

Appendix H – Cost-Effectiveness Calculator User Manual


The finished product for bidders needs values for: TRC, PACT, \$ per kWh and \$ per Therm. Bidders shall not change the established values in the Cost-Effectiveness Calculator. Bidders may only enter the values stated in this manual.


CEC Summary

- **NTG and Realization Rate:** Drop-down arrow to turn ON or OFF. Keep OFF for the purpose of this bid.
- **Budget:** Drop-down arrow to select either MANUAL entry or a SPECTRUM pull. Select MANUAL to allocate budget breakdown.
- **Energy savings targets:** Drop-down arrow to select either MEASURE INPUTS or SPECTRUM pull. Selecting MEASURE INPUTS will pull directly from the Measure Inputs tab (addressed in next section).
- **TRC:** User doesn't enter anything here; it will pull from the Measure Inputs tab.
- Scroll right, and **PACT, \$ per kWh** and **\$ per Therm** values will also pull from Measure Inputs.
- The YTD values (Columns C and L) should remain empty (will only populate when Program data is imported).

Program Name:	Schools, Government, and Agricultural	Realization Rate	Off
Program Start:	1/1/2015	NTG	Off
Bidder:			
Revised	7/23/2014		

Program	YTD Expenses	Budget	% to Budget
Labor	\$ -	\$ -	#DIV/0!
Travel	\$ -	\$ -	#DIV/0!
Marketing	\$ -	\$ -	#DIV/0!
Other Direct Costs	\$ -	\$ -	#DIV/0!
Subcontractors	\$ -	\$ -	#DIV/0!
Incentives	\$ -	\$ -	#DIV/0!
TOTAL	\$ -	\$ -	#DIV/0!

Manual 

Enter budget here 

Measure Inputs

- Entering measure inputs on this tab will populate the CEC Summary tab.
- Columns labeled in **red** must be manually entered: **Measure Quantity, Incremental Cost** and **Incentive**.
 - NTG and Realization Ratios can remain at 100%, but if you want to change them, be sure they're activated by selecting ON in the CEC Summary tab.

	A	B	C	D	E	F	G
1	Schools, Government, and Agricultural						
2							
3							
4	Projected Gross Total						
5	Measure Name	MMI D	Sector	Group	Quantity	Incremental Cost	Incentive
6	A La Carte Measures	2779	Agriculture	Other			
7	A La Carte Measures	2779	Schools & Government	Other			
8	A/C Coil Cleaning, < 10 tons	3059	Schools & Government	HVAC			
9	A/C Coil Cleaning, < 10 tons	3059	Agriculture	HVAC			
10	A/C Coil Cleaning, > 20 tons	3060	Schools & Government	HVAC			

- All **custom** and **hybrid measure energy savings** must be entered manually, while prescriptive measures pull savings directly from SPECTRUM.
 - Refer to Column P: Measure Type.
- Scroll right to see total annual kW, kWh and Therms through 2045 (auto-populated).

G	H	I	J	K
0			0	0
-	-	-	-	-
kW Savings Peak Demand	kWh Savings First Year	Therm Savings First Year	kWh Savings Life Cycle	Therm Savings Life Cycle
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

Manually enter Custom & Hybrid measure energy savings

CEC

- No manual entry. Will populate after a Program Import.
- Includes: Portfolio Balancing Units (\$/Unit Savings), PACT (Benefits & Costs), and TRC (Benefits & Costs).

Program Import

- Not for bid.
- Once program is underway, will be able to copy/paste from Program Import spreadsheet to import program data and compare progress to the design.

Avoided Costs

- Bidders shall not change established values.
- Includes: Financial assumptions, energy unit assumptions, natural gas and electric externalities, line loss factors, emissions factors, and avoided costs.

CEC	Cost-Effectiveness Calculator
EUL	Effective Useful Life
NTG	Net-to-gross ratio
PACT	Program Administrator Cost Test (Utility Cost Test)
Realization Ratio	Applied to go from gross to verified gross savings
TRC	Total Resource Cost