Flexible and Consistent Reporting for Energy Efficiency Programs:

Introducing a New Tool for Reporting Utility Customer-Funded Efficiency Program Spending and Savings

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Webinar

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Electricity Markets and Policy Group

Lawrence Berkeley National Laboratory

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Overview

1. Energy efficiency (EE) program reporting: Current situation and challenges
2. Uses of customer-funded EE program data
3. LBNL EE Reporting Tool: Overview and walk through
4. Q&A

EE Reporting: Background

- Administrators of utility customer-funded energy efficiency programs regularly report what they spend and save to their regulators or other oversight entities
- These reports typically include:
  - a narrative that highlights achievements of the program administrator's portfolio of efficiency programs
  - tables and charts that quantify spending, savings, and achievement of policy objectives
- Issues:
  - Energy efficiency reporting practices vary widely among program administrators and states.
  - Many studies of reporting practices for efficiency programs have identified issues of <u>consistency, rigor and completeness</u>
  - Challenging to determine whether a program administrator is achieving its energy efficiency goals

EE Reporting: Current Situation

Spending/Costs

- > 1/2 of states don't report total costs (i.e. program administrator costs *and* participant costs)
- < 1/2 of states report program cost breakdowns, although cost categories often differ

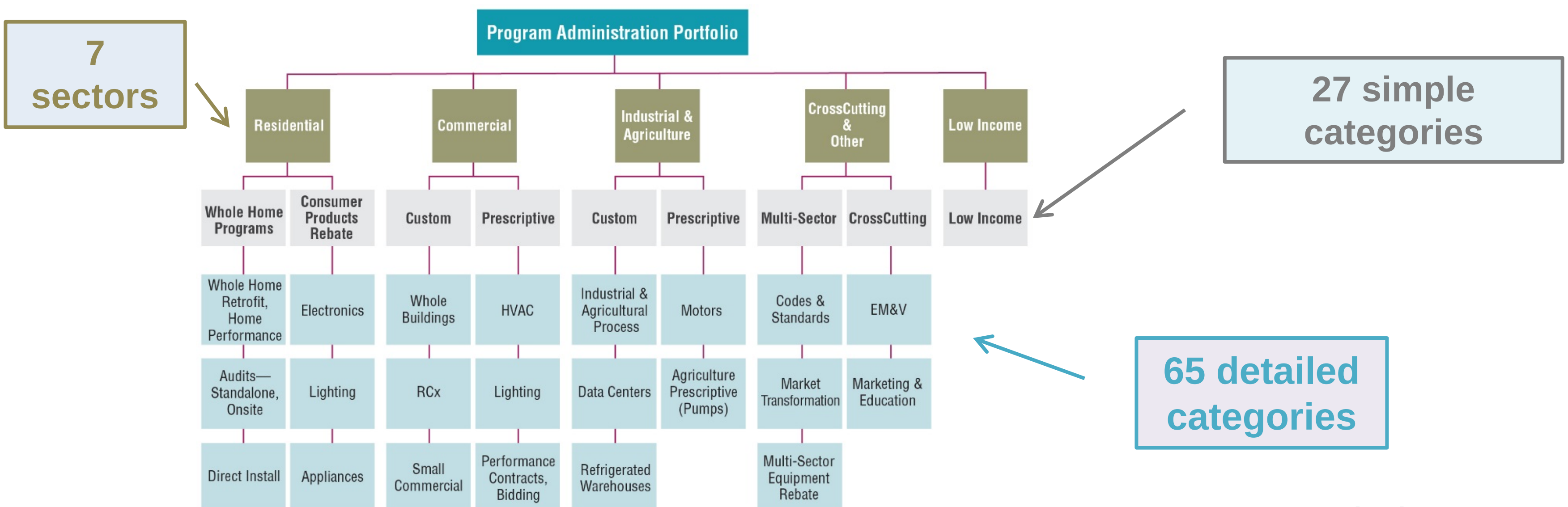
Energy savings

- Only ~ 1/3 of states report lifetime savings.
- "Net savings" often not defined in annual filings, and baselines are rarely defined



Issues in EE Reporting – Standardized Program Typology

- Weak consensus on EE terminology and no fully adopted standard scheme for characterizing EE programs



See LBNL Policy Brief: Energy Efficiency Program Typology and Data Metrics: Enabling Multi-State Analyses Through the Use of Common Terminology – at http://emp.lbl.gov

Program Type Categorization Level

Portfolio	Sector
Simplified	Detailed

EE Reporting Project Objectives

- Encourage more transparency, consistency and rigor in reporting EE program impacts, costs and methodologies
  - Particularly in those states where program administrators do not currently provide annual reports
  - Elevate the quality of reporting by states that are new to EE or just ramping up
  - Greater consistency: classification of spending and resource costs (administrative costs, incentives) and estimation of program impacts (e.g., net savings)
- Encourage comprehensiveness
  - More program-level reporting by states and program administrators on total costs, cost effectiveness, customer participation, market penetration

Uses of Reported Energy Efficiency Data

Program Administrators

- Benchmark to local, regional and state values for similar markets
- Identify opportunities for performance improvements and cost efficiencies

Utility and Air Regulators

- Weigh cost and performance among efficiency resources
- Compare demand and supply resources
- Ensure prudent spending of funds

EE Program Spending, Savings, Cost-effectiveness and Participant Data

System Operators and Resource Planners

- Make better load forecasts and thus enable better GT&D planning
- Aid in integrated resource planning

Efficiency Industry Actors and Other Stakeholders

- Assess market dynamics, trends and opportunities

Flexible and Consistent Reporting for EE Programs

Solution

Spreadsheet-based reporting tool and technical brief

Approach taken

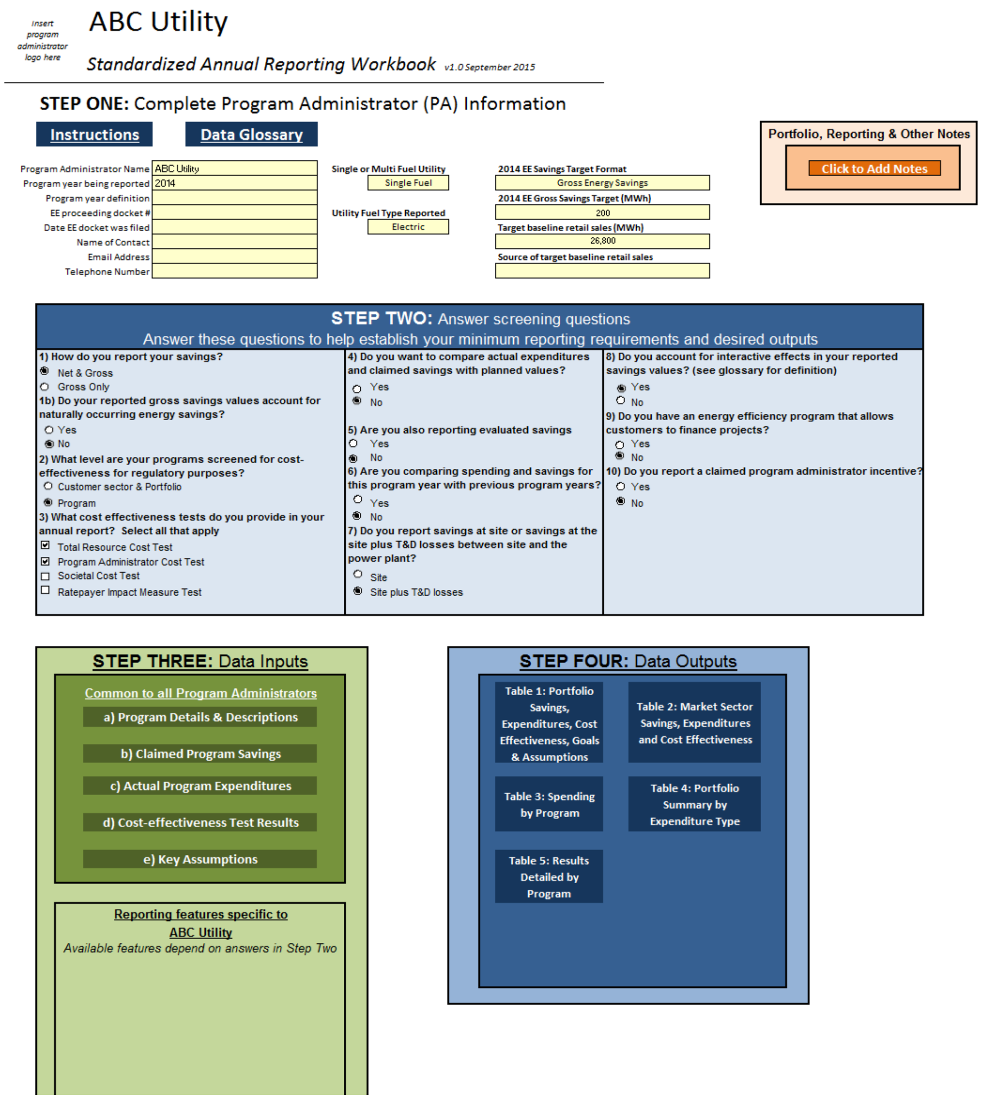
Literature review
↓
Review & enhance existing work
↓
Incorporate Customization
↓
Modify based on feedback
↓
Final Product

Potential benefits of Reporting Tool:

- Reduced time for staff to assess reporting compliance
- Improved benchmarking of programs over time and different geographic regions
- Diagnostic for identifying higher/lower performing programs

LBNL Energy Efficiency Reporting Tool

- Flexible and customizable
- Comprehensive data collection
- Consistent format
- Raises the bar



Core Features

- Core
  - Program category (sector, type)
  - Program implementer
  - Program description
  - Baseline used
  - Claimed annual savings
  - Claimed lifetime savings
  - Measure life
  - Number of participants/units
  - Program expenditures
  - Cost-effectiveness test results

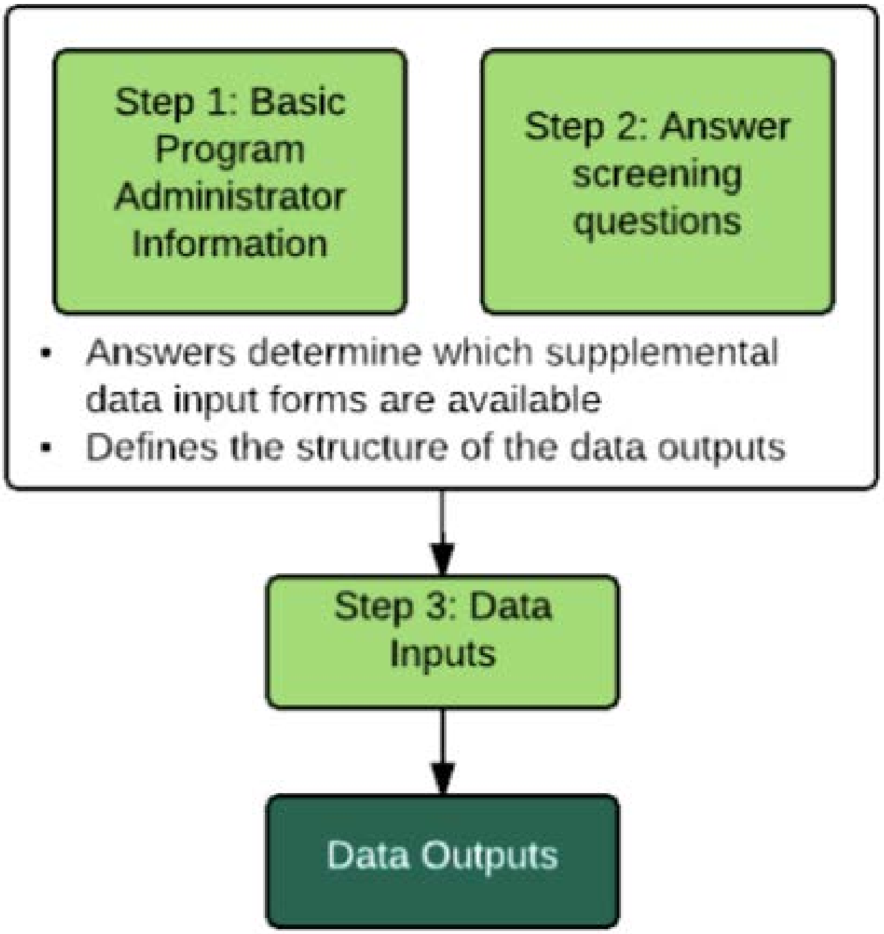
Program Administrator-Specific Features

- Core
  - Program category (sector, type)
  - Program implementer
  - Program description
  - Baseline used
  - Claimed annual savings
  - Claimed lifetime savings
  - Measure life
  - Number of participants/units
  - Program expenditures
  - Cost-Effectiveness test results

