



# Power Supply and Energy Services Report

Ingmar Sterzing, VP, Power Supply and Energy Services

August 21, 2017

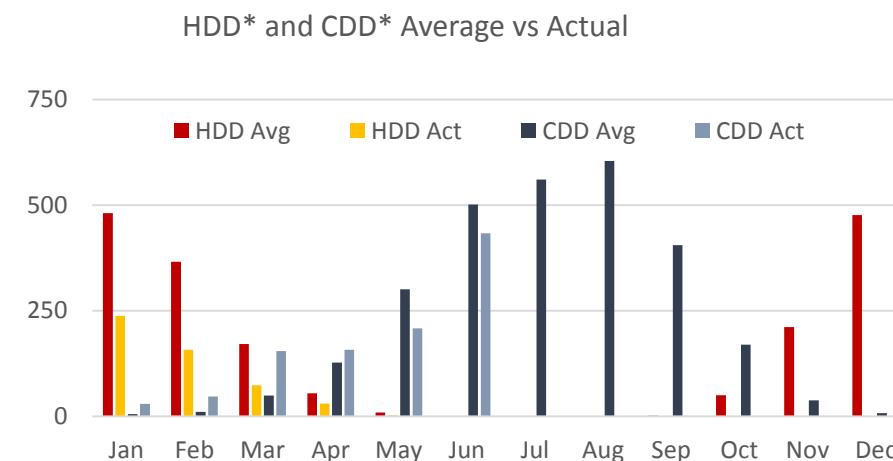
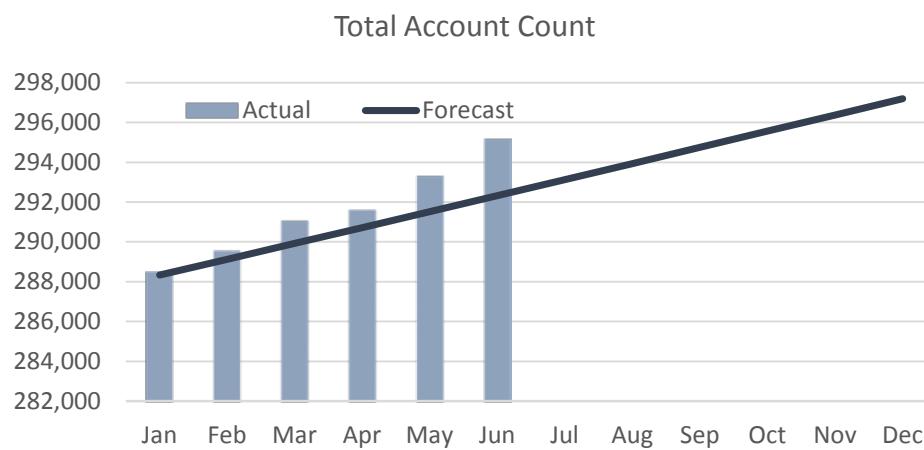
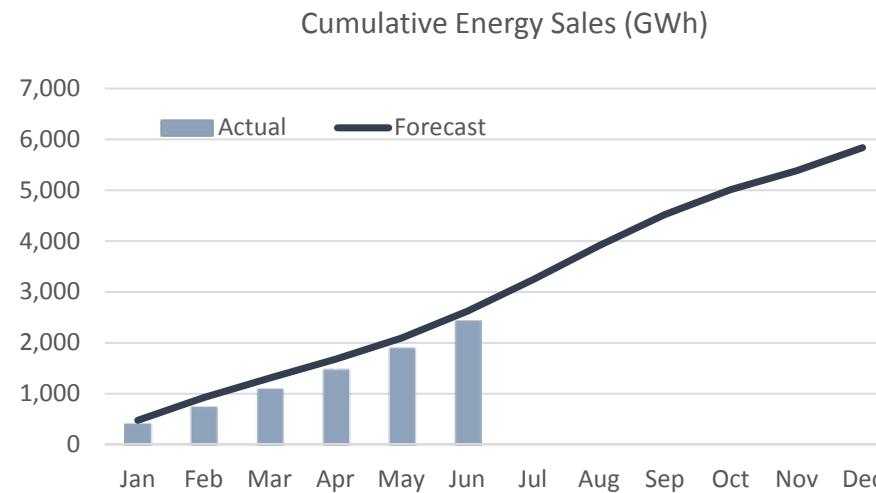
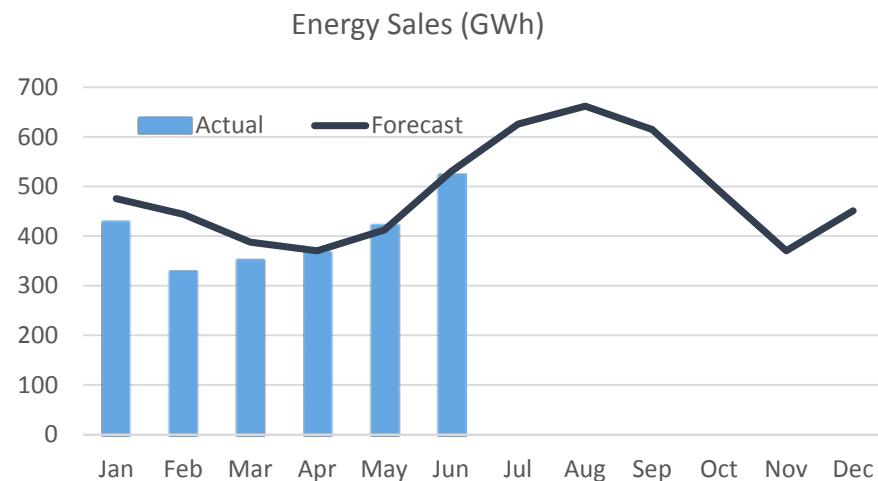
# Summer 2017 PEC/ERCOT 4CP Preliminary Results

