

SDG&E Generation Additions

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DOCKETED

14-IEP-1E

TN 73658

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What Has Been Achieved*

- Energy Efficiency: 96 MW
- New Roof Top Solar: 155 MW
 - Residential: 122 MW
 - Non-Residential: 33 MW
- Renewable Power: 1,235 MW
 - In San Diego and delivered over Sunrise Power Link
- Wellhead Escondido Repower
 - 10 MW Increase
- Pio Pico Contract approved
 - Final CPUC approval June 2014
 - Currently before State Court of Appeals
 - Contract on-line date of September 2015, could be delayed due to appeals
 - Will facilitate shutdown of 188 MW of 1960's era peaker plants

*Resources added or expected between January, 2012, when SONGs shut down and the end of 2014. Capacity values are nameplate

Renewable Additions	
<u>In San Diego</u>	
NRG Borrego Solar	26 MW
Sol Orchard Solar	14
Desert Green Solar	6
Otay V&VI Bio Gas	3
	49 MW
<u>IV Substation</u>	
Ocotillo Express Wind	265 MW
IV Solar	200
Camp Verde Solar	139
Csolar South Solar	130
Centinella Solar	175
SG2 IV Solar	150
	1,059 MW
<u>Delivered over Sunrise</u>	
Arlington Solar	127 MW

All-Source Local Reliability RFO

- CPUC Authorized SDG&E to procure 500 – 800 MW of local resources
 - Need reflects 339 MW of uncommitted incremental energy efficiency
 - Resources must be shown they are incremental to assumed additions
- SDG&E has received approval of its plans from the CPUC’s Energy Division’s: July 17th (Conventional) and July 22nd (Preferred Resources).
- Resource Authorization – up to 800 MW
 - Preferred Resources (and Storage): minimum of 200 MW (25 MW from Storage)
 - Fossil Resources: maximum of 600 MW
- RFO Timeline:
 - Released: September, 2014
 - Bids Due: January, 2015
- SDG&E filed Application A.14-07-009 on July 21 2014 requesting authority to enter into a long-term power purchase tolling agreement (PPTA) with the Carlsbad Energy Center Project.

Integrating Preferred Resources

Borrego Springs Micro Grid

Integrating 26 MW PV plant, 4.65 MWh of batteries, local generation and advanced controls for switching, protection and control capabilities to improve reliability and power quality.

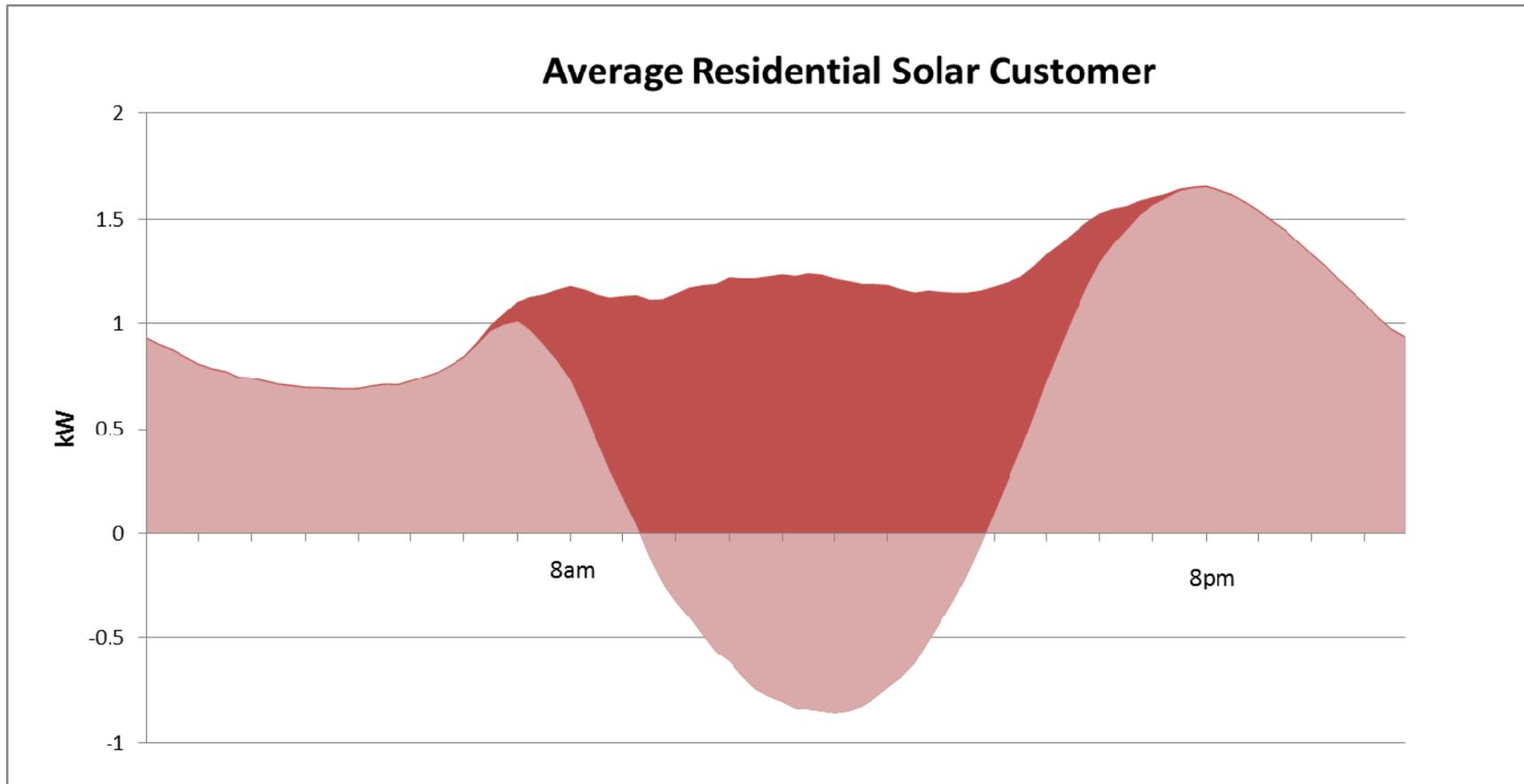


Port of San Diego Climate Action Plan

Partnering with the Port of San Diego and its tenants on an integrated portfolio of energy efficiency, demand response, distribution energy, and clean transportation to reduce GHG 10% by 2020, and 25% by 2035. Total load of approximately 45 MW, 236 million kWh annually.



Solar Doesn't Address Residential Distribution Peaks





San Diego Zoo Solar to EV Project

PV Smoothing and Peak Shifting from Battery