- Customizable
  - Net vs gross reporting
  - Sector level reporting or program level reporting
  - Interactive effects
  - Planned savings vs. claimed/reported
  - Evaluated savings
  - Comparison with previous years
  - Site or source reporting of savings
  - EE financing
  - Program administrator incentive

LBNL EE Reporting Tool Walk Through

Using the Tool



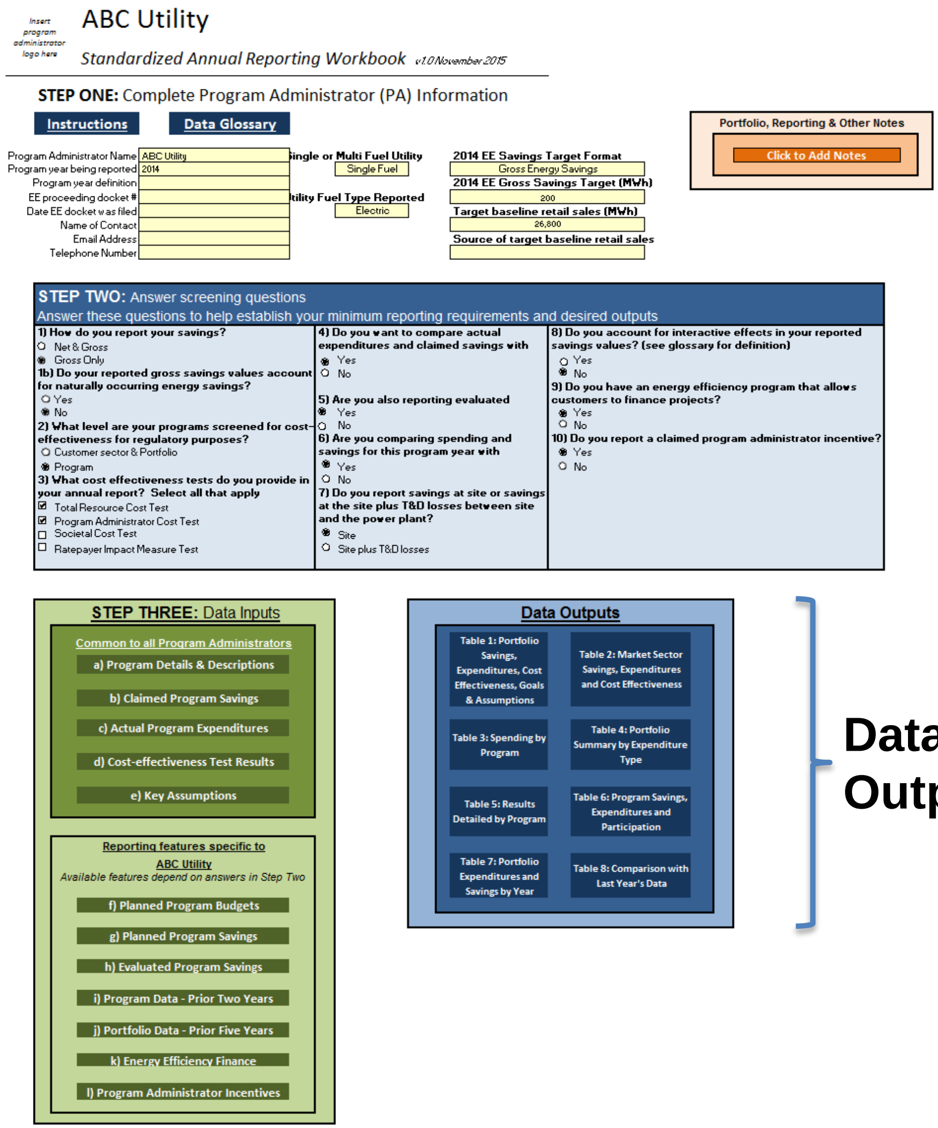
Main Menu

Step One: Complete PA Information

Step Two: Answer screening questions

Step Three: Input Data

Data Outputs


Insert program administrator logo here

ABC Utility

Standardized Annual Reporting Workbook v1.0 November 2015

STEP ONE: Complete Program Administrator (PA) Information

Instructions | Data Glossary

Program Administrator Name: ABC Utility
Program year being reported: 2014
Program year definition
EE proceeding docket #
Date EE docket was filed
Name of Contact
Email Address
Telephone Number

Single or Multi Fuel Utility: Single Fuel
Utility Fuel Type Reported: Electric

2014 EE Savings Target Format: Gross Energy Savings
2014 EE Gross Savings Target (MWh): 200
Target baseline retail sales (MWh): 26,800
Source of target baseline retail sales

Portfolio, Reporting & Other Notes
Click to Add Notes

STEP TWO: Answer screening questions
Answer these questions to help establish your minimum reporting requirements and desired outputs

1) How do you report your savings?
- Net & Gross
- Gross Only

1b) Do your reported gross savings values account for naturally occurring energy savings?
- Yes
- No

2) What level are your programs screened for cost-effectiveness for regulatory purposes?
- Customer sector & Portfolio
- Program

3) What cost effectiveness tests do you provide in your annual report? Select all that apply
- ☑ Total Resource Cost Test
- ☑ Program Administrator Cost Test
- ☐ Societal Cost Test
- ☐ Ratepayer Impact Measure Test

4) Do you want to compare actual expenditures and claimed savings with
- Yes
- No

5) Are you also reporting evaluated
- Yes
- No

6) Are you comparing spending and savings for this program year with
- Yes
- No

7) Do you report savings at site or savings at the site plus T&D losses between site and the power plant?
- Site
- Site plus T&D losses

8) Do you account for interactive effects in your reported savings values? (see glossary for definition)
- Yes
- No

9) Do you have an energy efficiency program that allows customers to finance projects?
- Yes
- No

10) Do you report a claimed program administrator incentive?
- Yes
- No

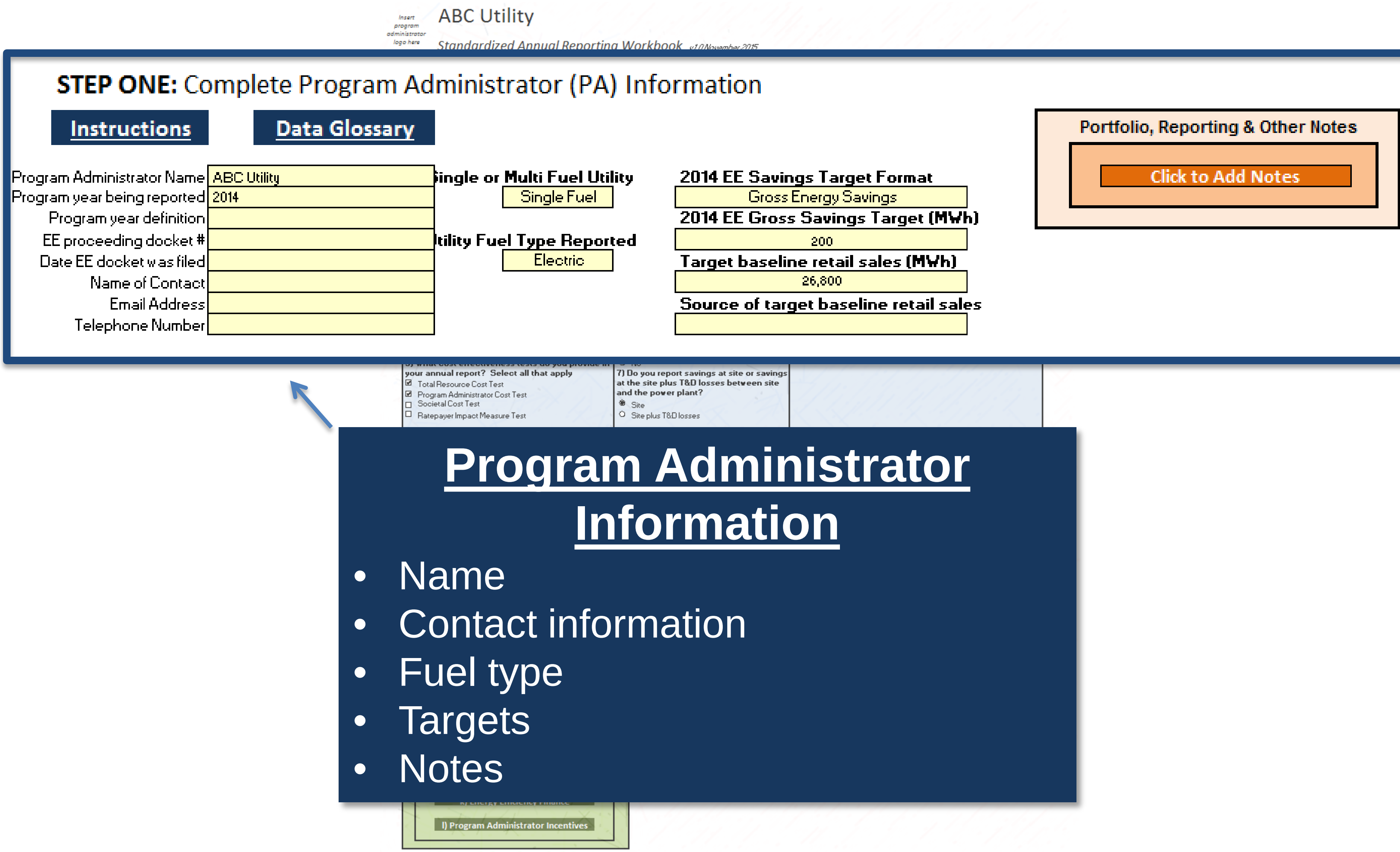
STEP THREE: Data Inputs

Common to all Program Administrators
- a) Program Details & Descriptions
- b) Claimed Program Savings
- c) Actual Program Expenditures
- d) Cost-effectiveness Test Results
- e) Key Assumptions

Reporting features specific to ABC Utility
Available features depend on answers in Step Two
- f) Planned Program Budgets
- g) Planned Program Savings
- h) Evaluated Program Savings
- i) Program Data - Prior Two Years
- j) Portfolio Data - Prior Five Years
- k) Energy Efficiency Finance
- l) Program Administrator Incentives

Data Outputs
- Table 1: Portfolio Savings, Expenditures, Cost Effectiveness, Goals & Assumptions
- Table 2: Market Sector Savings, Expenditures and Cost Effectiveness
- Table 3: Spending by Program
- Table 4: Portfolio Summary by Expenditure Type
- Table 5: Results Detailed by Program
- Table 6: Program Savings, Expenditures and Participation
- Table 7: Portfolio Expenditures and Savings by Year
- Table 8: Comparison with Last Year's Data