	June	July	August	September	Average
Measured PEC Demand (MWs)*	1,369	1,333			1,351
ERCOT Peak (MWs)	67,759	69,647			68,703
Percentage (%)	2.02%	1.91%			1.97%
Date and Time	June 23 16:45	July 28 17:00			NA
<b>PEC 4CP Peak Demand Mitigation Measures</b>					
Active and Deemed Savings (MWs)	25.6	24.9			25.25
Peak Savings (%)	1.84%	1.83%			1.84%

\*Does not include 4CP results for Non-LCRA delivery points Friess, New Barksdale, and Rock Springs)



# PEC Energy Sales Summary for June 2017



# Energy Services Update for June 2017

	2016	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
<b>Energy Audits Performed</b>	<b>281</b>	21	22	19	17	38	62							179
<b>Interconnections Complete</b>	<b>354</b>	26	27	34	46	52	61							246
<b>Residential Units Installed</b>	<b>1256</b>	0	128	80	156	200	137							701
<b>Residential Rebates Monthly (\$k)</b>	<b>\$440</b>	0	41	25	49	65	44							224
<b>Residential Rebate Budget Remaining (\$k)</b>	<b>NA</b>	300	259	234	185	119	76							76
<b>Comm. Rebate Applications Approved</b>	<b>18</b>	0	3	1	3	4	1							12
<b>Comm. Rebates Monthly (\$k)</b>	<b>\$143</b>	0	24	1	15	5	2							47
<b>Commercial Rebates Budget Remaining (\$k)</b>	<b>NA</b>	200	176	175	160	155	153							153
<b>Empower Loan Applications Received</b>	<b>29</b>	0	1	1	0	4	3							9
<b>*Empower Loans Final Approval Monthly</b>	<b>10</b>	2	0	0	1	2	3							8

\* The Empower Loan Final approval is contingent upon approval of the interconnection and installation



