and engineering costs required to design and specify projects to be installed as part of the work, appropriately burdended for overhead and profit as determined by the ESCO.		\$0		
	g	Project Management	The cost of administering and managing the project, appropriately burdened for overhead and profit as determined by the ESCO.		\$0		
	h	Performance and Payment Bonds	All ESCOs are required to bond the performance and payment of all work by a reputable surely approved for such work. The cost of the performance and payment bondshall be included in this category for the anticipated amount of work to be completed.		\$0		
	i	Commissioning and Training	At the completion of construction, equipment is commissioned. This work is narmally completed by commissioning agents. If this scape is completed by ESCO employees, it includes the the appropriately burdened cost (profit is overhead) as determined by the ESCO. If this scape is outsourced to a commissioning from, this cost includes the turnikey cost to provide necessary commissioning services. Training costs may be provided by subcontractors and as such will be included in their subcontractor bid. However, if the ESCO plans to provide training the burdened labor cost for such training state included in this line term. In addition to labor, this line term may include formal class com training rotingly videos, online fraining prof crists, and other training efforts that include labor and materials required to provide necessary training. This line term come to be a repeat of training straining arounds and evil by subcontractors is subcontractor costs. It raining labor may be utilized to supervise and coordinate subcontractor training sessions.		\$0		
	j	Measurement and Verification	At the completion of construction, the ESCO completes the M&V of installed equipment to verify post-retroil energy and water efficiency, operation, and pages as Post-installation. MAY report. This effort is necessary to resure systems will meet the guaranteed energy sovings and start the M&V Services phase. If completed by ESCO staff, this cost shall be appropriately turdened (overhead and profit) as determined by the ESCO. If completed to an external M&V firm, this cost includes the turnkey cost to provide necessary M&V services.		\$0		
	k	Overhead Percent	The indirect costs or fixed expenses of operating the ESCO's business, applied to the Cost of Goods and Service.		\$0		
	1	Profit Percent	The anticipated, but not guaranteed, gross profit associated with the project, applied to the Cost of Goods and Service.		\$0		
o I)	m	Implem	entation Delivery Percentage/Charge		\$ 0		\$0
	n	·	te (PDP)-Technical Energy Audit and Project Proposal		\$0		\$0
	q	riojeci bevelopilielii riio	Applied Incentives		\$0		\$0
-q)	0		Total Implementation Price		\$0.00		\$0.00
NT INFORM			i the maximum delivery percentage, if applicable.				
IAL NOTES	S:						
)							

					SO PERFORMAN	CHEDULE #3 CE PERIOD C	WOJE HZA							(
	Term (year)	Implementation Period (Year 0)	1	2	3	4	5	6	7	8	9	10	25	Totals
	Principal Repayment	ranoa (roaro)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Debt	Performance Period Incentives and Other Payments													\$0
vice/Performance eriod Payments	Dollar savings retained by customer		\$1	\$1	\$1	\$1	\$1	\$1	\$1	\$1	\$1	\$1	\$1	
	Interest (\$) Total Debt Service (a)		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0 \$0
	Total Debt Service (a)		3 0	\$0	ŞU.	ŞU	\$ ∪	ŞU.	ŞU	ŞU	ΦU	ŞU.	ψU	\$U
	Management/Administration													\$0
	Operation													\$0
	Maintenance													\$0
	Repair and Replacement Measurement and			_										\$0
	Verification*													\$0
rformance Period	Other PP Expense 1: Other Other PP Expense 2: Other			-										\$0 \$0
Expenses	SUBTOTAL Before Application of Performance Period Delivery Percentage		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Performance Period Delivery Percentage (%)*													
	Performance Period Delivery Charge (\$)		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0
	TOTAL Performance Period Price (b)		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
nnual Cash Flow eformance Period)	TOTAL - ANNUAL PAYMENTS (a)+(b)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	eriod payment will be applied to rec													
	ance Period Incentives and Other Po roject facilitators (consultants) are on				extra customer payr	nents. Incentives a	nd payments are as	sumed to occur at	the same time (beg	inning or end of pe	eriod) that was id	entified in the "Su	ımmary Schedi	ıle."
ITIONAL NOTES:														
5.c														

										FIR	T YEA	R ESTIMAT	ED CO		SCHEDUL INGS BY		Y CONSI	RVATION	MEASUR	E											[
	ECM					Baseline	Energy and N	on-energy (Consumption				b1	b2	c1	c2	d1	d2	ela	e2a	elb		f = 0.003412*b1+ d1+e1a+e1b		h	ı	j	k	l= g+i+j+k	m	n =
CM Sho	ort Description	First Year M&V Option*	Baseline electricity use		Baseline natural gas use	Baseline Use: Other	Baseline Use: Other	Baseline water use	Baseline energy and resource costs	Baseline O&M		Type of other non- energy costs	Electric energy savings	energy	Electric demand savings	Electric demand savings	Natural gas savings	Natural gas savings	Other Savings Type 1: Other	Other Savings Type 1: Other	Other Savings Type 2: Other	Other Savings Type 2: Other	Total energy savings	Total energy cost savings	Water savings	Waler savings	O&M cost savings	Other non- energy cost savings		Implementation price	n Sim Payt
(PDP Ener	ect elopment Price P)-Technical rgy Audit and ect Proposal		(KWh/yr)	(kW/mo)	(MMBtu/yr)	(MMBIU/yr)	(MMBtu/yr)	(kGal/yr)	(\$/yr)	(\$/yr)	(\$/yr)		(kWh/yr)	(S/yr)	(kW/mo)	(\$/yr)	(MMBIu/yr)	(\$/yr)	(MMBtu/yr)	(\$/yr)	(MMBIU/yr)	(\$/yr)	(MMBN/yr)	(\$/yr)	(Kgal/yr)	(\$/yr)	(S/vr)	(\$/yr)	(\$/yr)	\$0	(ye
																								\$0 \$0					\$0 \$0		Г
$\overline{}$															-								-	\$0			Н		\$0		t
	TOTALS:		0	0	0	0	0	0	\$0	90	S	-	80																		

						EDULE #5 TION CEILIN	GS					(I
d of Performance Period	1	2	3	4	5	6	7	8	9	10	11	12
(Year)												
Project Acceptance												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13 14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
RTANT INFORMATION:												
s schedule should only be												
incellation ceilings for each syment charges. Actual to				termination liability	for that time perior	d, and include the	remaining unamo	rtized principal of	the total amount t	nanced for each	time period specific	ed above plus
d of the year annual canc				lumn NJ.								
the event of TO cancellation	on, specify the c	ancellation ceiling	as a percentage o	f remaining princi	ipal balance in "Add	ditional Notes" belov	v.					
TIONAL NOTES:												

UESC Projects



Performance Period (year)	Electric Energy	Electric Demand	Natural Gas	Other Savings Type 1: Other	Other Savings Type 2: Other	Water	O&M	Other Non Energy Savir
lementation start through first yea	r							
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
PORTANT INFORMATION:								

- [2] All estimated cost savings numbers reported in Schedule 4 ("First year estimated cost so "Implementation start through first year" escalation rates reported above.
 [3] Please select other savings types from dropdown menu provided above, if applicable.
 ADDITIONAL NOTES:

					1
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SCHEDULE #1(u)- UESC COST SAVINGS AND PAYMENTS