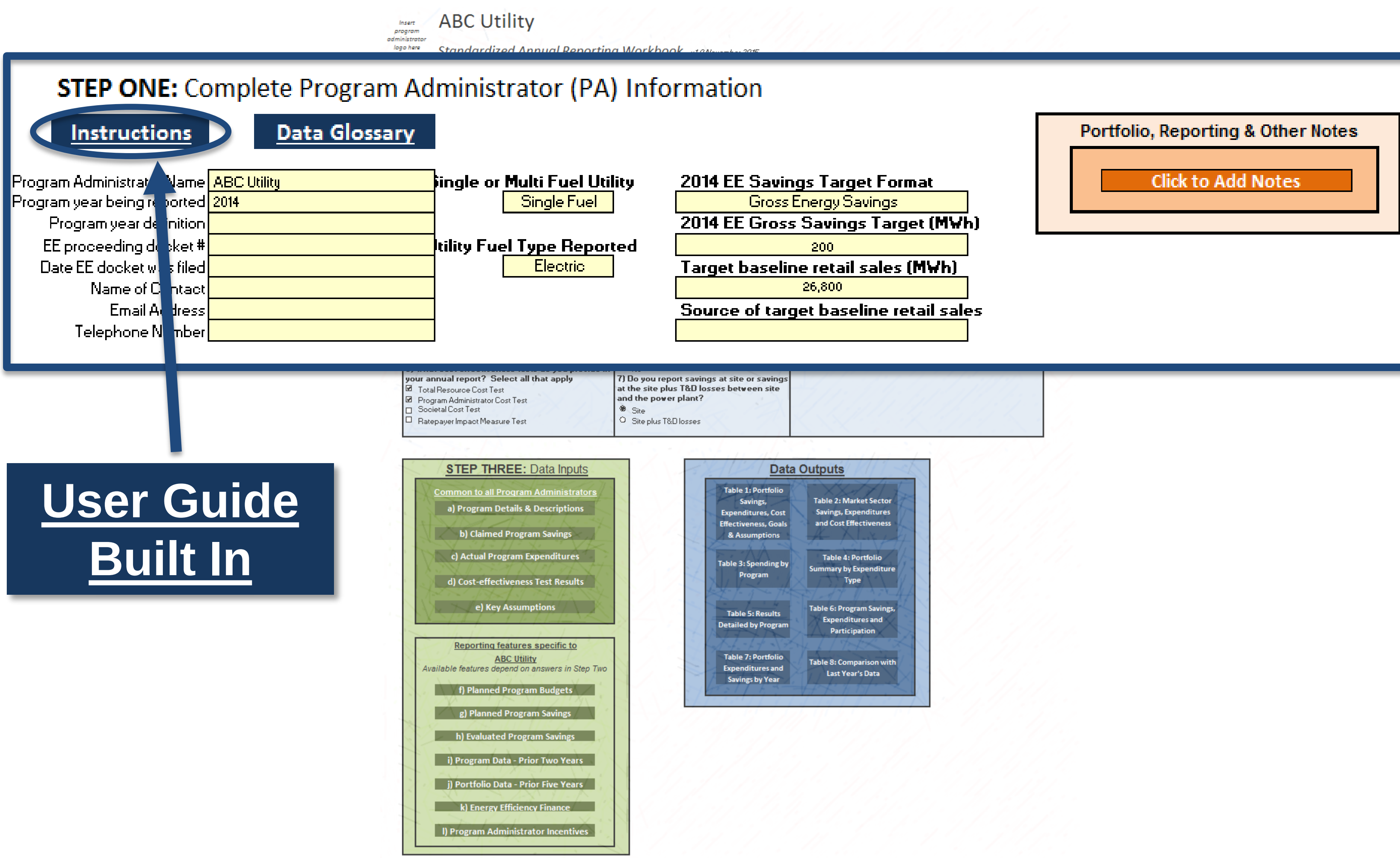
Main Menu – Step One



Program Administrator Information

- Name
- Contact information
- Fuel type
- Targets
- Notes

Main Menu => Instructions



User Guide Built In

Instructions

Main Menu

Instructions

Th... workbook is designed to create an annual report by the Program Administrator (PA) to their regulator or oversite agency that provides information on energy saving... costs and participation values.

Can easily return to the Main Menu

Navigating the workbook

The w... m within the screen without using the tabs. Some users may find it helpful to change the visibility of the tabs in this ...>Options>Advanced, scroll down to see "Display Options for this Workbook" then change the toggle on "Show...

In add... vigate to specific sections of the workbook in order to find or edit specific information.

The 'y... from the user. **You can only enter data in the yellow cells.** Input the requested units as indicated by the workb... the data in MW or if it is MWh provide the data in MWh).

Input values
Calculated values

Completing the workbook

The process for completing this workbook involves **four steps**:

Step One:	Complete Program Administrator (PA) Information
Step Two:	Complete Screening Questionnaire
Step Three:	Data Inputs
Step Four:	Data Outputs

Each step of the workbook is detailed below:

Step One

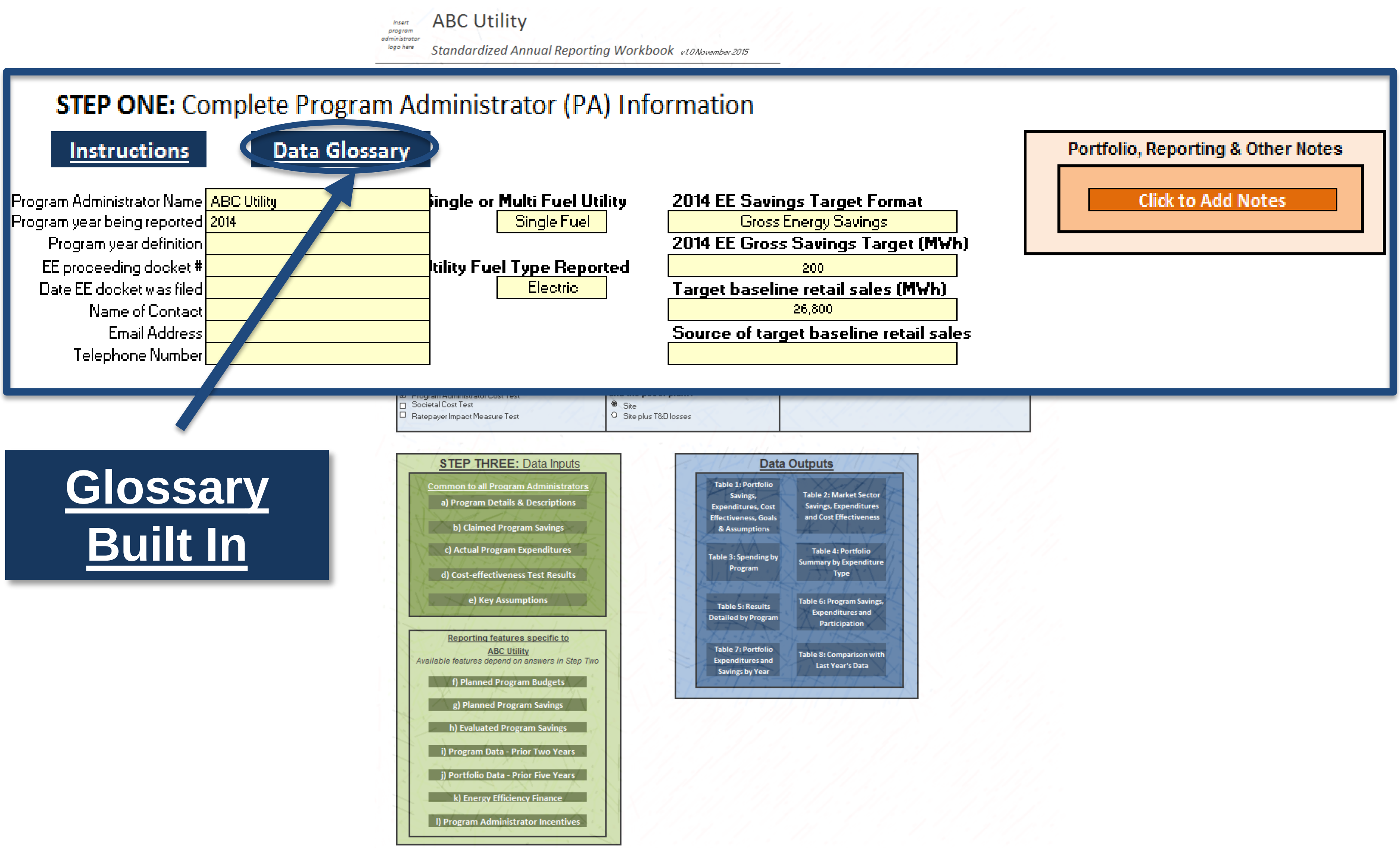
Complete the ***PA information***, including name, fuel type, docket number associated with the programs. Note that dual-fuel utilities will need to complete a separate workbook for each fuel.

Step Two

The ***screening questionnaire*** is an *integral* part of this workbook. It is used to help define the appropriate level of information for a given PA. There are 10 questions, which can be answered either by the PA or by the regulator. The 10 questions must be answered to ensure the information being reported will provide the regulator(s) with at least their minimum data needs.

The results of this questionnaire impact *both* the Inputs (Step Three) and Outputs (Step Four) that are available to the user, so it is **critical** the questionnaire should be answered *before* data is entered in Step Three and Step Four.

Main Menu => Glossary



Glossary Built In

Glossary – Excel & Word Versions

Main Menu

Glossary

Term	Definition
# Participants	Total number of consumers participating in the subject program. For new construction programs, we classify "number of homes or buildings" as the number of participants. In some programs, the number of participants will be the number of structures or multifamily units that received efficiency measures through a program.
# Units	Total number of measures installed or credited with savings in the subject program (e.g., number of CFLs for which savings are claimed in a lighting program). If the number of units reported for a new construction or retrofit program is defined as structures built or retrofitted to a higher level of energy performance, then these are not counted as units but as participants.
Administration Costs ($)	Actual spending by the program administrator (PA) on costs associated with planning, designing and implementing an energy efficiency program in a defined geographic area, unless some of those costs are specifically accounted for elsewhere. In general, these costs pay for the salaries, training and equipping of internal PA staff to administer and implement a program or oversee the work of an outside contract implementer. If evaluation, compliance and marketing, outreach & education costs are not reported separately, then they typically are included under program administration costs. When a program is being terminated, shut-down costs also should be included in administration costs.
Air Quality Impacts	To some degree, power plants generally control emissions of some pollutants to the atmosphere; the balance goes up the stack. Some emissions are harmful to human health and welfare as they are emitted; others contribute to chemical reactions in the atmosphere, creating harmful contaminants while airborne.