# Rate Competitiveness - As of June 2017

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>PEC Residential Bill at 1,000 kWh Usage</b>	\$105.20	\$105.20	\$105.20	\$105.20	\$105.20	\$105.20						
<b>Texas Coop Average Bill at 1,000 kWh</b>	\$112.77	\$110.50	\$110.50	\$110.50	\$110.50	\$110.50						
<b>Texas Residential Average Bill at 1,000 kWh</b>	\$108.60	\$108.82	\$114.10	\$113.10	\$112.70	\$111.70						
<b>National Residential Average Bill at 1,000 kWh</b>	\$122.10	\$122.10	\$128.20	\$129.00	\$127.00	\$130.20						



# Residential Rate Option Participation – June 2017

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>Conventional</b>	166,465	165,993	167,237	166,423	167,192	169,412						
<b>Esaver</b>	18,425	18,799	18,919	19,047	19,156	19,405						
<b>Ebilling</b>	49,400	50,298	50,735	50,947	51,445	51,356						
<b>Edraft</b>	26,109	26,349	26,550	26,837	27,036	27,337						
<b>Time of Use</b>	-	21	24	38	43	56						
<b>Renewable Rider</b>	352	352	352	352	352	369						
<b>Interconnection Net Metering</b>	1,270	1,319	1,355	1,399	1,444	1,501						
<b>Water Wells</b>	1,968	1,971	1,967	1,969	1,966	1,967						



# Project Status June 2017

Project or Initiative	Status
Time of Use (TOU) Rates	<ul style="list-style-type: none"> <li>• Time of Use effective April 1, 2017</li> <li>• Development of Large Power TOU calculator under way</li> </ul>
Distributed Solar Project	<ul style="list-style-type: none"> <li>• Power Purchase Agreements (PPAs) for 12 projects totaling 12 MWs have been completed</li> <li>• Offers out for final 3 MW's at 2 sites, one an existing site (1 MW), one additional new site (2 MW)</li> <li>• Construction (lot clearing) started June 2017 with COD on first site 21 September 2017</li> </ul>
"Cooperative" Solar Rate Option	<ul style="list-style-type: none"> <li>• Final Tariff Amendment approved by PEC Board in May 2017</li> <li>• Tariff Effective date of February 2018</li> <li>• Implementation of metering, billing, and program management requirements underway</li> </ul>
Electric Vehicle (EV) Charging Pilot	<ul style="list-style-type: none"> <li>• Initiating first pilot installation in conjunction with Johnson City HQ remodel project</li> <li>• Tariff amendment presented to support installation of public charging stations with charging fee</li> </ul>
Bring Your Own Thermostat (BYOT) Program	<ul style="list-style-type: none"> <li>• Final evaluation and business analysis complete</li> <li>• Results indicate that stand alone, third party BYOT program is not cost effective at this time</li> <li>• Evaluating other options to integrate smart thermostats as part of PEC metering/communications upgrades</li> </ul>
Empower Loan Program	<ul style="list-style-type: none"> <li>• Revise loan guidelines to adjust requirement for 12 Mo. billing history and add car charging stations as a covered loan item along with other minor adjustments and improvements</li> </ul>
Large and Small Power Interconnected Tariff	<ul style="list-style-type: none"> <li>• Tariff amendment approved and will be effective July 1, 2017</li> <li>• System interconnections for five member's commercial scale systems already complete</li> </ul>
Power Supply and Energy Management Initiative	<ul style="list-style-type: none"> <li>• Draft policy prepared and implementation plan is underway</li> </ul>
Time of Use (TOU) for Interconnected Members	<ul style="list-style-type: none"> <li>• Technical and system upgrades are in development</li> </ul>
TCEQ Battery Storage Project	<ul style="list-style-type: none"> <li>• Limited Notice to Proceed (NTP) received from Texas Commission on Environmental Quality (TCEQ) to develop request for proposal (RFP) and align with existing Solar project</li> </ul>
Microgrid Marble Falls Operations Center Project	<ul style="list-style-type: none"> <li>• Project cancelled with AMS due to advanced stage of construction of PEC Northwest Operations Center and limited scale of the proposed micro-grid</li> </ul>





pec.coop