

# CPUC Staff Ex Ante Review

<b>CPUC Staff Project ID Number</b>	PGE_20_C_R_495_PRJ - 02370256_WholeBldg
<b>CMPA Directory Link</b>	<a href="https://deeresources.info/cmpa/projects/17241">https://deeresources.info/cmpa/projects/17241</a>
<b>PA</b>	PGE
<b>PA Application ID</b>	PRJ - 02370256
<b>PA Application Executed Date</b>	NA
<b>PA Program ID</b>	a0n3p00000BfyAf
<b>PA Program Name</b>	Energy Upgrade California - Custom - Multifamily Upgrade
<b>PA Program Year</b>	
<b>Date of CPUC Staff Review:</b>	7/13/2020
<b>PA CMPA Upload Dates Included in this review:</b>	
First PA Upload	5/26/2020
Second PA Upload	6/16/2020
Third PA Upload	N/A
Fourth PA Upload	
Fifth PA Upload	
Sixth PA Upload	
Seventh PA Upload	
Eighth PA Upload	
<b>PA Measure Description(s):</b>	
Measure 1	
Measure 2	
Measure 3	
Measure 4	
Measure 5	
Measure 6	
Measure 7	
Measure 8	
Measure 9	
Measure 10	
<b>PA Project Description:</b>	NA
<b>Bi-Monthly Upload kW Demand Reduction</b>	1.6
<b>Bi-Monthly Upload Annual kWh Impacts</b>	250,121.0
<b>Bi-Monthly Upload Therm Impacts</b>	16,556.0
<b>PA Proposed Incentive \$ (to Customer)</b>	\$315,000.00
<b>Project Documentation kW Demand Reduction</b>	
<b>Project Documentation Annual kWh Impacts</b>	

<b>Project Documentation Annual Therm Impacts</b>	
<b>CPUC Staff Primary Reviewer Name</b>	
<b>CPUC Staff Primary Reviewer Firm</b>	Sugarpine
<b>CPUC Staff Review Supervisor Name</b>	
<b>CPUC Staff Review Supervisor Firm</b>	SBW
<b>PA Primary Reviewer Name</b>	
<b>PA Primary Reviewer Firm</b>	
<b>CPUC Staff Project Manager</b>	
<b>CPUC Staff Policy Authorization (as needed)</b>	
<b>CPUC Staff Recommendation:</b>	Application ready to proceed with exception(s), as noted
<b>For rejection, action required:</b>	N/A
<b>M&amp;V Review:</b>	Post M&V Review NOT Required

<b>Action Number:</b>	<b>Summary of CPUC Staff Required Action by the PA:</b>	<b>Action Category</b>
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<p>1</p>	<ul style="list-style-type: none"> <li>•Submitted ECON-2, Epro models, and Savings Calculations spreadsheet do not have corresponding existing numbers. We ran the Epro models in version 7.2.7 and the numbers were closer but still off. Please correct discrepancies.</li> <li>•The only difference between the “existing conditions” between the two E-pro models appears to be LPD which starts at .22 w/sf and goes down to .09 W/sf. These are just the numbers of the common area lighting (per the savings calculation spreadsheet) and do not take into account the apartment LPD pre and post numbers, but they are applied to the total building sf, since they are not delineated in the Epro models. Please calculate the total LPD (common and apartments) and apply the pre and post # to the Epro models and then only count one row for lighting savings in the savings calculation spreadsheet.</li> <li>•The LPD numbers pre and post look too low to provide adequate lighting (especially the common areas). Please verify the LPD numbers are correct.</li> <li>•The savings from the low flow aerators, smart thermostats, and pool recirc pumps are included in the Epro model as a Custom savings measure and are also added to the Savings Calculation spreadsheet separately. Due to the savings calculations not having corresponding numbers it is unclear if the savings calculated in Epro were not used. Verify these savings were only counted once.</li> <li>•The savings calculated from the pool and spa pumps are unrelated to the building energy use calculated with Epro. To get accurate savings the pre kWh and Therms need to be added to the baseline building energy use before the actual savings can be calculated. Please correct this in the savings spreadsheet.</li> <li>•The working paper calculating energy savings by smart thermostats appears to be geared toward single family homes. It does not include per square foot savings calculations so it is likely overestimating the savings achieved in apartments. Verify this is an acceptable savings calculation for apartments.</li> <li>•Submitted ECON-2 forms do not show any energy use for building heating. When the models were ran in version 7 heating energy is shown on the ECON-2 form. Please verify that the submitted ECON-2 results include building heating energy.</li> </ul>	<p>Analysis assumptions</p>

Note or Instruction Number:	CPUC Staff Notes or Instructions:	Instruction Category