Instruction: Click the icon to open the glossary as a separate file. Double-click attached document:

LBNL EE Reporting Tool Glossary

Glossary available as a separate Word file too

Main Menu – Step Two

Insert program administrator logo here

ABC Utility

Standardized Annual Reporting Workbook *v1.0 November 2015*

STEP ONE: Complete Program Administrator (PA) Information

Instructions | Data Glossary

Portfolio, Reporting & Other Notes

Click to Add Notes

Program Administrator Name	ABC Utility
Program year being reported	2014
Program year definition	
EE proceeding docket #	

Single or Multi Fuel Utility: Single Fuel

Utility Fuel Type Reported

2014 EE Savings Target Format: Gross Energy Savings

2014 EE Gross Savings Target (MWh): 200

STEP TWO: Answer screening questions

Answer these questions to help establish your minimum reporting requirements and desired outputs

1) How do you report your savings?
- (●) Net & Gross
- ( ) Gross Only

1b) Do your reported gross savings values account for naturally occurring energy savings?
- ( ) Yes
- (●) No

2) What level are your programs screened for cost-effectiveness for regulatory purposes?
- ( ) Customer sector & Portfolio
- (●) Program

3) What cost effectiveness tests do you provide in your annual report? Select all that apply
- [x] Total Resource Cost Test
- [x] Program Administrator Cost Test
- [ ] Societal Cost Test
- [ ] Ratepayer Impact Measure Test

4) Do you want to compare actual expenditures and claimed savings with planned values?
- (●) Yes
- ( ) No

5) Are you also reporting evaluated savings
- (●) Yes
- ( ) No

6) Are you comparing spending and savings for this program year with previous program years?
- (●) Yes
- ( ) No

7) Do you report savings at site or savings at the site plus T&D losses between site and the power plant?
- (●) Site
- ( ) Site plus T&D losses

8) Do you account for interactive effects in your reported savings values? (see glossary for definition)
- ( ) Yes
- (●) No

9) Do you have an energy efficiency program that allows customers to finance projects?
- (●) Yes
- ( ) No

10) Do you report a claimed program administrator incentive?
- (●) Yes
- ( ) No

e) Key Assumptions

Table 5: Results | Table 6: Program Savings

Screening Questions

- Enables customization
- Answers impact the available data inputs and data outputs

Screening questions

STEP TWO: Answer screening questions

Answer these questions to help establish your minimum reporting requirements and desired outputs

1) How do you report your savings?
- ◉ Net & Gross
- ○ Gross Only

1b) Do your reported gross savings values account for naturally occurring energy savings?
- ○ Yes
- ◉ No

2) What level are your programs screened for cost-effectiveness for regulatory purposes?
- ○ Customer sector & Portfolio
- ◉ Program

3) What cost effectiveness tests do you provide in your annual report? Select all that apply
- ☑ Total Resource Cost Test
- ☑ Program Administrator Cost Test
- ☐ Societal Cost Test
- ☐ Ratepayer Impact Measure Test

4) Do you want to compare actual expenditures and claimed savings with planned values?
- ◉ Yes
- ○ No

5) Are you also reporting evaluated savings
- ◉ Yes
- ○ No

6) Are you comparing spending and savings for this program year with previous program years?
- ◉ Yes
- ○ No

7) Do you report savings at site or savings at the site plus T&D losses between site and the power plant?
- ◉ Site
- ○ Site plus T&D losses

8) Do you account for interactive effects in your reported savings values? (see glossary for definition)
- ○ Yes
- ◉ No

9) Do you have an energy efficiency program that allows customers to finance projects?
- ◉ Yes
- ○ No

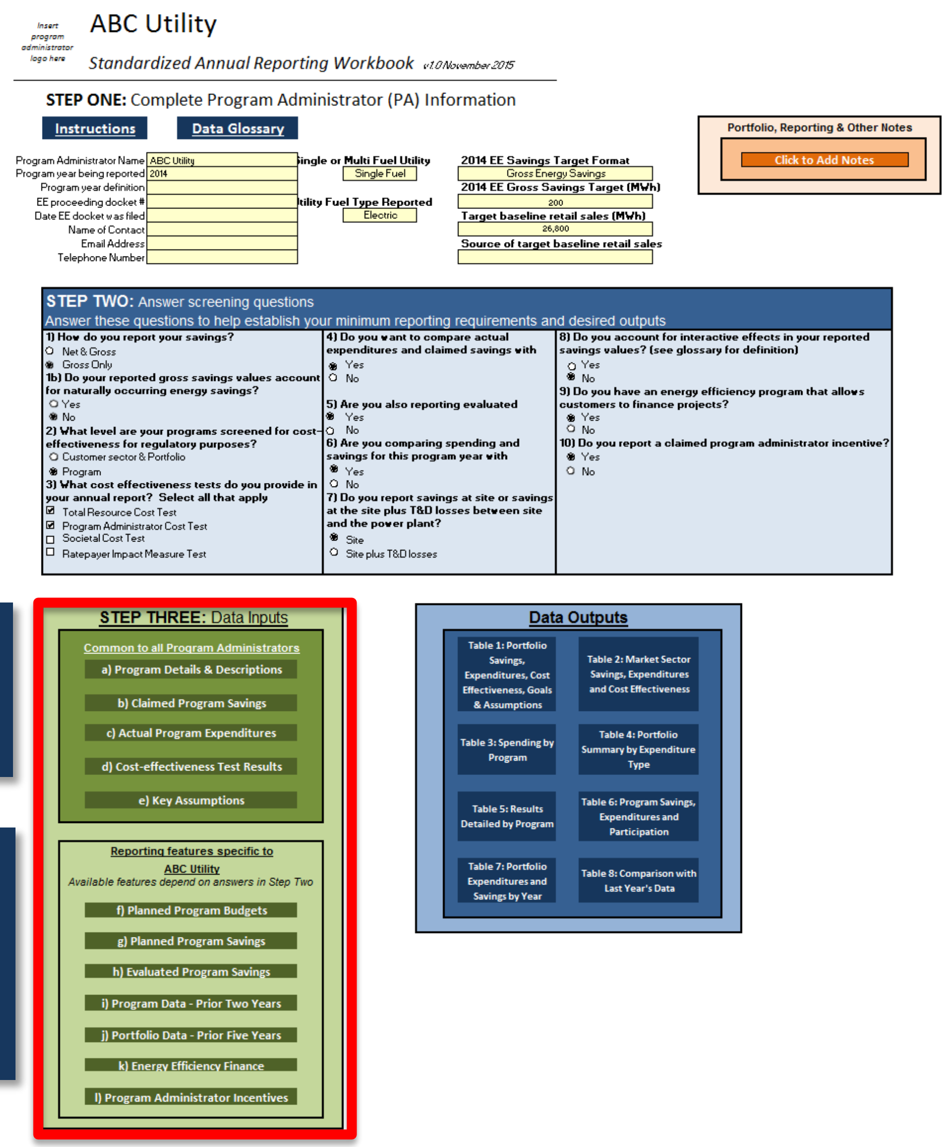
10) Do you report a claimed program administrator incentive?
- ◉ Yes
- ○ No

- Net-to-Gross
- Naturally occurring savings
- Level of cost-effectiveness screening
- Cost-effectiveness tests used

- Planned savings
- Evaluated savings
- Prior years data
- Location of savings

- Interactive effects
- EE financing
- Program administrator incentive

Main Menu – Step Three



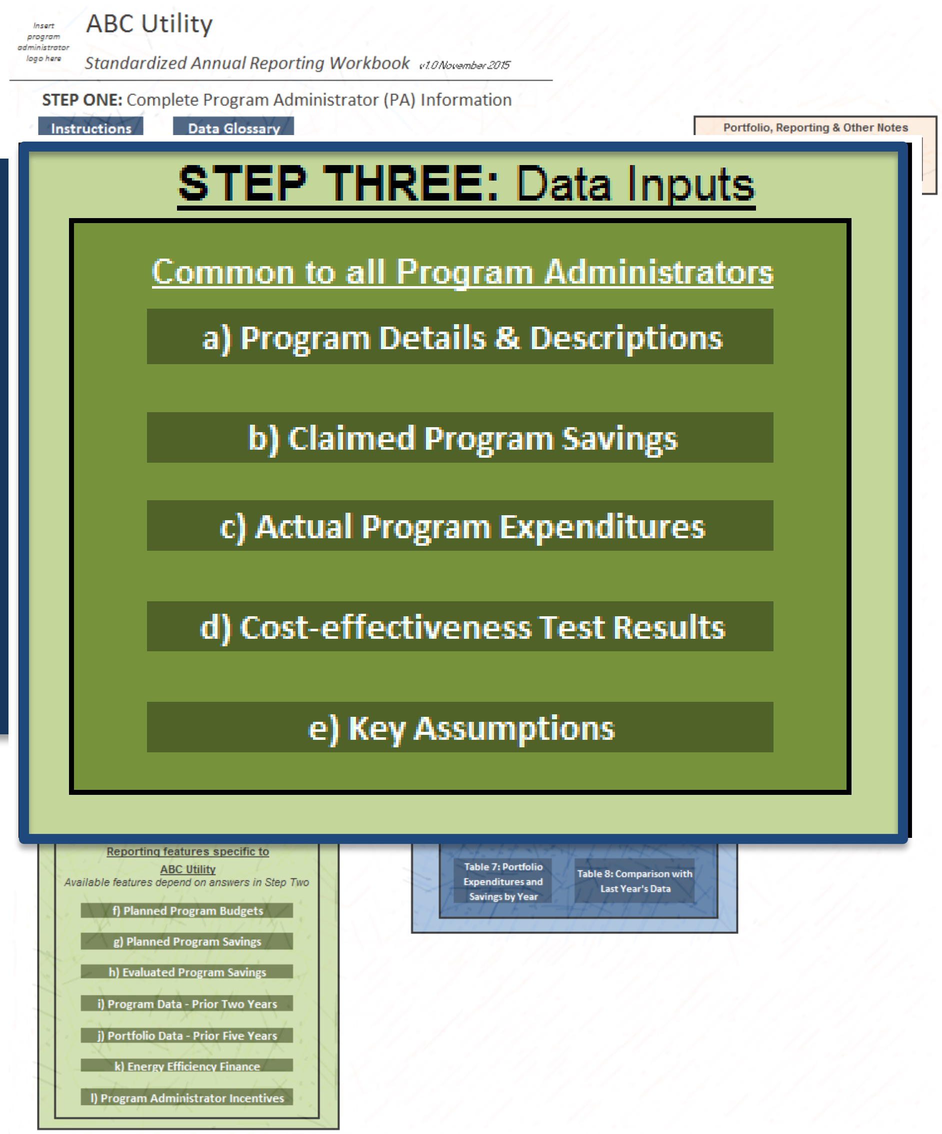
Data Inputs - Core

Data Inputs – PA-specific features

Main Menu – Step Three

Data Inputs - Core

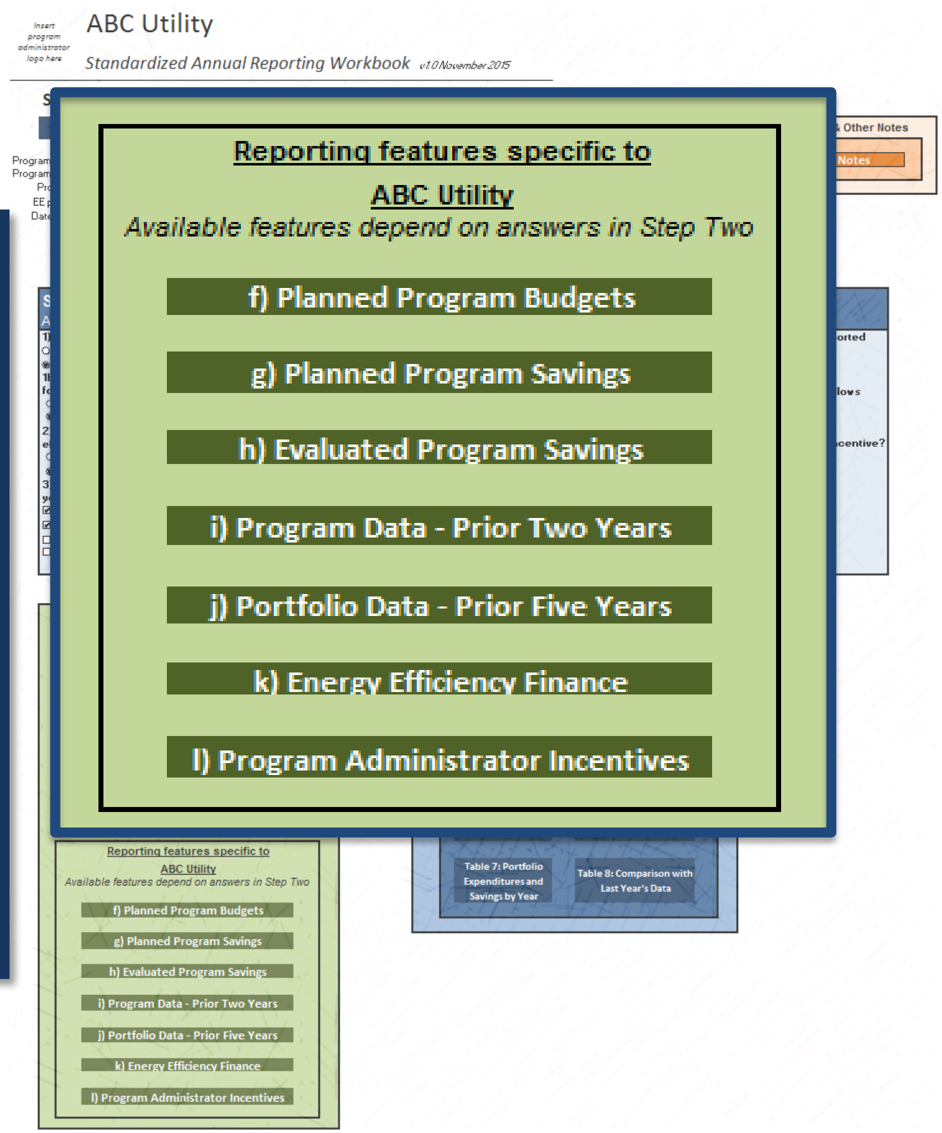
- Program details/descriptions
- Claimed program savings
- Actual program expenditure
- Cost-effectiveness
- Key assumptions