	(a)	(c)	
mplementation Period (Year 0)	Estimated Cost Savings*	Payments*	
Performance Period	(d)	(f)	(g) Annual Dollar Savings Retained
(Year)	Estimated Annual Cost Savings	Annual Payments	by Customer
1	\$0	\$0	\$0
2	\$0	\$0	\$0
3	\$0	\$0	\$0
4	\$0	\$0	\$0
5	\$0	\$0	\$0
6	\$0	\$0	\$0
7	\$0	\$0	\$0
8	\$0	\$0	\$0
9	\$0	\$0	\$0
10	\$0	\$0	\$0
11	\$0	\$0	\$0
12	\$0	\$0	\$0
13	\$0	\$0	\$0
14	\$0	\$0	\$0
15	\$0	\$0	\$0
16	\$0	\$0	\$0
17	\$0	\$0	\$0
18	\$0	\$0	\$0
19	\$0	\$0	\$0
20	\$0	\$0	\$0
21	\$0	\$0	\$0
22	\$0	\$0	\$0
23	\$0	\$0	\$0
24	\$0	\$0	\$0
25	\$0	\$0	\$0
tal Performance Period:	\$0	\$0	\$0
Total Implement	tation & Performance Period	Total Payments (c+f)	
		\$0	1
		40	

IMPORTANT INFORMATION:

- (1) Implementation period savings can represent two things: a) construction period savings (where savings from some ECMs start accruing before construction is complete on the greater project), and b) customer buydown amounts. Customer buydowns are counted as savings because they constitute offsets to capital expenses in the project. Implementation period savings should not include up-front project incentives (e.g., equipment rebates) because those are entered in Schedule 2a.
- (2) The total of annual payments represents the contract price and should be supported by information submitted.
- (3) If applicable, prior to the performance period, implementation period energy savings and payments are one-time amounts only.
 (4) Escalation rates (see Annual Escalation Rates) apply to the estimated annual cost savings in column (d).

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				DULE #2a						
		IMPLEMENTATION PR	RICE BY EN	IERGY C	ONSERV A	ATION MEAS	SURE			
							(a)	(b)	(c)	(d)
ECM - Technology Category*	ECM No.	ECM Description – Title*	ECM Size	ECM Coverage (%)	Location	PA Expenses (\$)	Implementation Cost (Direct)*	Mark-up (Overhead & Profit)	Applied Incentives	Implementation Price PDP + [a+b] - c
	Pi	roject Development Price (PDP)-To	echnical Energ	gy Audit and	Project Prop	posal				
	TOTALS:					\$0	\$0	\$0	\$0	\$0
MPORTANT INFORMATION:										
This schedule is not to be altered or										
3) Contractor shall attach adequate	only direct costs for each ECM and no supporting information detailing total in	nplementation price.								
ansformers in kVA, generators in kW.	er ECM Size the total installed capacity For lighting ECMs, specify baseline kW	treated.			its in tons (e.g	g., for a chiller - 25	0 tons), VFDs in hp, boilers	and furnaces in input Btu	ı/hr, BAS/EMO	CS in number of points,
i) ECM coverage (%) represents the	percentage share of the total project f	loor area (see Summary Schedule) af	fected by the E	CM.						
ADDITIONAL NOTES:										
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						CUENIUE #2								
<u> </u>					PERFORMANI	CHEDULE #3 CE PERIOD C	ASH FLOW							Į
	Term (year)	Implementation Period (Year 0)	1	2	3	4	5	6	7	8	9	10	25	Totals
	Principal Repayment	, , , , , ,	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Debt	Performance Period Incentives and Other Payments													\$0
ervice/Performance Period Payments	Dollar savings retained by customer		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
	Interest (\$) Total Debt Service (a)		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0 \$0
	Total bebriselvice (d)		40	*	40	40	40	40	40	40	30	40	40	φ0
	Management/Administration													\$0
	Operation	1												\$0
	Maintenance													\$0
	Repair and Replacement													\$0
	Performance Assurance													\$0
Performance Period	Other PP Expense 1: Other Other PP Expense 2: Other													\$0 \$0
Expenses		1												\$0
	SUBTOTAL Before Application of Mark-up		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Mark-up (Overhead & Profit %)													
	Mark-up (Overhead & Profil- \$)		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0
	TOTAL Performance Period Price (b)		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Annual Cash Flow	TOTAL - ANNUAL PAYMENTS (a)+(b)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Performance Period)	1-7-1-7													
Performance Period)														
PORTANT INFORMATI	ON: eriod payment will be applied to rec													
PORTANT INFORMATI Any implementation Po Examples of "Performa	ON:	ayments" include: RECs	proceeds, demand respons		extra customer payr	ments. Incentives a	nd payments are as	sumed to occur at	the same time (beg	jinning or end of pe	eriod) that was id	entified in the "Su	mmary Schedu	le."

														FIR	ST YE	AR ESTIMA	TED CC		SCHEDU VINGS B		Y CONSI	RVATION	MEASUR	E											<u>(</u>
	BCM								Boseline	Energy and	Non-energ	y Consun	nption				b1	b2	€1	c2	d1	ď2	ela	eão	elb	e2b	f = 0.003412*t d1+e1o+e		,	-	,	k	I = g+i+j+i		n = m/l
ECM Number	Short Description		rformance essurance option(s)	Basel electr us	city e	electricity demand	Baseline natural ga use	use	sseline c: Other	Baseline Us Other	water us	e and	ine energy resource costs	Baseline O&M costs	Baseline other non- energy costs	Type of other non- energy cost	energy	tlectric energy sovings	demand s savings	Bectric demand savings	Natural gas sovings	Natural gas savings	Other Savings Type 1: Other	Other Savings Type 1: Other	Other Savings Type 2 Other	Other Sovings Type 2: Other	Total ener		Water savings	Water	OLM cost savings	cost savings	cost savings	Implementation price	Simple Paybaci (years)
	Project Development Pr (PDP)-Technical Energy Audit an Project Proposal	d		(konto	V) 1	kW/mo)	(MMBiu/y	r) [(MA	MShu/yr)	(MMBIU/yr	(KGa)y		(\$/90)	(3/34)	(3/9)		(OWN/yr	(3/9)	(km/mo)	(3/04)	(MMBIU/yr)	(3/94)	(MARELU/yr)	(3/90)	(MMBIU/yr	GOV	(MMSHu/)	0 (200)	(Kga(y)	(5/34)	(S/yr)	(3/91)	(\$(9)	\$0	(years)
		=		$\overline{}$	_			\blacksquare	=		$\overline{}$	=			$\overline{}$			$\overline{}$	=									- 50			覀		50		
		_		+	-		_	+	_	_	+	+		_	-	-	-	+	-	-	-		-	_	_	_	_	- 30	-	-	+	-	30	-	+
	TOTALS:			0		0	0		0	0	0		50	50	50		50	50	0	50	0	50	0	50	0	50	0	50	0	50	50	50	50	50	
At least on user should All estimate	IT INFORMATION inversion factors for M e of the savings fields is senter an average mo adcost savings numbs stance services as inci-	militur no is requirer onthly kno ens report	dto comput reduction f redin this sch	ethe contra gure. Dema redule are a	of herm. ndsovings sumedito	s can (and u	sually doj var dy incorporat	y by seas	son and in th	neir conversion filon shart three	rate to dollar si gh first year' e	ovings. scalation rat	tes reported in t	heAmustic	adiation flat	ns schedules.			Shul; 1 shart for	of Cool (2,000)	oounds)+19.548 M	MBPu; 1 gdief Prop	раче-0.0†13331	www.											
3.0.15.c	AL NOTES:																																		

