

DOCKETED	
Docket Number:	18-IRP-01
Project Title:	Integrated Resource Plan
TN #:	227846
Document Title:	COV responses to AAEE questions and Standardized Tables values
Description:	<p>This file serves to satisfy the following request from Mr. Julio Gutierrez at the CEC:</p> <ol style="list-style-type: none"> 1. Provide estimated AAEE values for 2015 through 201 2. Provide AAEE values for 2018 through 2030 3. Provide clarification on values listed on the Standardized Tables
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Organization:	City of Vernon
Submitter Role:	Public Agency
Submission Date:	4/24/2019 6:00:06 AM
Docketed Date:	4/24/2019

Sandoval, Efrain

From: Sandoval, Efrain
Sent: Tuesday, April 23, 2019 2:58 PM
To: 'Gutierrez, Julio@Energy'
Cc: Alemu, Abraham
Subject: City of Vernon's responses to questions AAEE and values listed on the Standardized Tables

Mr. Julio Gutierrez,

This communication serves to satisfy the following requests:

1. Provide estimated AAEE values for 2015 through 2018
2. Provide AAEE values for 2018 through 2030
3. Provide clarification on values listed on the Standardized Tables submitted to the CEC

1. Estimated AAEE values for 2015 through 2018

Summary Energy Efficiency Data Saved FY 2010-18

	KWh
FY10-11	3,227,624
FY11-12	4,616,993
FY12-13	4,674,583
FY13-14	3,215,060
FY14-15	7,042,115
FY15-16	2,607,531
FY16-17	2,609,488
FY17-18	5,383,804

2. City of Vernon's AAEE values for 2018 through 2030.

Year	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
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Energy Efficiency
(KWh) 3,066,000 3,066,000 3,066,000 3,066,000 3,066,000 3,066,000 3,066,000 3,066,000 3,066,000 3,066,000 3,066,000 3,066,000 3,066,000

3. Explanation for values provided on Standardized Tables

Line 1 Retail Sales to end-use customers (column G below): this value was calculated by taking net energy for load (column E below) and adjusting for system losses

Line 3 Net energy for load (column E below): this value was calculated by first establishing a gross load forecast (column A below). The gross load forecast was then adjusted to compensate for energy efficiency (reduction - column B below), photovoltaic energy (reduction - column C below) and electric vehicle load (increase - column D below). The result of these adjustments is the value provided as net energy for load. The following formulas was used to determined net energy for load:

$$\text{Net energy for load (E)} = \text{Gross load (A)} - \text{energy efficiency (B)} - \text{photovoltaic energy (C)} + \text{electric vehicle (D)}$$

Line 4 Retail Sales to end-use customers (Accounting for AAEE impacts) (column H below): energy efficiency (column B below adjusted for system losses) was added to Line 1 (retail sales to end-use customers)

Line 5 Net energy for load (accounting for AAEE impacts) (column F): energy efficiency (column B below) was added to Line 3 (net energy for load)

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
Year	Gross	EE	PV	EV	Net energy for load	Net Energy for Load Accounting for AAEE)	Retail sales to end use customers	Retail sales to end-use customers (accounting for AAEE impacts)
2020	1,269,715	3,066	6,138	2,417	1,262,928	1,265,994	1,212,166	1,215,354
2021	1,273,376	3,066	8,327	2,986	1,264,969	1,268,035	1,214,125	1,217,314
2022	1,278,030	3,066	10,516	3,593	1,268,041	1,271,107	1,217,074	1,220,262
2023	1,283,488	3,066	12,705	4,227	1,271,945	1,275,011	1,220,822	1,224,011
2024	1,288,398	3,066	14,893	4,879	1,275,318	1,278,384	1,224,060	1,227,248
2025	1,292,707	3,066	17,082	5,543	1,278,102	1,281,168	1,226,732	1,229,921
2026	1,296,973	3,066	19,271	6,211	1,280,847	1,283,913	1,229,368	1,232,556
2027	1,302,218	3,066	21,460	6,878	1,284,570	1,287,636	1,232,942	1,236,130
2028	1,308,279	3,066	23,649	7,541	1,289,105	1,292,171	1,237,296	1,240,484
2029	1,314,531	3,066	25,838	8,196	1,293,823	1,296,889	1,241,824	1,245,013

2030	1,321,142	3,066	25,580	8,860	1,301,357	1,304,423	1,249,057	1,252,246
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Please let us know if you have any further questions.

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