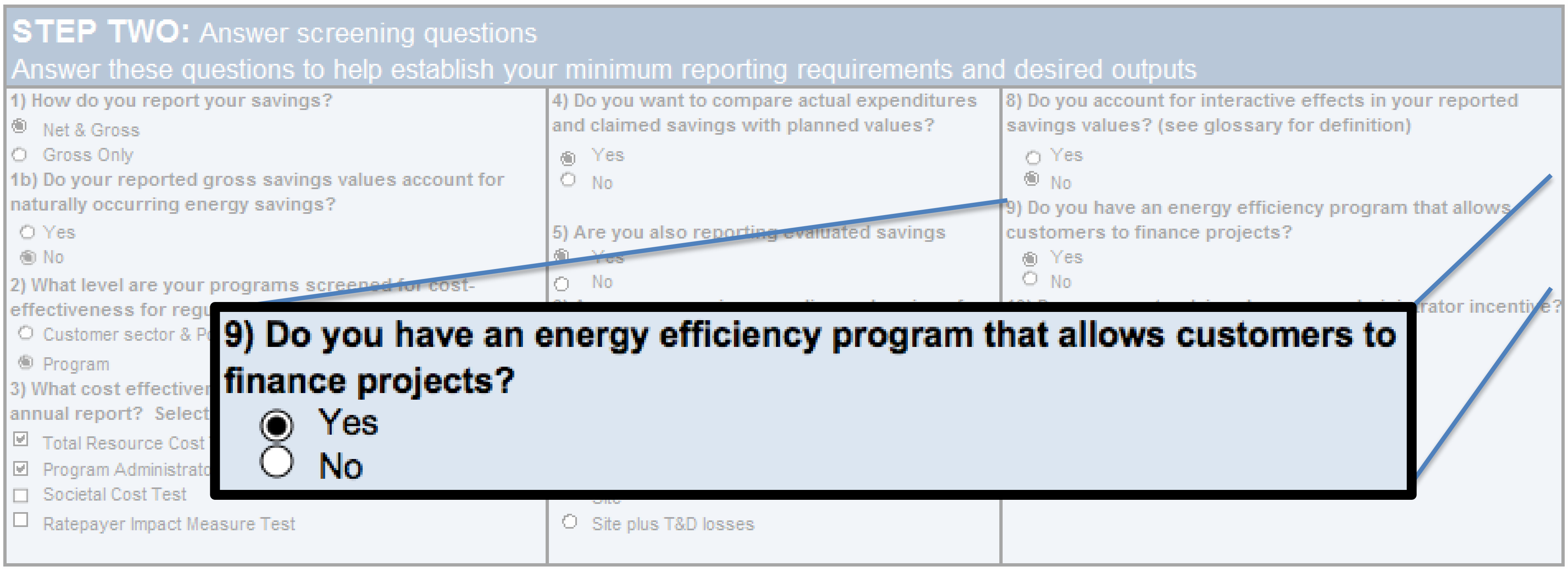
Main Menu – Step Three

Data Inputs – PA-specific features

- Planned budgets
- Planned savings
- Evaluated program savings
- Prior data
- EE finance
- PA incentives



Example: Screening questions impact program administrator-specific inputs



STEP TWO: Answer screening questions

Answer these questions to help establish your minimum reporting requirements and desired outputs

1) How do you report your savings?

- Net & Gross
- Gross Only

1b) Do your reported gross savings values account for naturally occurring energy savings?

- Yes
- No

2) What level are your programs screened for cost-effectiveness for regu

- Customer sector & P
- Program

3) What cost effective

annual report? Select

- Total Resource Cost
- Program Administrat
- Societal Cost Test
- Ratepayer Impact Measure Test

4) Do you want to compare actual expenditures and claimed savings with planned values?

- Yes
- No

5) Are you also reporting evaluated savings

- Yes
- No

- Site plus T&D losses

8) Do you account for interactive effects in your reported savings values? (see glossary for definition)

- Yes
- No

9) Do you have an energy efficiency program that allows customers to finance projects?

- Yes
- No

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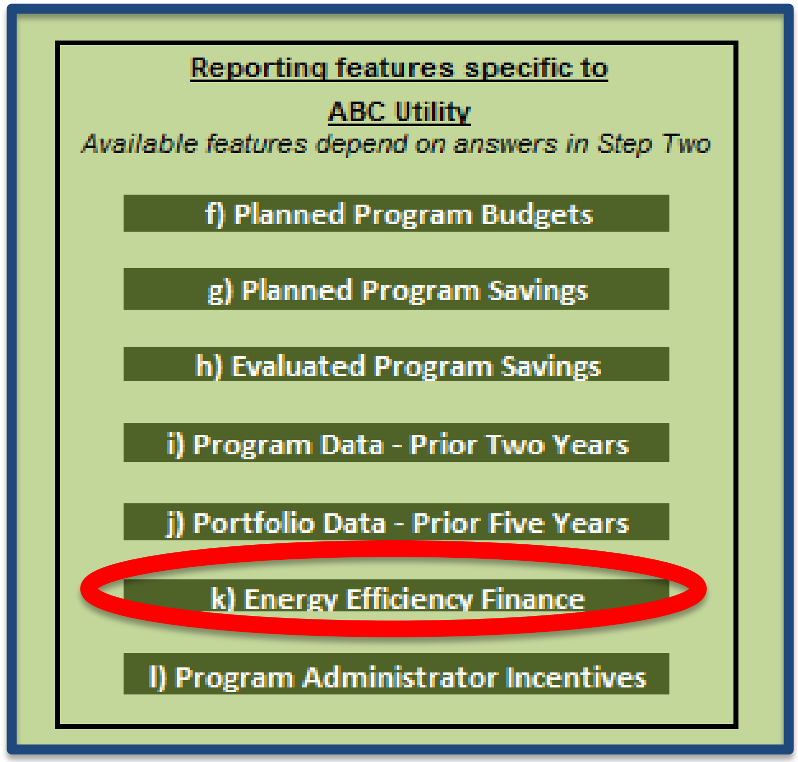
9) Do you have an energy efficiency program that allows customers to finance projects?

- Yes
- No

Example: Screening questions impact program administrator-specific inputs



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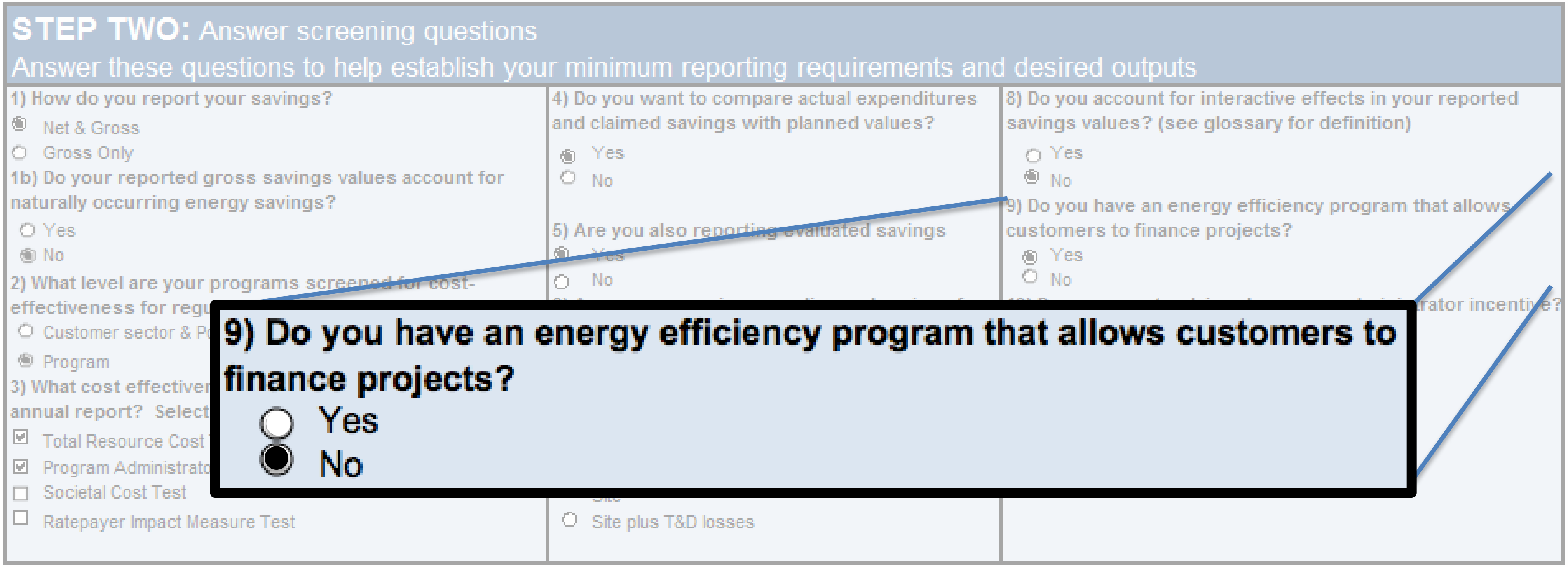
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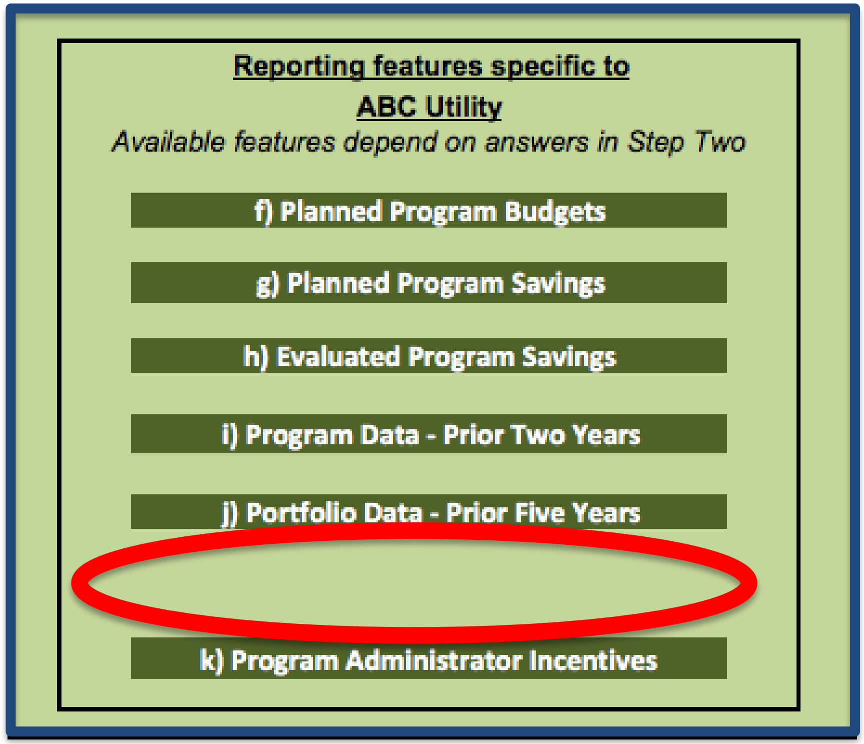
- No

