

Appendix H - Cost-Effectiveness Calculator User Manual

The finished product for bidders needs values for: TRC, PACT, \$ per kWh and \$ per Therm.

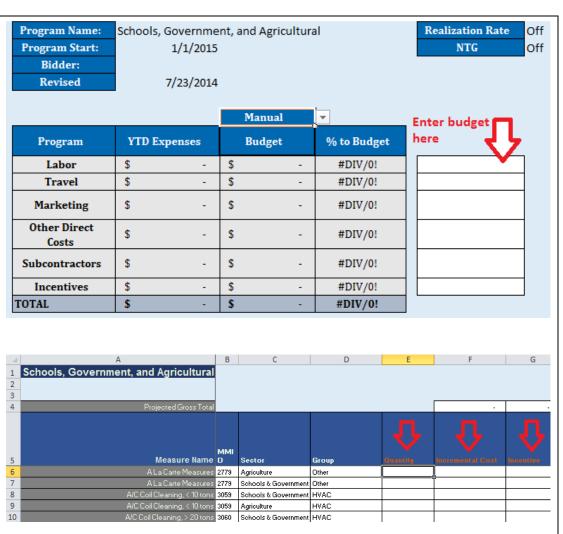
Bidders shall not change the established values in the Cost-Effectiveness Calculator. Bidders may only enter the values stated in this manual.

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).

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.
 - o 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.



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

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.

G	Н	1	J	K
0			0	0
		Therm		-
k V Savings Peak Demand	k∀h Savings First Year	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	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