Non-Calculating Version of the Template⁴

ESPC Projects

				ARY SCH		ON						
		BASI	C FKO3	JECTINFO	JKMAII	ON						
Agreement Type	Project Agreement Type (choose from list)	Guaranteed Savings										
	Role	institution	Name		Title		Email			Phone		
1	Project Facilitator	III Jillo II Si								1110110		
	Customer (Project Initiator)											
Project Contact Information	ESCO (Project Builder)											
-	Finance Specialist				\top							
	Primary Financier		T		+							
		entification	-				List of Site	es in Project (se		oject Characterist	cs	
-	Task/Purchase Order # Contract #		-				commas					
	Project Name						List of Buil	lidings in Projec if more than on	t (separated	by		
Project Identification &	Primary Project Location-City		_				Market S		,			
Characteristics	Primary Project Location-State							r Area Affecte	ed by Project			
	Primary Project Location-Zipcode						Average	Annual Energy ted Buildings (N		on		
-	Agency Name							entation Period				
-	Sub Agency Name/Region Project ID #		-									
			_									
	Applicable Financial Index	g Terms						olementation Pr		olect Capitalizatio	n \$0	
	Performance Period (years)						PLUS Finan capit alize	ncing Procurer ed construction	ment Price- n period intere	est		
	IndexRate						other exc	ncing Procurer penses (\$)				
	Added Premium (adjusted for tax incentives)							ementation Pe hedule-1.(c))	riod Paymen	ts	\$0	
Costs & Financials	Project Interest Rate (sum of two above inputs)	0.00%	_					ount Financed	(principal)		\$0	
-	Financina issue Date (mm/dd/vvvv)		-				Bonded A Start date	Amount e of Performan	nce Period			
-	Project Award Date (mm/dd/yyyy) Effective Through (mm/dd/yyyy)		-				(mm/dd/	/vvvvl				
	Primary Type of Financing (choose from list)								Proje	ct financial Sumi	mary	
	Secondary Type of Financing (choose from list)						Annual E	stimated Energ	gy Savings			
	Payment Timing						Annual E	stimated Wate	er Savings (kG	Gal)		
	Guarantee % of Estimated Savings		-					mated Cost Sa aranteed Cost S				
-	Federal Contract Type Primary Electric Utility		7				Total Pay	ments				
Other Information	Primary Natural Gas Utility								Tem	plate Errors/Warr	Ings	
	Primary Water Utility											
(1) These schedules should no	DN: t be altered or changed in any way except t	o add notes (see below). Please consult	ePB docum	nentation for	nssistance wi	th completing	these schedule	s. terminology	.etc.			
(2) If selected, the contractor	shall complete the installation of all propos	ed ECMs no later than the implement at	tion periodic	dentified in th				-,,-,,,	,			
	or shall propose Bonded Amount represent											
	interest rate is considered preliminary and s ed Savinas" is share of arolect estimated savi		e will be base	ea on market	conditions at	rne time of av	ward.The rate wi	m be locked at	time of awar	a and will be fixed	through the perf	ormance period.
ADDITIONAL NOTES:												
0710020 3.0.15.n												

 $^{^4\} https://eprojectbuilder.lbl.gov/download/templates/ePB_Non_Calculating_Data_Template_3.0.15.xlsx$



ANNUAL DOLLAR SAVINGS ESCALATION RATES



Performance Period (year)	Electric Energy	Electric Demand	Natural Gas	Other Savings Type 1: Other	Other Savings Type 2: Other	Water	O&M	Other Non- Energy Savings
mplementation start through first year	a <mark>r</mark>							
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								

IMPORTANT INFORMATION:

(1) "Implementation start through first year" reflects cumulative escalation occurring during the length of the implementation period through the first year of savings. This may represent an annual escalation figure that is compounded or another formulation (e.g., actual forecasts from utility companies).

(2) All estimated cost savings numbers reported in Schedule 4 ("First year estimated cost savings by ECM") are assumed to have already incorporated the "Implementation start through first year" escalation rates reported above.

(3) Please select other savings types from dropdown menu provided above, if applicable.

0710020					
3.0.15.n					



SCHEDULE #1 COST SAVINGS AND PAYMENTS



	(a)	(b)	(c)	
mplementation Period (Year 0)	Estimated Cost Savings	Guaranteed Cost Savings	Payments	
(102.0)				
Performance Period	(d)	(e)	(f)	(g)
(Year)	Estimated Annual Cost Savings	Guaranteed Annual Cost Savings	Annual Payments	Annual Dollar Saving Retained by Custome
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
Total Performance Period:				
Total Implementation	n & Performance Period	Total Guaranteed Cost Savings (b+e)	Total Payments (c+f)	
		\$0	\$0	1

IMPORTANT INFORMATION:

- (1) Implementation period savings (both estimated and guaranteed) can represent two things: a) construction period savings (where savings from some ECMs start accruing before construction is complete on the greater project), and b) customer buydown amounts. Customer buydowns are counted as savings because they constitute offsets to capital expenses in the project. Implementation period savings should not include up-front project incentives (e.g., equipment rebates) because those are entered in Schedule 2a.
- (2) The guaranteed annual cost savings are pursuant to the description in the M&V plan proposed for the project.
- (3) The total of annual payments represents the contract price and should be supported by information submitted.
- (4) If applicable, prior to the performance period, implementation period energy savings and payments are one-time amounts only.
- (5) If applicable, the guaranteed cost savings during the implementation and performance periods must exceed the payments.
- (6) Escalation rates (see Annual Escalation Rates) apply to the estimated annual cost savings in column (d).