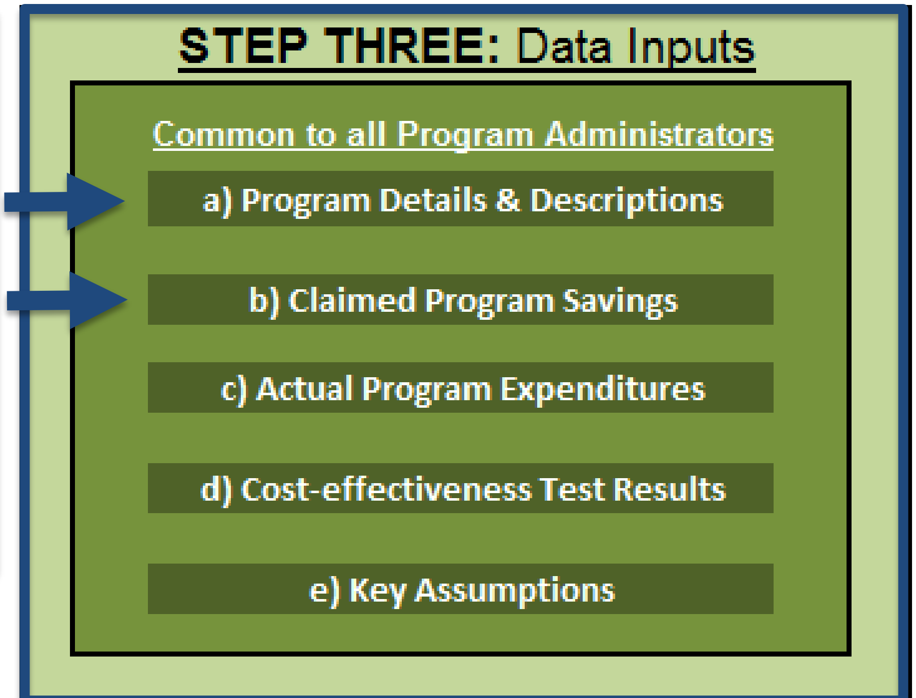
Example: Screening questions impact program administrator-specific inputs



Data Inputs – Two Examples

<u>Two illustrative examples:</u>

- Program details
- Claimed Savings



Data Inputs Example: Program Details

STEP THREE: Data Inputs

Common to all Program Administrators

a) Program Details & Descriptions

b) Claimed Program Savings

c) Actual Program Expenditures

d) Cost-effectiveness Test Results

e) Key Assumptions

Data Inputs Example: Program Details

Main Menu | Program Descriptions

Program Details

Instructions: Provide program details in the following order: Program Name, Target Market Sector and Detailed Program Type. Note that the dropdown options available in Detailed Program Type are dependent on the response provided in the Target Market Sector field. Also, if the Target Market Sector is modified after the Program Type has been selected, then the Detailed Program Type must be selected again. If portfolio-level expenses are being reported, that are not associated with specific programs, then enter these as their own line item(s) with a Target Market Sector of “Cross Sectoral/Other”. If the program type is not available, select the most appropriate Target Market Sector and enter the Detailed Program Type as opposed to using the drop-downs.

Select the type of baseline that is used for determining energy savings for the programs. Include additional information as is appropriate, especially if "Other", "Dynamic" or "Multiple" are selected.

If the program is administered in collaboration with another program administrator (PA), select "Yes" from the dropdown, e.g., a whole home retrofit offered jointly by an electric PA and a gas PA. Also, provide the name of the other PA with which the program is being jointly administered. More details on jointly administered or multi-utility programs can be provided in Program Notes section of the "Program Descriptions" sheet. Provide additional information for each program by clicking on the "Program Descriptions" button.

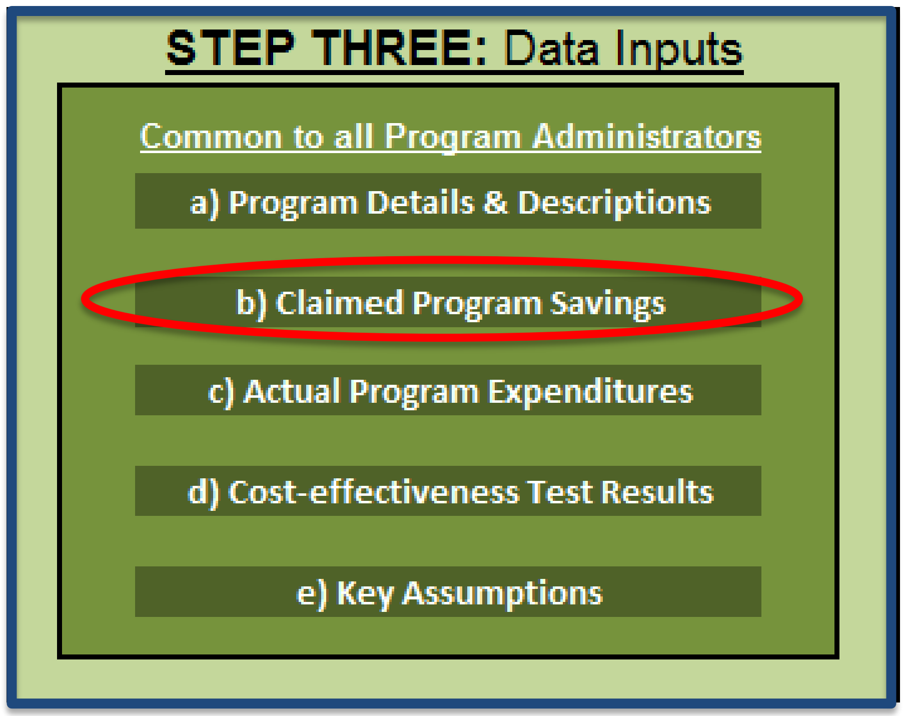
Program Typology | Program Type Definitions

	Program Name	Target Market Sector	Detailed Program Type	Explain baseline	Describe baseline(s) used if "other", "dynamic", or "multiple" were used	Was this program jointly administered?	Who was the other Program Administrator?
1.	Residential New Construction (example)	Residential	Res: New Construction	Code or Standard		No	
2.	Residential Whole Home Retrofit	Residential	Res: Whole Home/Retrofit	Existing conditions		No	
	C&I Prescriptive	Commercial_Industrial	CI: Prescriptive	Existing conditions		No	

- Program Name
- Target Market Sector
- Detailed Program Type

- Baseline
- Joint Administration

Data Inputs Example: Claimed Savings



Data Inputs Example: Claimed Savings

Main Menu

Claimed Program Savings

Instructions: Provide annual demand savings, and annual and lifetime energy savings. Click the "Claimed Net-to-Gross" button to input NTG values. Provide the number of participants or units installed along with the number of eligible participants or estimated market size. Additionally, provide a participant definition for each program.

Program Name	Gross Demand Savings (MW)	Gross Annual Energy Savings (MWh)	Gross Lifetime Energy Savings (MWh)	Claimed Net-to-Gross Net-to-Gross Ratio	Net Demand Savings (MW)	Net Annual Energy Savings (MWh)	Net Lifetime Energy Savings (MWh)	Program Savings Lifetime (Years)	Participants /Units	Eligible Participants	Participant/Unit Definition
1. Residential New Construction (example)	20	258	2,580	0.90	18	232	2,322	10.0	500	8,000	Accounts
2. Residential Whole Home Retrofit	18	15	2,432	0.80	14	12	1,946	9.0	400	8,800	Homes
3. C&I Prescriptive	10	300	1,234	0.70	7	210	864	8.0	32	245	Customers

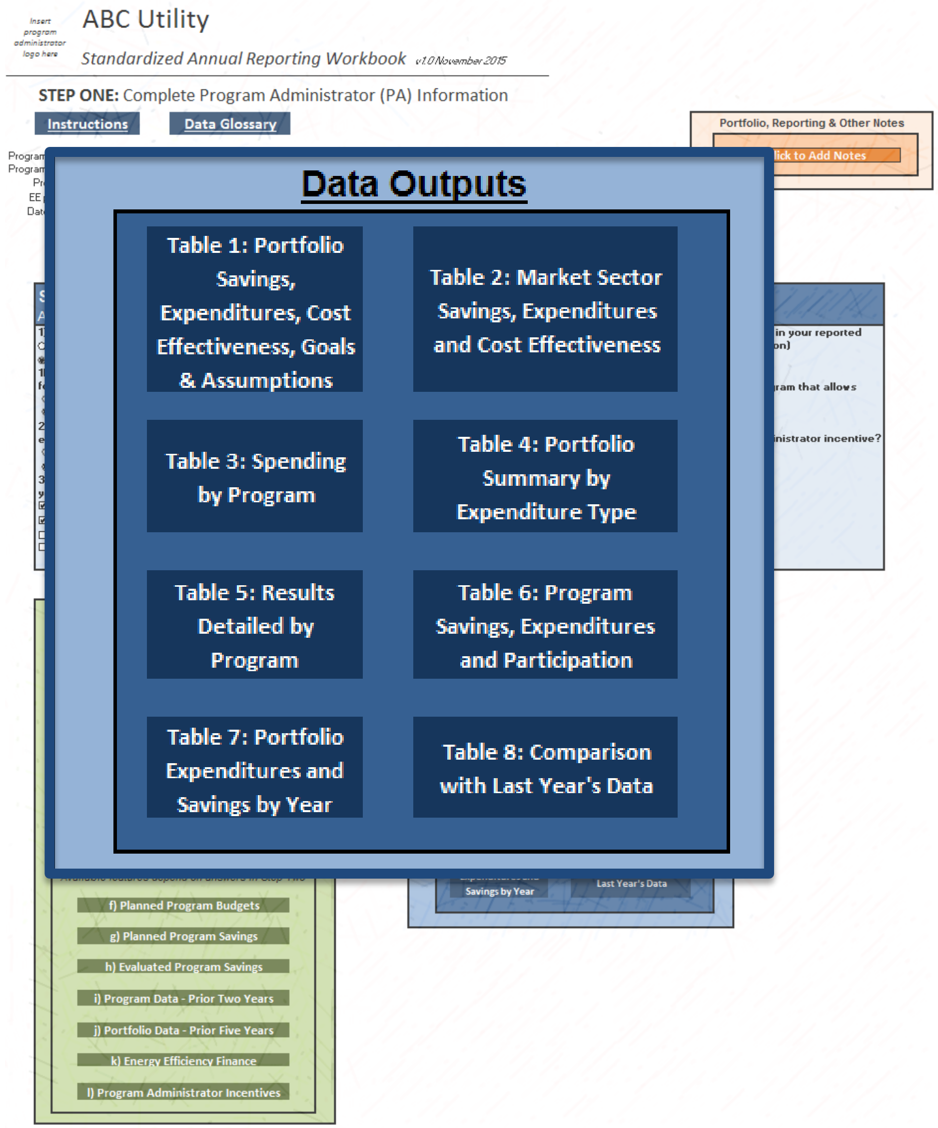
- Gross
  - Demand savings
  - Annual energy savings
  - Lifetime energy savings
- Net-to-Gross Ratio
- Net
  - Demand savings
  - Annual energy savings
  - Lifetime energy savings

