

**CPUC Staff Ex Ante Review**

<b>CPUC Staff Project ID Number</b>	PGE_20_C_A_446_PRJ - 02224463_HVAC				
<b>CMPA Directory Link</b>	<a href="#">#NA</a>				
<b>PA</b>	PGE				
<b>PA Application ID</b>	PRJ - 02224463				
<b>PA Application Executed Date</b>	NA				
<b>PA Program ID</b>	a0n360000NcVkf				
<b>PA Program Name</b>	Agricultural Calculated Incentives - Customized Incentive Program				
<b>PA Program Year</b>					
<b>Date of CPUC Staff Review:</b>	7/14/2020				
<b>PA CMPA Upload Dates Included in this review:</b>					
First PA Upload	3/28/2020				
Second PA Upload	4/21/2020				
Third PA Upload	N/A				
<b>PA Measure Description(s):</b>					
Measure 1	PROCESS RETROFIT/NEW-FAN-EFFICIENT UNIT				
Measure 2	PROCESS RETROFIT/NEW-FAN-VFD				
Measure 3					
Measure 4					
Measure 5					
Measure 6					
Measure 7					
Measure 8					
Measure 9					
Measure 10					
<b>PA Project Description:</b>	NA				
<b>PA Ex Ante kW Demand Reduction</b>	53.2				
<b>PA Ex Ante Annual kWh Impacts</b>	289,980.0				
<b>PA Ex Ante Annual Therm Impacts</b>	1.0				
<b>PA Proposed Incentive \$ (to Customer)</b>	\$42,629.98				
<b>PA Proposed Total Payment to Implementer \$ (not to include the above incentive to customer)</b>	0				
<b>CPUC Staff Approved Ex Ante kW Demand Reduction</b>					
<b>CPUC Staff Approved Ex Ante Annual kWh Impacts</b>					
<b>CPUC Staff Approved Ex Ante Annual Therm Impacts</b>					
<b>CPUC Staff Primary Reviewer Name</b>					
<b>CPUC Staff Primary Reviewer Firm</b>	SBW Consulting				
<b>CPUC Staff Review Supervisor Name</b>					
<b>CPUC Staff Review Supervisor Firm</b>	SBW Consulting				
<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 Marked "X":</b>					
	Application ready to proceed without exception				
X	Application ready to proceed with exception(s), as noted				
	Application rejected.				
	Application not ready for review, revised and resubmit as noted				
<b>Action Number:</b>	<b>Summary of CPUC Staff Required Action by the PA:</b>	<b>Action Category</b>	<b>Due Date</b>	<b>PA Response</b>	<b>CPUC Staff Response</b>
1	The scope of the project is not clear. The project documentation package does not include a narrative explaining what measures are, how they impact existing equipment and why New Construction MAT was selected. Please provide a narrative for the project to explain existing and installed equipment type, QTY, operation.	Missing required information	within 30 days of this disposition	The narrative that explains the scope of the project has not been added as a separate document in an attached documentation for the project, but it is written directly in the Energy Insight platform. As a solution, for this project and for future projects we will provide a separate project document with all the narratives. The program has recently (scheduled for July 2020) promoted the use of templates for this purpose, so these details can be more easily seen in the documentation for CPUC review. Please view narrative in the Project Description of the attached PDF file entitled: "PRJ - 02224463 Narrative per EI Page_CONF.pdf"	Thanks for providing the EI narrative. The proposed change to the project documentation submittal is very helpful. No other action is required under this item.
2	According to some of the provided documentation the facility has enough existing ventilation fans for existing barns and these new high efficiency variable speed fans are replacing existing constant speed fans. This indicates that these are replacement measures. on the other hand, the calculation workbook has a note indication that the project involves load expansion. Please explain why NC is the appropriate MAT.	Measure Type	within 30 days of this disposition	Yes, this project involves load expansion (in kW) and increased ventilation. After checking with vendor about this question, we realized that the number of existing fans to be replaced is only 23 not 135. (Vendor email attached: PRJ - 02224463_Existing Fan Counts_CONF.msg). We have updated the calculation file to update this number. When we submitted the project, we wrongly assumed that the replacement was going to be a 1 for 1 replacement. Per email the information was provided to PG&E several months before submittal, but at the time of submittal it wasn't visible, so the wrong assumption was made. We apologize for the confusion. Furthermore, it was unfortunate that during the site inspection, this particular barn was not accessible to count the fans, so PG&E relied on the vendor's counts. In general, these fan & VFD projects do increase load significantly, this is because Dairy owners have realized the effects of additional ventilation on cow comfort and production and the 10 year old fan design is no longer attractive to customers. The tendency in the market is to get enough ventilation to significantly reduce humidity throughout the barn. PG&E agrees with CS that CapEx is the proper MAT. Once approved by CS our TR will	Per provided description of the project, the appropriate MAT is NR as this project involves measure installations where the existing equipment no longer meets current or anticipated needs or is being replaced due to normal remodeling or upgrading or replacement activities that are expected and undertaken in the normal course of life or business. The New Construction MAT is used where equipment is installed in either a new area or an area that has been subject to a major renovation, to expand capacity of existing systems, or to serve a new load. Please update the MAT to NR. In this scenario, the use of standard practice baseline (as used in PG&E's updated calculations) that provides a comparable level of service as installed measures is appropriate.

3	Please explain why existing workpapers including "VSD for Ventilation Fan, Agricultural" and "Ventilation Fan, Agricultural" are not applicable to these measures.	PA program rules	within 30 days of this disposition	For all our new fan & VFD projects including this one we will be using the workpapers savings. The work paper became effective on January of 2020, but it wasn't until a review in March that our Tech Reviewers started asking or paying attention to this. Historically, all fan & VFD projects have been submitted with custom calculations. Please see updated calculation files entitled: "PRJ - 02224463 PRE Deemed VFD Savings Calculations PLe.xlsx" and "PRJ - 02224463 PRE Calculations_REV1_CONF.xlsx". Once approved by CS our TR will update the savings calculations.	The revised savings calculation approach is appropriate. For deemed savings portion of the project, please cross-reference rated hp (fan vs motor) used in the calculations with what is used in the workpaper to make sure they are consistent. Submitted calculations are currently using fan rated hp.

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