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SCHEDULE #2a IMPLEMENTATION PRICE BY ENERGY CONSERVATION MEASURE													
		IMIT LEMENTATION	NICE DI LI	ieko i ek	MOLKVA	IION MEASO	~~						
							(a)	(b)	(c)	(d)			
ECM - Technology Category	ECM No.	ECM Description – Title	ECM Size	ECM Coverage (%)	Location	M&V Expense (\$)	Cost of Goods and Services (Base Construction)	Project Implementation Delivery Charge*	Applied Incentives	Implementation Price PDP + [a+b] - c			
		Project Development Price (PDP)-To	echnical Ener	gy Audit and	Project Prop	osal							
	TOTALS:					\$0	\$0	\$ 0	\$0	\$0			
MPORTANT INFORMATION:													
APORIANI INFORMATION:													
) This schedule is not to be attered o													
	Construction) shall include only direct or ojects, Cost of Goods and Services and					oject implementa	tion Delivery Charges are	added to each of the E	:CMs and incli	ade arect and indrect			
Contractor shall attach adequate	supporting information detailing total im	plementation price.											
) For the following ECMs, enter under insformers in kVA, generators in kW.F.	r ECM Size the total installed capacity of for lighting ECMs, specify baseline kW tre	f new equipment in the units specified; aated.	chillers and pa	ckaged units i	n tons (e.g., fo	or a chiller - 250 ton	s), VFDs in hp, boilers and	furnaces in input Btu/hr, B	IAS/EMCS in nu	mber of points,			
ECM coverage (%) represents the	percentage share of the total project	floor area (see Summary Schedule) at	ffected by the	ECM.									
	n ECM equals the sum of items b and j	n Schedule-2b. These expenses are o	already include	d in the Base (Construction C	ost and Project Im	plementation Delivery Ch	narge.					
ADDITIONAL NOTES:													
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Cost Item Description Cost Item Cos			Proje	SCHEDULE #2b ct Implementation Pricing Worksheet	Percent of Cost of	
Subcontractor Costs (Contractor) a Cost in SECO in crustor of MAV Proposed used by on SECO or a specific region of work, septement in state of the Cost of the Co			Cost Item	Description	Goods and Services (Base	Price/Cost
b CAX 9 SEP-Internat National During Performance of NAV activities in the performance production of the Commission of th		а	Costs To ESCO) exclusive of M&V	Proposals issued by an ESCO for a specific scope of work, exclusive of the cost to install M&V equipment.		
Commissioning and Training SECO.		b		integral to performance of M&V activities in the performance		
Explanent, Melanica, Supples (Set 16 ECO) exclusive of MAV equipment Set 16 ECO) exclusive of MAV equipment Set 16 ECO) exclusive of MAV equipment Set 16 ECO exclusive of MAV exclus	L	С	Self-Performed Work			
Design		d	Equipment, Material, Supplies (Supplier Costs To ESCO)	be installed under scopes of work as described in items (a) and (c) above. This amount (d) represents the purchase price of all		
f Design engineering cost required to design and specify projects to be insided ap part of the work, approprietly burdended for overhead and proff as determined by the BCCO. g Project Management Performance and Poyment and proff as determined by the BCCO. Performance and Poyment and proff as determined by the BCCO and the performance and poyment and the performance and poyment of all work by a reputable surely approved for such work. The control the performance and poyment and the burden and t		е	Cost of C	Goods and Services (Base Construction)		\$0
g Project Monagement oppropriately burdened for overhead and profit as determined by the SCO. A ISCO's are required to bond the performance and payment of of work by a reputately surely approved for such work. The coil of work by a reputately surely approved for such work. The coil of the performance and payment bond shall be included in this category for the enricipeded amount of work to be the coil of the performance and payment bond shall be included in this category for the enricipeded amount of work to be the coil of the performance and payment bond shall be included in the category of the enricipeded amount of work to be the coil of the enricipeded amount of work to be enriciped and payment in commissioning opens. If this scope is completed by SCO employees, it is necessary commissioning payment in the control of the commissioning opens. If this scope is commissioning payment is commissioning payment in the following the commissioning payment is commissioning payment in the following the provided by the SCO. If this scope is outside the following the provided by the scope is outside the following the provided by the scope is outside the following the provided by the scope is outside the following the provided by the scope is outside the following the provided by the scope is outside the following the provided by the scope is outside the following the provided by the scope is outside the following the provided by the scope is outside the provided the provided by the scope is outside the provided the provided by the scope is outside the scope of positive floring the provided by the scope is outside the scope of positive floring the provided by the scope of the scope is one of the scope of positive floring the provided by the scope is outside the scope of the scope is outside the scope is		f	Design	engineering costs required to design and specify projects to be installed as part of the work, appropriately burdended for		
h Performance and Poyment and Mark by a reputable surely approved for such work. The and off the performance and poyment both shall be included in this category for the anticipated amount of work to be completed. At the completed. At the completed commissional pages. If this scope is completed by ECO commissional, this work is normally completed by ECO commissional gagets. If this scope is completed by ECO commissional gagets. If this scope is considerable by the ECO. If this scope is observed to provide necessary commissioning services. It commissioning and Training It commissioning and Training It commissioning and Training the service of the subcontractor bit. However, if the ECO plant to provide relatively commissioning services. Training costs may be provided by subcontractors and as such will be included in their subcontractor bit. However, if the ECO plant to provide relatively commissioning services. Training costs may be provided by subcontractors and as such will be included in their subcontractor bit. However, if the ECO plant to provide the purpose of the subcontractor by subcontractor is subcontractor costs. Training below may be utilized to supervise and coordinate subcontractor training sessions. At the completion of construction, the ECO complete the MA V of included equipment to verify post-rebrid energy and coordinate subcontractor training sessions. At the completion of construction, the ECO complete the purpose of Post-rebridation and coordinate subcontractor training sessions. At the completion of construction, the ECO complete the purpose of Post-rebridation and such as a proper subcontractor training sessions. It follows the subcontractor training sessions of performing the first by the ECO. If the subcontractor to provide necessary MAV services. The indirect costs of the deep repression of performing the ECO's		g	Project Management	appropriately burdened for overhead and profit as determined		
commissioned. This work is normally completed by CCO employees. It includes the the appropriately burdened cost [profil & overhead) as determined by the ESCO. If this scope is outsourced to a commissioning firm, this cost includes the further cost to provide necessary commissioning services. I mining costs may be provided by subconfractors and as such will be included in their subconfractor bid. However, if there is no provided in the subconfractor bid. However, if		h		of all work by a reputable surety approved for such work. The cost of the performance and payment bond shall be included in this category for the anticipated amount of work to be		
i Commissioning and Training will be included in their subcontractor bid. However, if the ESCO plans to provide training, the burdened blobr cost for such training shall be included in this line liter, and include common to a different include in this line liter, and include format classroom training, training videos, online training programs, and other training, training videos, online training programs, and other training, training videos, online training programs, and other training, training videos, online training provided intently by subcontractors in subcontractor costs. Training labor may be utilized to supervise and coordinate subcontractor training assistant. At the completion of construction, the ESCO completes the MAY of installed equipment to verify post-terofitile nergy and water efficiency, operation, and prepares of post-hadation MAY report. This effort is necessary to ensure systems will meet the guaranteed energy savings and start the MAY Services obase. If completed by ESCO staff, this cost shall be appropriately burdened (everhead and profit) as determined by the ESCO. If completed by an external MAY firm, this cost includes the turnivey cost to provide necessary MAY services. It is not included the cost of Goods and Service. It is not included the Cost of Goods and Service. In the naticipated, but not guaranteed, gross profit associated with the project, applied to the Cost of Goods and Service. In the project Development Rice (PDP)-Technical Energy Audit and Project Proposal Source of the properties of the project Proposal of the Cost of Coods and Service. In the project Development Rice (PDP)-Technical Energy Audit and Project Proposal Source. Source of the project project project Proposal Source. Source of the project project project Proposal Source. Tronal Implementation delivery percentage, if application.				commissioned. This work is normally completed by commissioning agents. If this scope is completed by ESCO employees, it includes the the appropriately burdened cost (profit & overhead) as determined by the ESCO. If this scope is outsourced to a commissioning firm, this cost includes the turnkey cost to provide necessary commissioning services.		
At the completion of construction, the ESCO completes the M&V of installed equipment to verify post-retrofit energy and water efficiency, operation, and prepares a Post-hatdiation M&V report. This effort is necessary to ensure systems will meet the guaranteed energy savings and start the M&V Services phase. If completed by ESCO staft, this cost shall be appropriately burdened (overhead and profit) as determined by the ESCO. If completed by an external M&V firm, this cost includes the turnkey cost to provide necessary M&V services. Rower of the cost of Coods and Service.		i	Commissioning and Training	will be included in their subcontractor bid. However, if the ESCO plans to provide training, the burdened labor cost for such training shall be included in this line item. In addition to labor, this line item may include formal classroom training, training videos, online training programs, and other training efforts that include labor and materials required to provide necessary training. This line item cannot not be a repeat of training provided directly by subcontractors in subcontractor costs. Training labor may be utilized to supervise and		
k Overhead Percent		j	Measurement and Verification	At the completion of construction, the ESCO completes the M&V of installed equipment to verify post-retrofit energy and water efficiency, operation, and prepares a Post-Installation M&V report. This effort is necessary to ensure systems will meet the guaranteed energy savings and start the M&V Services phase. If completed by ESCO staff, this cost shall be appropriately burdened (overhead and profit) as determined by the ESCO. If completed by an external M&V firm, this cost		
Profile Percent with the project, applied to the Cost of Goods and Service.	Ţ	k	Overhead Percent	The indirect costs or fixed expenses of operating the ESCO's business, applied to the Cost of Goods and Service.		
n Project Development Price (PDP)-Technical Energy Audit and Project Proposal q Applied Incentives Sum m+n-q) o Total Implementation Price \$0.00 RTANT INFORMATION: Implementation delivery percentage shall not exceed the maximum delivery percentage, if applicable.		ı	Profit Percent			
q Applied Incentives \$0 um n+n-q) o Total Implementation Price \$0.00 RTANT INFORMATION: Implementation delivery per centage shall not exceed the maximum delivery per centage, if applicable.	(f to I)	m		, , , ,		\$0
Total Implementation Price \$0.00 RTANT INFORMATION: Implementation delivery per centrage shall not exceed the maximum delivery per centrage, if applicable. PIONAL NOTES:	F		Project Development Pr			
RTANT INFORMATION: Implementation delivery percentage shall not exceed the maximum delivery percentage. If applicable. FIONAL NOTES:						
		tation deliver		delivery percentage, if applicable.		
020	TIONAL N					