- Program savings lifetime
- Participants/Units
- Eligible Participants
- Participant/Unit Definition

Main Menu – Data Outputs

Data Outputs

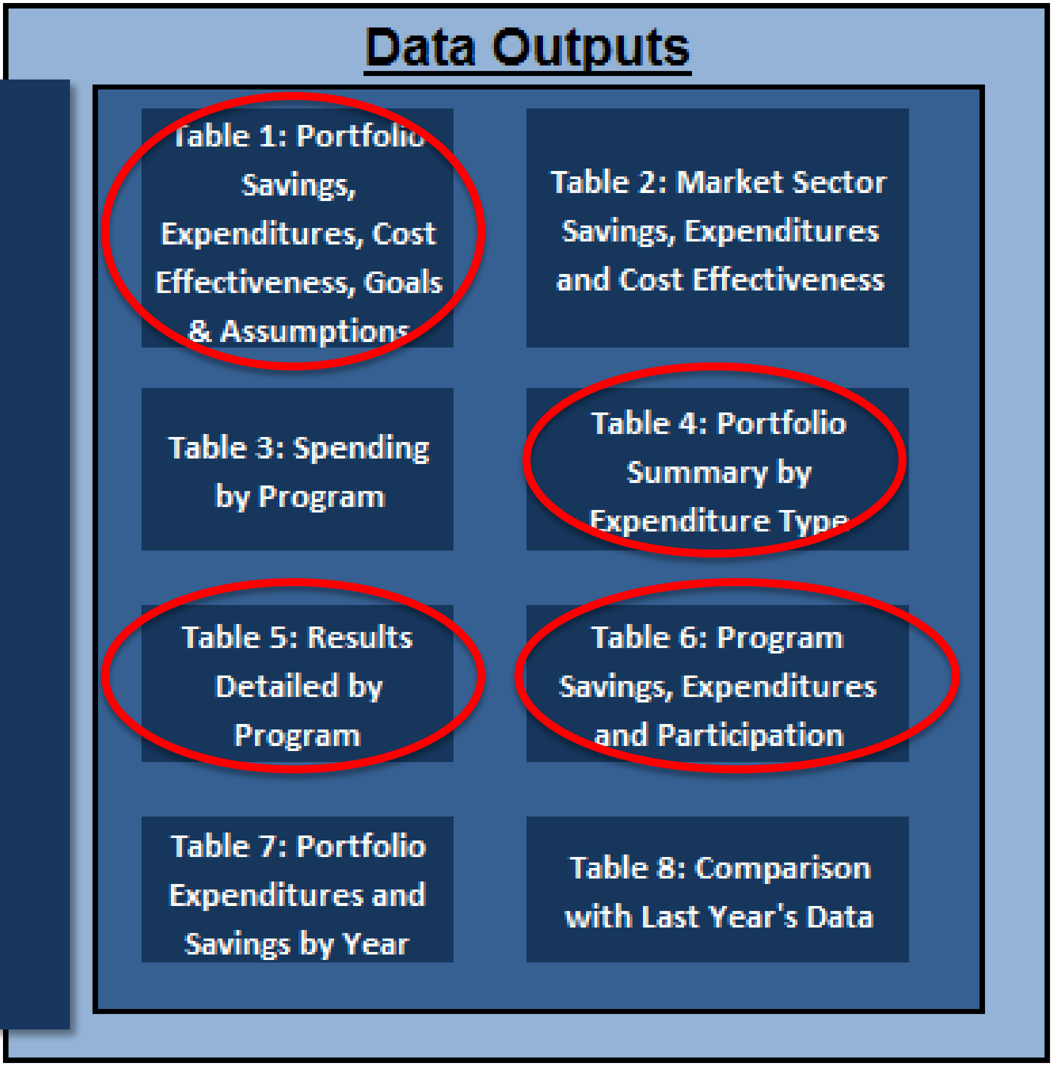
- Portfolio
  - Savings
  - Expenditure
- Sector
  - Savings
  - Expenditure
- Expenditures by program
- Expenditures Type
- Detailed Program Results
- Historical Comparisons



Data Outputs – four examples

Four illustrative examples:

- Program historical details
- Program details
- Portfolio spending
- Portfolio summary



Data Outputs

Data Outputs

- Table 1: Portfolio Savings, Expenditures, Cost Effectiveness, Goals & Assumptions
- Table 2: Market Sector Savings, Expenditures and Cost Effectiveness
- Table 3: Spending by Program
- Table 4: Portfolio Summary by Expenditure Type
- Table 5: Results Detailed by Program
- Table 6: Program Savings, Expenditures and Participation
- Table 7: Portfolio Expenditures and Savings by Year
- Table 8: Comparison with Last Year's Data

Data Output – Program Historical Trends

Main Menu

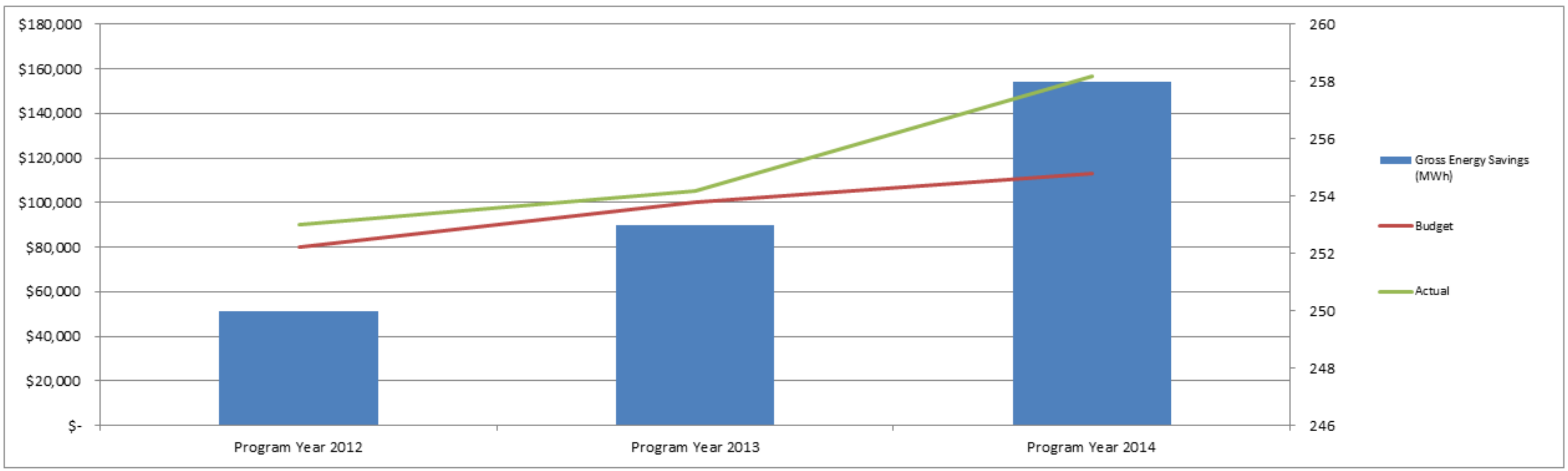
Table 6

Residential New Construction (example)

Select program from dropdown menu to view details.

Residential New Construction (example)

	Expenditures			Gross Energy Savings (MWh)					Net Energy Savings (MWh)					Participants				
Program	**Budget**	**Actual**	**%**	**Plan**	**Claimed**	**%**	**Evaluated**	**%**	**Plan**	**Claimed**	**%**	**Evaluated**	**%**	**Plan**	**Claimed**	**%**	**Evaluated**	**%**
Program Year 2012	$ 80,000	$ 90,000	113%	230	250	109%	200	87%	207	225	109%	180	87%	230	220	96%	220	96%
Program Year 2013	$ 100,000	$ 105,000	105%	250	253	101%	220	88%	225	207	92%	198	88%	230	220	96%	220	96%
Program Year 2014	**$ 113,100**	**$ 156,400**	**138%**	**250**	**258**	**103%**	**340**	136%	**225**	**232**	**103%**	**306**	136%	**240**	**500**	**208%**	**500**	208%



NOTE: Based on answers to screening questions, the savings values are reported at the: site

Data Outputs

Data Outputs

Table 1: Portfolio Savings, Expenditures, Cost Effectiveness, Goals & Assumptions	Table 2: Market Sector Savings, Expenditures and Cost Effectiveness
Table 3: Spending by Program	Table 4: Portfolio Summary by Expenditure Type
Table 5: Results Detailed by Program	Table 6: Program Savings, Expenditures and Participation
Table 7: Portfolio Expenditures and Savings by Year	Table 8: Comparison with Last Year's Data

Data Output – Program Details

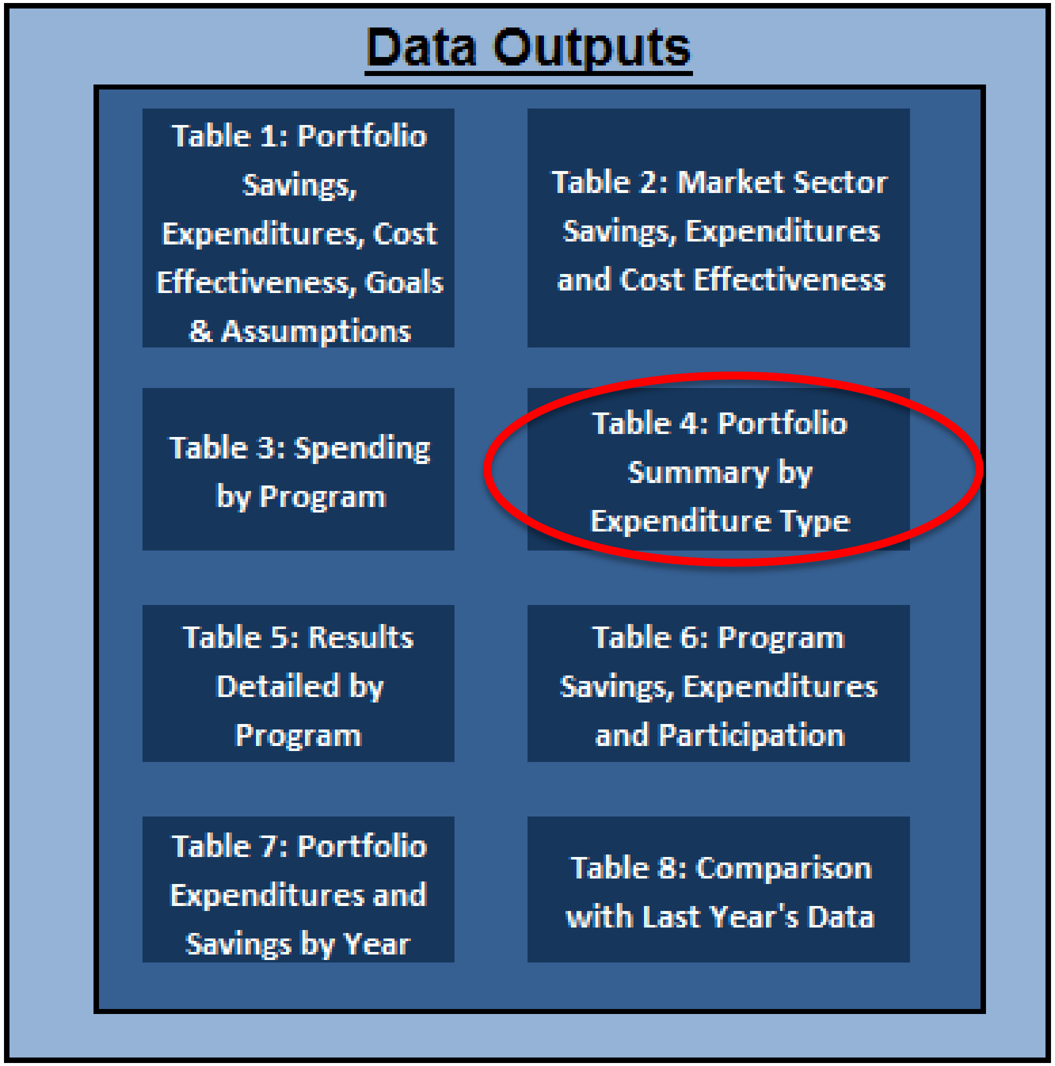
Main Menu

Table 5

2014 Portfolio Data

			Expenditures	Claimed Gross Energy Savings			Claimed Net Energy Savings		
Program Name	Target Sector	Program Type	Actual $	Demand MW	Annual Energy MWh	Lifetime Energy MWh	Demand MW	Annual Energy MWh	Lifetime Energy MWh
Residential New Construction (example)	Residential	Res: New Construction	156400	20	258	2580	18	232.2	2322
Residential Whole Home Retrofit	Residential	Res: Whole Home/Retrofit	215600	18	15	2432	14.4	12	1945.6
C&I Prescriptive	Commercial_Industrial	CI: Prescriptive	156400	10	300	1234	7	210	863.8
"Hide"	-	-	-	-	-	-	-	-	-