					PERFORM	SCHEDULE (ANCE PERIO)	#3 D CASH FLOW	,							1
	Term (year)	Implementation Period (Year 0)	1	2	3	4	5	6	7	8	18	19	20	25	Totals
	Principal Repayment														\$0
Debt ervice/Performance	Performance Period Incentives and Other Payments														\$0
Period Payments															
	Interest (\$)														
	Total Debt Service (a)		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Management/Administration			$\overline{}$											\$0
	Operation			_											\$0
	Maintenance			_				_		_		_			\$0
	Repair and Replacement								_		_	_			\$0
	Measurement and Verification										_	_			\$0
	Other PP Expense 1: Other										_	_			\$0
	Other PP Expense 2: Other										_	_			\$0
	SUBTOTAL Before Application of Performance Period Delivery Percentage														\$0
	Performance Period Delivery														#DIV/0
	Percentage (%) Performance Period Delivery Charge														\$0
	(\$)			_											,,,
	TOTAL Performance Period Price (b)		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Annual Cash Flow															
Performance Period)	TOTAL - ANNUAL PAYMENTS (b)-(a)		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ORTANT INFORMAT	TON:														
	eriod payment will be applied to reduc	e the principal renorm	ent												
	ce Period Incentives and Other Payme			avments and extra	customer paymen	ts Incentives and n	avments are assum	ed to occur at the	same time (beginn	ing or end of period	i) that was iden	tified in the Sun	mary Schedule		
	ject facilitators (consultants) are one e						.,		, , , , , ,		,		,		
DITIONAL NOTES:															
020															
5.n															

										F	IRST YEA	R ESTIMA	ATED CO		HEDULE # IGS BY EN		ONSERVAT	ION MI	EASURE												0
	ECM					Baseline Er	nergy and Non	energy Con	sumption				ы	b2	cl	c2	ďl	d2	ela	e2a	elb		f= 0.003412* b1+d1+e 1a+e1b		h	- 1	J	k	l = g+i+j+k	m	n = m/l
ECM Number	Short Description	First Year M&V Option	Baseline electricity use	Baseline electricity demand		1: Other	Baseline Use 2: Other	Baseline water use	Baseline energy and resource costs	Baseline OLM costs	Baseline other non- energy costs	Type of other non- energy costs	Bectric energy savings	Blectric energy savings	Electric demand savings	Bectric demand savings	Natural gas	Natural gas savings	Other Savings Type 1: Other	Other Savings Type 1: Other	Other Savings Type 2: Other	Other Savings Type 2: Other	Total energy savings	Total energy cost savings	Water savings	Water sovings	O&M cost savings	Other non- energy cost savings		Implementation price	Simple Payback
		.,	(kWh/yr)	(kW/mo)	(MMBtu/ yt)	(MMBfu/yr)	(MMBfu/yr)	(kGal/yr)	(\$/yr)	(\$/yr)	(\$/yr)		(kWh/yr)	(\$/yr)	(kW/mo)	(\$/yr)	(MM8fu/yr)	(\$/yr)	(MMBN/yr)	(\$/yr)	(MMBh/ yt)	(\$/yr)	(MMBh/ YT)	(\$/yr)	(Kgal/yr)	(\$/yr)	(\$/yr)	(\$/yr)	(\$/yr)	(\$)	(years)
	Project Development Price (PDP)-Technical Energy Audit and Project Proposal																													\$0	
																								50 50					\$0 \$0		

rend (redr)							EDULE #5						
Period (Year) 1 2 3 4 5 6 7 8 9 10 11						CANCELLA	TION CEILIN	GS					
1 1 1 1 1 1 1 1 1 1		1	2	3	4	5	6	7	8	9	10	11	12
3	roject Acceptance												
3	1												
4													
5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6													
6													
7 8 8 9 10 10 11 12 13 13 14 14 15 15 16 16 19 19 19 19 20 20 20 20 21 21 22 23 23 24 24 25 29 20 20 20 20 20 20 20 20 20 20 20 20 20													
8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9													
9 10 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1													
10 11 12 13 13 14 14 19 10 16 17 18 19 19 20 20 21 21 22 23 20 21 21 22 23 24 25 25 25 25 25 26 27 28 29 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20													
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12 13 14 14 15 15 16 16 17 17 18 18 19 20 20 21 21 21 21 22 23 24 24 25 25 25 24 24 25 25 25 24 24 25 25 26 27 28 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20										_			
13 14 15 15 16 17 18 19 20 21 21 22 23 33 24 4										_			
14 15 16 16 17 17 18 18 19 20 21 21 22 21 23 24 24 25 25 25 25 25 25 26 27 28 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20						_				_			
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16 17 18 18 19 20 21 21 22 23 23 24 25 25 25 27 27 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20													
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18 19 20 21 21 22 23 23 24 24 25 DRIANT INFORMATION: s schedule should only be completed if required by the contract. ancellation ceilings for each time period specified below establish the maximum termination liability for that time period, and include the remaining unamortized principal of the total amount financed for each time period specified of the year annual cancellation ceiling costs should be shown in month 12 (column N). the event of 10 cancellation, specify the cancellation ceiling as a percentage of remaining principal balance in "Additional Notes" below.													
19 20 21 21 22 23 23 24 25 25 26 27 28 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20													
20 21 22 23 24 24 25 25 25 26 27 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20													
23 23 24 25 DRTANT INFORMATION: s schedule should only be completed if required by the contract. sneedlain or ceilings for each time period specified below establish the maximum termination liability for that time period, and include the remaining unamortized principal of the total amount financed for each time period specified of the year annual cancellation ceiling costs should be shown in month 12 (column N). The event of 10 cancellation, specify the cancellation ceiling as a percentage of remaining principal balance in "Additional Notes" below.													
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24 25 DRIANT INFORMATION: Is schedule should only be completed if required by the contract. Inscellation ceilings for each time period specified below establish the maximum termination liability for that time period, and include the remaining unamortized principal of the total amount financed for each time period specified hopes across the hopes across while the negotiarded. do the year annual cancellation ceiling costs should be shown in month 12 (column N). the event of TO cancellation, specify the cancellation ceiling as a percentage of remaining principal balance in "Additional Notes" below.	22												
2STANT INFORMATION: s schedule should only be completed if required by the contract. sneellation ceilings for each time period specified below establish the maximum termination liability for that time period, and include the remaining unamortized principal of the total amount financed for each time period specified yr prepayment horges. Actual total remination costs will be neglocified. d of the year annual cancellation ceiling costs should be shown in month 12 (column N). the event of 10 cancellation, specify the cancellation ceiling as a percentage of remaining principal balance in "Additional Notes" below.	23												
PREAT INFORMATION: s schedule should only be completed if required by the contract. sneedaling sfor each time period specified below establish the maximum termination liability for that time period, and include the remaining unamortized principal of the total amount financed for each time period specified to the type proportion changes. Actual fold termination costs will be negotiated of the period specified of the type and concellation ceiling costs should be shown in month 12 (column N). the event of 10 cancellation, specify the cancellation ceiling as a percentage of remaining principal balance in "Additional Notes" below.	24												
s schedule should only be completed if required by the contract. ancellation ceilings for each time period specified below establish the maximum termination liability for that time period, and include the remaining unamortized principal of the total amount financed for each time period specifier ty reproprient charges. Actual total reminitation costs will be negotiated. d of the year annual cancellation ceiling costs should be shown in month 12 (column N). the event of 10 cancellation, specify the cancellation ceiling as a percentage of remaining principal balance in "Additional Notes" below.	25												
ORTANT INFORMATION: is schedule should only be completed if required by the contract. concellation ceilings for each time period specified below establish the maximum termination liability for that time period, and include the remaining unamortized principal of the total amount financed for each time period specific any prepayment charges. Actual total termination costs will be negotiated. do the year amount concellation ceiling cast should be shown in month 12 (column N). the event of 10 concellation, specify the cancellation ceiling as a percentage of remaining principal balance in "Additional Notes" below.													
ancellation ceiling; for each time period specified below establish the maximum termination liability for that time period, and include the remaining unamortized principal of the total amount financed for each time period specific any prepayment charges. Actual total termination costs will be negotiated. d of the year amount concellation ceiling costs should be shown in month 12 (column N). the event of TO cancellation, specify the cancellation ceiling as a percentage of remaining principal balance in "Additional Notes" below.	RTANT INFORMATION:												
any prepayment charges. Actual total termination costs will be negotiated. d of the year annual conceillation ceilling costs should be shown in month 12 (column N). the event of TO cancellation, specify the cancellation ceilling as a percentage of remaining principal balance in "Additional Notes" below.	schedule should only be	completed if re	quired by the cont	ract.									
d of the year annual cancellation ceiling costs should be shown in month 12 (column N). the event of TO cancellation, specify the cancellation ceiling as a percentage of remaining principal balance in "Additional Notes" below.	ncellation ceilings for eac	h time periods	pecified below est	ablish the maximu	um termination lic	ability for that time	period, and inclu	de the remaining	unamortized princ	cipal of the total a	mount financed f	or each time perio	d specified ab
the event of TO concellation, specify the concellation ceiling as a percentage of remaining principal balance in "Additional Notes" below.					column NI								
						ncipal balance in "	'Additional Notes"	below.					
ITIONAL NOTES:													
	TIONAL NOTES:												