Data Outputs



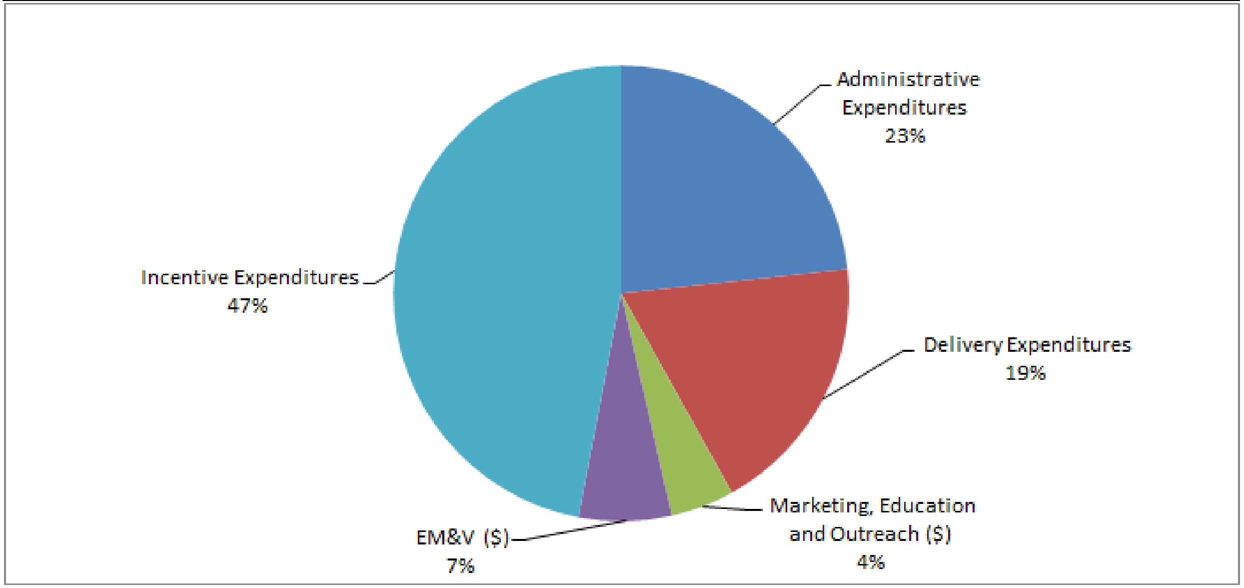
Data Output – Portfolio Details

Main Menu

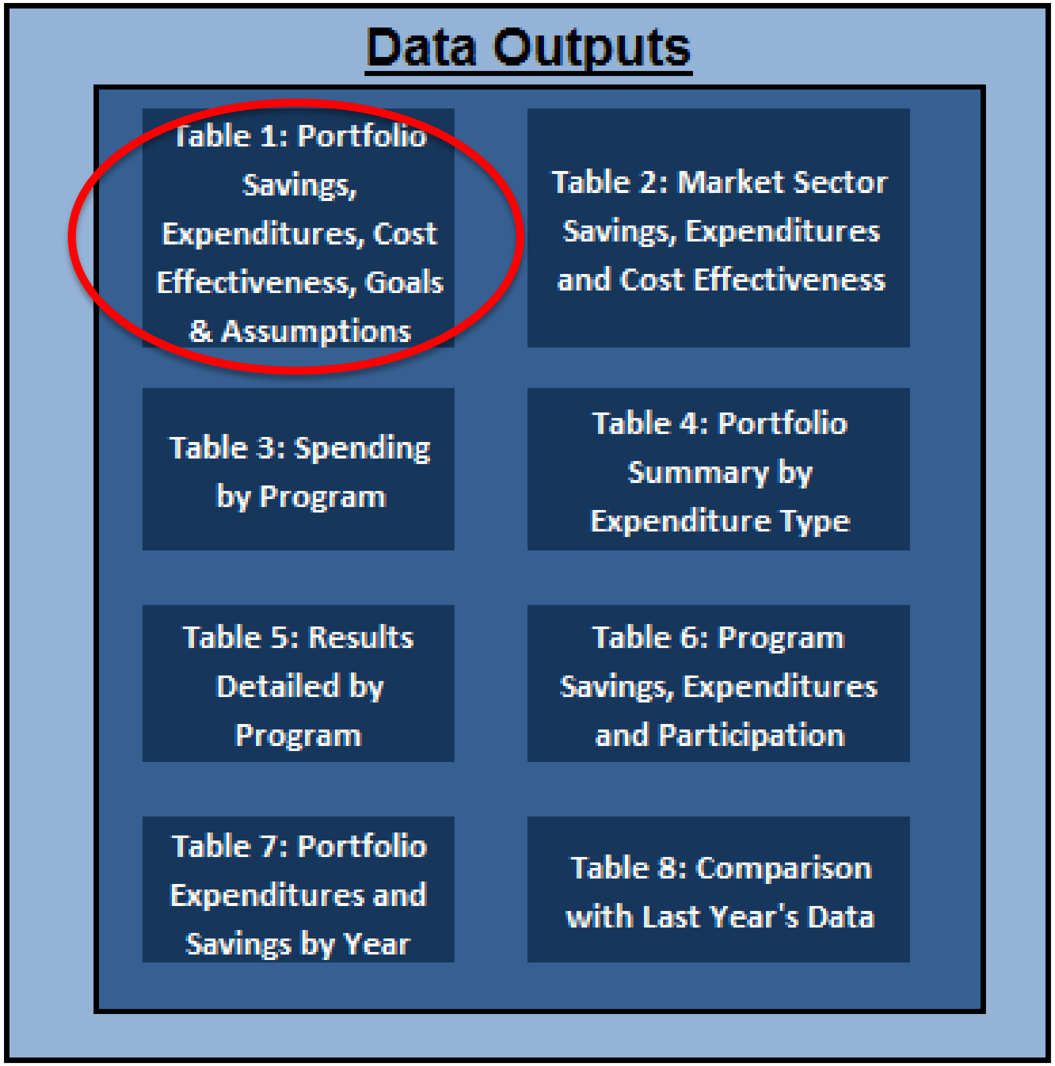
Table 4

EE Portfolio Summary by Expenditure Type

EE Program Expenditure Summary	2014 Total Expenditures			
Expenditure Type	% of Total	Budget ($)	Actual ($)	% of Total
Administrative Expenditures	21%	24,000	24,800	23%
Delivery Expenditures	23%	26,100	19,800	19%
Marketing, Education and Outreach ($)	5%	6,000	4,800	5%
EM&V ($)	6%	7,000	7,000	7%
Incentive Expenditures	44%	50,000	50,000	47%
	100%	**113,100**	**106,400**	100%



Data Outputs: Portfolio level



Data Output – Portfolio Savings, Expenditures, Cost-Effectiveness

Main Menu

Table 1

2014 Portfolio Savings, Expenditures, Cost Effectiveness, Goals & Assumptions																										
Planned Gross Energy Savings			Planned Net Energy Savings			Claimed Gross Energy Savings			Claimed Net Energy Savings			Evaluated Gross Energy Savings			Evaluated Net Energy Savings			Expenditures			Cost-Effectiveness					
Demand MW	Annual Energy MWh	Lifetime Energy MWh	Demand MW	Annual Energy MWh	Lifetime Energy MWh	Demand MW	Annual Energy MWh	Lifetime Energy MWh	Demand MW	Annual Energy MWh	Lifetime Energy MWh	Demand MW	Annual Energy MWh	Lifetime Energy MWh	Demand MW	Annual Energy MWh	Lifetime Energy MWh	Budget	Actual	% of Budget	Total Resource Net Benefits ($000's)	TRC Ratio	Program Administrator Net Benefits ($000's)	PAC Ratio	Societal Net Benefits (PV) ($000's)	SCT Ratio
34.0	250.0	2,500.0	30.6	225.0	2,250.0	48.0	573.0	6,246.0	39.4	454.2	5,131.4	82.4	340.0	3,400.0	74.2	306.0	3,060.0	113,100.0	528,400.0	467.2%	1,123.00	1.56	$ -	-	$ -	-

NOTE: Based on answers to screening questions, the savings values are reported at the: site

Cost-effectiveness assumptions

Utility Discount Rate	0%
TRC/Societal Discount Rate	0%
Participant Discount Rate	0%

Methodology for calculating the cost-effectiveness tests

0

Non-Energy Benefits included in Cost-Effectiveness Tests

	Included	Description *(if different from glossary)*	Included in which Test(s)
Non-Energy Benefits to Participants	0	0	0
O&M Cost Savings	0	0	0
Participant Health Impacts	0	0	0
Employee Productivity	0	0	0
Benefits Unique to Low-Income Consumers	0	0	0
Comfort	0	0	0
Unitary adder for societal benefits	0	0	0
Air Quality Impacts	0	0	0
Water Quantity and Quality Impcts	0	0	0
Employment and Other Economic Impacts	0	0	0
Other Economic Considerations	0	0	0
Societal Risk and Energy Security	0	0	0
Reduction of Effects of Termination of Service	0	0	0
Avoidance of Uncollectible Bills for Utilities	0	0	0
Monetization of emissions	0	0	0
Other	0	0	0

Demand Savings Assumptions *(time period and methodology for which demand savings is*

0

- Energy savings
- Expenditures
- Cost-Effectiveness
- Assumptions

Discussion: Next Steps

- Technical assistance available to states that want to adopt standardized reporting using the tool
- Options include:
  - Customization of reporting tool
    - Include information linked to state policy objectives or reporting required by legislature or PUC (e.g., summary tables, graphs)
  - Augment numerical reporting with a standardized narrative document that provides for qualitative descriptions of the program administrator's efforts

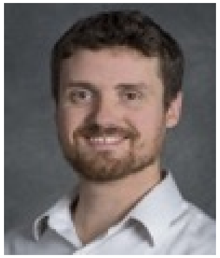
Questions/Comments

http://emp.lbl.gov/

https://emp.lbl.gov/publications/flexible-and-consistent-r

Project funded by DOE Office of Electricity Delivery and Energy Reliability, National Electricity Delivery Division

Contact information



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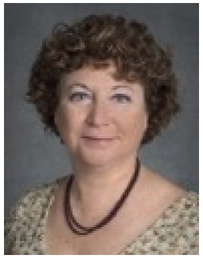

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