UESC Projects

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		BASI	C PROJ	IECT INFO	ORMAII	ON							
Agreement Type	Project Agreement Type (choose from	UESC											
-greenien ,pe	201-	Institution	Name		Title		Email			Phon	-		
	Role Project Facilitator	INSTITUTE	NGITE				Emid			riior	ie		
	Customer (Project Initiator)												
Project Contact Information	Utility (Project Builder)												
	Primary FEMP Contact				Т					Т			
	Primary Financier												
			7										
	Projectide Task/Purchase Order #	entification					List of Si	tes in Project	(separated b	ProjectChar y	acter istics		
	Contract #						commo	as) er of Buildinas	in Prolect				
	Project Name						List of B	ulidings in Pro	oject (separat	ed by			
Project Identification &	Primary Project Location-City		-					alf more than	n one)				
Characteristics	Primary Project Location-State						Total Ro	or Area Affe	ected by Proje	ect			
			1				(Sauare		ergy Consum	ption			
	Primary Project Location-Zipcode		4				of Affe	cted Building	s (MMBtu/yr)				
	Agency Name Sub Agency Name/Region						Intern	tentollonPer	lod (months)				
	Project ID #		_										
	Fingncin	a Terms	3							ProjectCan	altalization		
	Applicable Financial Index							plementatio le-2a Total)	n Price (from			\$0	
	Performance Period (years)						PLUS Fini capitali: (\$)	ancing Procu zed construc	rement Price tion period int	erest			
	Index Rate*						other e	xpenses (\$)	rement Price				
	Added Premium (adjusted for tax incentives)*							plementation chedule-1.(c	n Period Paym (1)	ents		\$0	
Costs & Financials	Project Interest Rate (sum of two above inputs)	0.00%	_						ced (principal)			\$0	
	Financina Issue Date (mm/dd/vvvv)							Amount ate of Perforn	mance Period				
	Project Award Date (mm/dd/yyyy) Effective Through (mm/dd/yyyy)		_				(mm/d	d/vvvv)					
	Primary Type of Financing (choose from list)								Pre	oject Financi	al Summary		
	Secondary Type of Financing (choose from list)		1				Annual (MMBt)	Estimated E	nergy Savings				
	Payment Timing								/ater Savings (kGal)			
			_					timated Cos					
	% Savinas Devoted to Payments Federal Contract Type		1					uaranteed Co ovments	ost Savinas			\$0	
Other Information	Primary Electric Utility Primary Natural Gas Utility								Te	mplate Erro	rs/Warnings		
	Primary Water Utility												
			_										
(1) These schedules should no	DN: t be altered or changed in any way except t	o add notes (see below). Please consult	ePB docum	entation for a	assistance wi	th completing	these schedul	les, terminolo	oav.etc.				
(2) If selected, the contractor	shall complete the installation of all propos	ed ECMs no later than the implementati	ion periodic	dentified in the									
	or shall propose Bonded Amount represent interest rate is considered preliminary and s				conditions at	the time of ou	uard The rate	will be look or	at time of au	uard and will	he fived throu	igh the perfor	mance period
	illia esi rare s corsaes eu preiminary anas	object to change. The final line est rate	Will be buse	dominaker	conditions d	THE HITTE OF GR	ra a.merare	WIII DO IOCKO	adi nine oi de	ra a a la wiii	DE TREGITIE OC	grinepara	marce period.
ADDITIONAL NOTES:													
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ANNUAL DOLLAR SAVINGS ESCALATION RATES



Performance Period (year)	Electric Energy	Electric Demand	Natural Gas	Other Savings Type 1: Other	Other Savings Type 2: Other	Water	O&M	Other Non- Energy Savings
mplementation start through first year	a <mark>r</mark>							
2								
3								
4								
5								
6								
7								
8								
9								
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25								

IMPORTANT INFORMATION:

(1) "Implementation start through first year" reflects cumulative escalation occurring during the length of the implementation period through the first year of savings. This may represent an annual escalation figure that is compounded or another formulation (e.g., actual forecasts from utility companies).

(2) All estimated cost savings numbers reported in Schedule 4 ("First year estimated cost savings by ECM") are assumed to have already incorporated the "Implementation start through first year" escalation rates reported above.

(3) Please select other savings types from dropdown menu provided above, if applicable.

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SCHEDULE #1 (u) - UESC **COST SAVINGS AND PAYMENTS**



	(a)	(c)	
Implementation Period (Year 0)	Estimated Cost Savings	Payments	
(Tedito)			
Performance Period	(d)	(f)	(g)
(Year)	Estimated Annual Cost Savings	Annual Payments	Annual Dollar Savings Retained by Custome
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
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18			
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23			
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25			
otal Performance Period:	\$ 0	şo	
Takel Imagilaria	ntation & Bostormannon Boriod	Total Payments (c+f)	
ioiai impiemer	ntation & Performance Period	\$0	
		ŞU	-

IMPORTANT INFORMATION:

- (1) Implementation period savings can represent two things: a) construction period savings (where savings from some ECMs start accruing before construction is complete on the greater project), and b) customer buydown amounts. Customer buydowns are counted as savings because they constitute offsets to capital expenses in the project. Implementation period savings should not include up-front project incentives (e.g., equipment rebates) because those are entered in Schedule 2a.
- (2) The total of annual payments represents the contract price and should be supported by information submitted.
- (3) If applicable, prior to the performance period, implementation period energy savings and payments are one-time amounts only.
- (4) Escalation rates (see Annual Escalation Rates) apply to the estimated annual cost savings in column (d).

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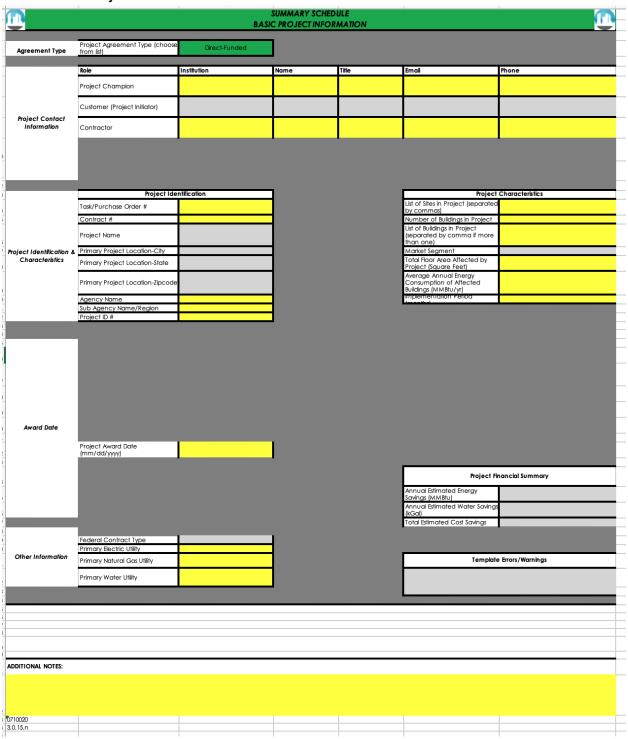
		IMPLEMENTATION PI		OULE #2a IERGY CO		TION MEASU	IRE			<u> </u>
						I		45	(-)	(4)
ECM - Technology Calegory	ECM No.	ECM Description – Title	ECM Size	ECM Coverage (%)	Location	PA Expenses (\$)	(a) Implementation Cost (Direct)	(b) Mark-up (Overhead & Profit)	(c) Applied	(d) Implementation Price PDP + [a+b] - c
		Project Development Price (PDP)-Te	echnical Ener	gy Audit and	Project Prop	osal	l			
	TOTALS:					\$0	\$0	\$0	\$0	\$0
PORTANT INFORMATION:										
This schedule is not to be altered or	changed in any way.									
Implementation Cost shall include o	only direct costs for each ECM and no	post-acceptance performance perio	od expenses. M	ark-up are ad	ded to each	of the ECMs and it	nclude direct and indirect	costs as well as profit		
For the following ECMs, enter under	upporting information detailing total im ECM Size the total installed capacity of	new equipment in the units specified;	chillers and pag	kaged units i	n tons (e.g., fo	or a chiller - 250 ton	ns), VFDs in hp, boilers and	furnaces in input Btu/hr, B.	AS/EMCS in nu	mber of points,
	or lighting ECMs, specify baseline kW tre percentage share of the total project t		ffected by the	-CM						
DDITIONAL NOTES:										
SSITIONAL NOIES.										
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					PERFORM	SCHEDULE (ANCE PERIO)	#3 D CASH FLOW	,							1
	Term (year)	Implementation Period (Year 0)	1	2	3	4	5	6	7	8	18	19	20	25	Totals
	Principal Repayment														\$0
	Performance Period Incentives and Other Payments														\$0
Period Payments															
	Interest (\$) Total Debt Service (a)		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Management/Administration														\$0
	Operation														\$0
	Maintenance														\$0
	Repair and Replacement Performance Assurance			_								_			\$0 \$0
	Other PP Expense 1: Other														\$0 \$0
erformance Period	Other PP Expense 2: Other														\$0
Expenses	SUBTOTAL Before Application of Mark-up														\$0
	Mark-up (Overhead & Profit %)														
	Mark-up (Overhead & Profit-\$)														\$0
1	TOTAL Performance Period Price (b)		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Annual Cash Flow erformance Period)	TOTAL - ANNUAL PAYMENTS (b)-(a)		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	50	\$0	\$0	\$0
PORTANT INFORMATION	ON:														
	riod payment will be applied to reduc			yments, and extra	customer paymen	ts.Incentives and p	ayments are assum	ed to occur at the s	same time (beginn	ing or end of period	d) that was iden	tified in the Sur	mmary Schedule	3.	
Any Implementation Per Examples of Performance	ce Period Incentives and Other Payme ect facilitators (consultants) are one e														

										,	IRST YEA	R ESTIMA	ATED CC		HEDULE # GS BY EN		ONSERVAT	ION MI	EASURE												
	ECM					Baseline Er	ergy and Non-	energy Con					ы	b2	c1	c2	dl	d2	ela	e2a	elb	e2b		g = b2+c2+d2 +e2o+e2 b	h	1	J	k	l = g+i+j+k	m	n = m/l
ECM Number		Performan ce Assuranc e		Baseline electricity demand	natural	1: Other	Baseline Use 2: Other	Baseline water use	Baseline energy and resource costs	Baseline O&M costs	Baseline other non- energy costs	Type of other non- energy costs	Electric energy savings	Bectric energy savings	Bectric demand savings	Bectric demand savings	Natural gas savings	Natural gas sovings	Other Sovings Type 1: Other	Other Savings Type 1: Other	Other Savings Type 2: Other	Other Savings Type 2: Other	Total energy savings	Total energy cost savings	Water savings	Water savings	O&M cost savings	Other non- energy cost sovings		Implementation price	Simple Payback
		Option(s)	(kWh/yr)	(kW/mo)	(MM8tu/ yr)	(MM8tu/yr)	(MMBtu/yr)	(kGal/yr)	(\$/yr)	(\$/yr)	(\$/yr)		(kWh/yr)	(\$/yr)	(kW/mo)	(\$/yr)	(MM8tu/yr)	(\$/yr)	(MM8tu/yr)	(\$/yr)	(MM8tu/ yr)	(S/yr)	(MMBhu/ yr)	(\$/yr)	(Kgal/yr)	(S/yr)	(\$/yr)	(\$/yr)	(S/yr)	(\$)	(years)
	Project Development Price (PDP)-Technical Energy Audit and Project Proposal																													\$0	
																								\$0					\$0		
																								50					50		

					SCH	EDULE #5						
r II						TION CEILIN	GS					
End of Performance Period (Year)	1	2	3	4	5	6	7	8	9	10	11	12
Project Acceptance												
1												
2												
3												
4												
5												
6 7												
						_						
9												
10												
11												
12												
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17												
18												
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20												
21												
22												
23												
24												
25												
MPORTANT INFORMATION												
) This schedule should only be												
 Cancellation ceilings for education and prepayment charges. 	ach time period sp	pecified below est	ablish the maximi	um termination lic	bility for that time	period, and inclu	de the remaining	unamortized princ	ipal of the total a	mount financed f	or each time perio	d specified above
B) End of the year annual can				column N).								
I) In the event of TO cancella	tion, specify the	cancellation ceilin	ng as a percentage	of remaining prin	cipal balance in "	'Additional Notes'	below.					
DDITIONAL NOTES:												
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Direct Funded Projects



			IMPLE	MENTATION P		DULE #20 IERGY C		ATION MEA	SURE				
			T						(a)	(b)	(c)	(d)	
ECM - Technol	ogy Category	ECM No.	ECMI	Description – Title	ECM Size	ECM Coverage (%)	Location	M&V Expense (\$)	Implementation Cost (Direct)	Mark-up (Overhead & Profit)	Applied Incentives	Implementation PDP + [a+b]	Price c
			- 1		<u> </u>		l	l	I				
			_										_
3													
1													
3			_										
9		то	TALS:					\$0	\$0	\$0	\$0	\$0	
IMPORTANT INFO	PRMATION:												
(1) For the following points, transformer	ng ECMs, enter under s in kVA, generators	r ECM Size the total installed of in kW.For lighting ECMs, spec	capacity of new ed	quipment in the units spated.	ecified;chillers	and packag	ed units in tor	ns (e.g., for a chil	ler - 250 tons), VFDs in hp.	, boilers and furnaces in	input Btu/hr, E	AS/EMCS in numb	erof
		only direct costs for each EC percentage share of the tot					p are added	d to each of the E	ECMs and include direct	and indirect costs as w	ell as profit		
6													
ADDITIONAL NO	TES:												
9 0 0710020 1 3.0.15.n													
			!		-		!	!					
		- Indonesia -			FORMANCE		$\overline{}$						0
	Term (year)	Implementation Period (Year 0)	1	2	3	•	5	6	7 8	18 19	20	25 Tota	is
Payments	Incentives and Other Pa	yments				_	_					\$0	
	Management/Administra Operation	ation				_	_				$\overline{}$	\$0	
	Maintenance Repair and Replacemen Measurement and Verific	t cation										\$0 \$0 \$0)
Performance Period Expenses	Other PP Expense 1: Other PP Expense 2: Other	er				_	_					\$0 \$0	
	TOTAL Performance Perio	od Price (b)	\$0	\$0	50 P 5		\$0	\$0	\$0 \$0	\$0 \$0	\$0	\$0 \$0	
Annual Cash Flow	ANNUAL CASH FLOW		\$0	Ş0 :	50 5		\$0	\$0	so so	so so	\$0	\$0 \$0	
(Performance Period)	TION:												
(1) Examples of Incentives (2) Future payments to pro	s and Other Payments inclu	ude: RECs proceeds, demand respons nts) are one example of uses for dolla	se payments, and extra co ar savings retained by the o	ustomer payments. customer.									
ADDITIONAL NOTES:													
0710020													

										,	IRST YEA	AR ESTIMA	ATED CO		HEDULE # IGS BY EN		ONSERVAT	пои мі	EASURE												
	ECM					Baseline I	inergy and Nor	-energy Con	sumplion				b1	b2	cl	c2	d1	d2	ela	e2a	elb	e2b	f= 0.003412* b1+d1+e la+e1b	g = b2+c2+d2 +e2a+e2 b	h	1	j	k	l = g+i+j+k	m	n = m/l
ECM Number	Short Description	M&V Option	Baseline electricity use	Baseline electricity demand	natural gas use	1: Other	Baseline Use 2: Other	water use	Baseline energy and resource costs	O&M costs	energy costs	Type of other non- energy costs	energy savings	energy savings	Electric demand savings	Electric demand savings	Natural gas savings	gas savings	Type 1: Other	Type 1: Other	Other Savings Type 2: Other	Other Savings Type 2: Other	Total energy savings	Total energy cost savings	Water savings	Water savings	O&M cost savings	energy cost savings	Estimated annual cost savings	Implementation price	Simple Payback
			(kWh/yr)	(kW/mo)	yr)	(MMBtu/yr)	(MM8hu/yr)	(kGal/yr)	(\$/yr)	(\$/yr)	(\$/yr)		(kWh/yr)	(S/yr)	(kW/mo)	(\$/yr)	(MMBhu/yr)	(\$/yr)	(MMBtu/yr	(\$/yr)	yr)	(\$/yr)	yr)	(\$/yr)	(Kgal/yr)	(\$/yr)	(\$/yr)	(\$/yr)	(S/yr)	(5)	(years)
																								\$0 \$0 \$0					\$0 \$0 \$0		
	TOTALS:		0	0	0	0	0	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) Energy co	IT INFORMATION: convenion factors for N Id enter an average n											= 0.13859 MI	M8tu; 1 gal	of Gasoline =	0.12048 MMB+	u; 1 gal of Die	esel = 0.13738 N	MMBtul; 1 sl	hart tan of C	od (2,000 p	ounds)=19.	548 MMBtu:	; 1 gal of P	ropane=0.0	91333 MMBtu						
ADDITION	AL NOTES:																														
0710020 3.0.15.n																															

M&V Template

ESPC Projects

		ANNUAL PERFOR BASIC PROJE	MANCE PERIOD		
	Role:	Institution:	Name:	Email:	Phone:
Project Contact	ESCO M&V Specialist				
Information	Other M&V Contact				
	Third Party Verifier				
	Project Id	lentification			
	Project ID#				
	ePB ID#				
	Project Name				
	Key	Dates			
Drain at	Performance Year				
Project Identification &	M&V Report Date*				
Key Dates	Project Acceptance Date				
	M&V Report Reviewed Date				
	M&V Report Approval Date				
	M&V Annual Report Due Date				
1	Third Party Verification Report Date				
IMPORTANT INFO	RMATION:				
	#," and "Project Name" informati	ion must be gathered from th	he ePB proposal informa	ation.	
ADDITIONAL NOT	ES:				
Version 3.1.1					
epbamv09282020					

				А	NNUAL V	ERIFIED				NCE PERI BY ENERG		ERVATIO	N MEASUI	RE					
	ECM								Detail	s of Verified ((Expected) Er	nergy and C	ost Savings						
			b1n	b2n	c1n	c2n	d1n	d2n	elan	e2an	e1bn	e2bn	fn = 0.003413*b1 n+d1n+e1a	gn = b2n+c2n+d 2n+e2an+e		in	jn	kn	ln = gn+in+jn+kr
ECM Number	Short Description	First Year M&V Option	Electric energy savings (kWh/yr)	Electric energy savings (\$/yr)	Electric demand savings (kW/mo)	Electric demand savings (\$/yr)	Natural gas savings (MMBtu/ yr)	Natural gas savings (\$/yr)	Other Savings Type 1: Other (MMBtu/yr)	Other Savings Type 1: Other (\$/yr)	Other Savings Type 2: Other (MMBtu/yr)	Other Savings Type 2: Other (\$/yr)	Total energy savings (MMBtu/yr)	Total energy cost savings (\$/yr)	Water savings (Kgal/yr)	Water savings (\$/yr)	O&M cost savings (\$/yr)	Other non- energy cost savings (\$/yr)	Verified annual cos savings (\$/yi
														\$0					\$0
													-	\$0					\$0
													-	\$0					\$0
													-	\$0					\$0
T	OTALS:			\$0		\$0		\$0		\$0		\$0		\$0		\$0	\$0	\$0	\$0
MPORTANT INFOR 1) Energy conversion on (2,000 pounds); 2) Demand savings	n factors for MMi Propane—0.0913	33 MMBtu/ nt an avero	gal ige monthly	kW reduction	on figure. Dem	and saving	s can (and	d usually d	lo) vary by se	ason and in th	eir conversion			8 MMBtu/gal;	; Diesel — 0	.13738 M	MBtu/gal;	Coal—19.54	8 MMBtu/sho

	DETAIL OF C	ANNUAL OST SAVINGS II		NCE PERIOD TO PERFORM		O&M ISSUES	
ECM Number	Impact to Energy Savings (MMBtu)	Impact to Cost Savings (\$)	ECM Location	Total Lost Cost Savings Due to Agency (\$)		Cause for Cost Savings Impact Due to Agency	Cause for Cost Savings Impact Due to ESCO
TOTALS:							
MPORTANT INFOR	RMATION:						
shortfall on the g	s generally guarantee onli uarantee. Moreover, it is o ed by over-achievement o	common for ESCOs' gu	arantees to exclus	ively cover the pro			
2) All the ECM lost	cost savings may not add	up to the total shown	at the bottom of th	ne table due to erro	ors in data.		
ADDITIONAL NOT	ES:						
Version 3.1.1							
epbamv09282020							

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Office of ENERGY EFFICIENCY & RENEWABLE ENERGY

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