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Southern California Electricity Reliability Workshop

Update on Western LA Basin Procurement

August 29, 2016

Overview of SCE's Western LA Basin LCR Procurement

- LTPP Track 1 and Track 4 Decisions authorized SCE to procure incremental resources to meet long-term local capacity requirements by 2021 due to the retirement of Once-Through Cooling plants and SONGS.
- SCE conducted a competitive RFO and executed agreements for the following mixture of preferred, energy storage and gas fired resources:

Product Category	Total Contracts	Max Quantity (LCR MW)
Preferred Resources (PRs) and ES		
EE	26	124.04
DR*	7	75.00
Renewable DG	4	37.92
ES	23	263.64
Total PRs and ES	60	500.60
GFG Resources		
GFG	3	1,382.00
Total PRs, ES, and GFG	63	1,882.60

LCR RFO Western LA Basin Contracts

- In November 2014, SCE filed an application seeking CPUC approval of the contracts selected through the LCR RFO.
- The CPUC issued its final decision on the LCR LA Basin application in November 2015, however applications for rehearing challenging the decision were subsequently filed.
- In June 2016, the CPUC issued a decision denying the applications for rehearing of the LA Basin decision and modifying the decision.
 - The decision was modified to require SCE to procure an additional ~170* MW to meet the minimum procurement requirements established in the Track 1 and 4 decisions.
- Due to the timing of the issuance of the decision on the applications for rehearing, online dates for some agreements were changes, however, the projects contracted for should be online by 2021.



Southern California Electricity Reliability Workshop SCE's Preferred Resources Pilot (PRP)

August 29, 2016

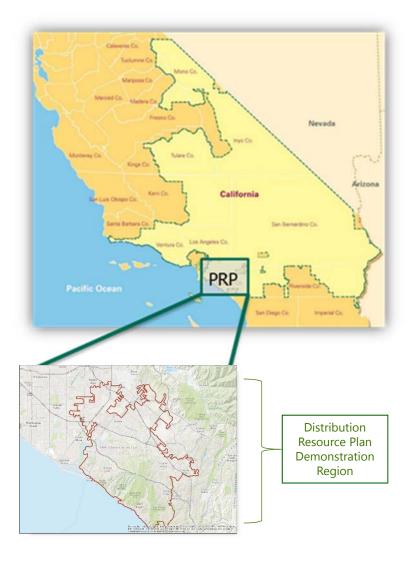
Preferred Resources Pilot (PRP) at a Glance

Objective

 Advance the use of preferred resources¹ (PRs) to meet reliability needs by determining if they can deliver <u>what is needed</u>, <u>when needed</u>, and for as <u>long as needed</u>.

Value

- Supports western LA basin reliability.
 - Resources are more effective in the southwestern portion of SCE territory.
 - Provides additional mitigation to already planned activities.
- Informs the development of the future grid, including the Distribution Resource Plan demonstration projects.
- Supports consumer use of clean energy technologies.
- Helps California meet its environmental goals.

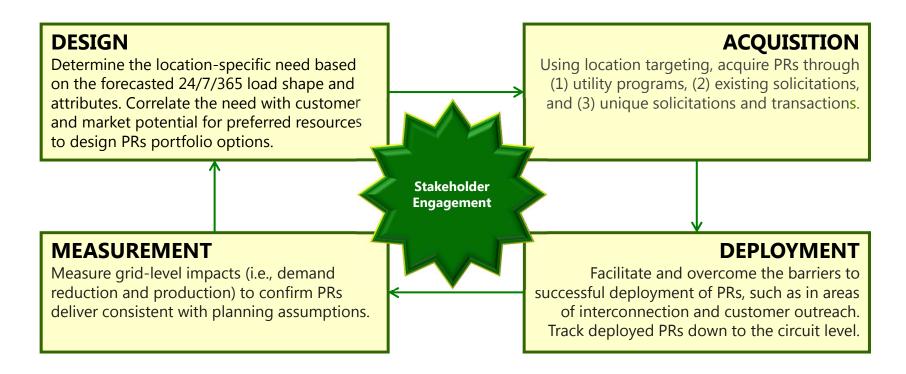


1 – Preferred Resources for purposes of the PRP include: Energy Efficiency (EE), Demand Response (DR), Renewable Distributed Generation (DG), & Energy

PRP Milestone and Project Approach

PRP Milestone 1 – to be evaluated early 2018

- Demonstrate the ability to <u>acquire</u> and <u>deploy</u> a mix of preferred resources that meet the 2022 forecasted local needs.
- Measure the performance capabilities of those resources to defer or eliminate the need for new gas-fired generation in the PRP region.



PRP Progress

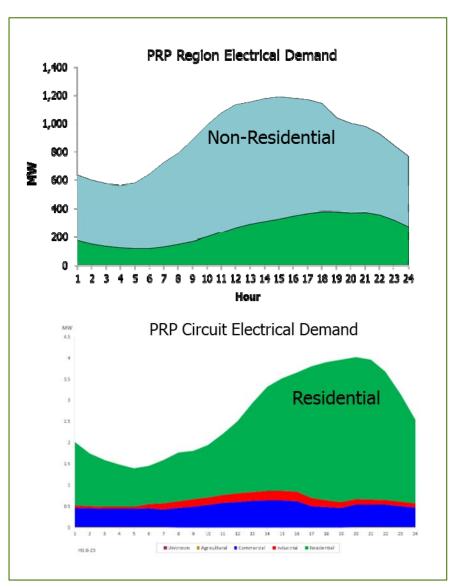
Resource Type	MW Deployed ¹	Measurement Status	MW Expected by YE 2017 ²	MW Expected by YE 2020 ²
EE	20.16	Programs: Measured using ex-ante valuesContracts: Pending deployment	37.53	43.53
PLS	0	Contracts: Pending deployment	5.76	25.60
DR (LR, ES)	32	 Programs: Measured using AMI data Contracts: Pending deployment 	49	49
DG ³ (PV, CHP)	41.8	 Programs: Measured with model benchmarked against small set of actual values Contracts: Pending deployment 	55.97	55.97
ES	< 0.1	Programs: TBDContracts: Pending deployment	7.50	7.50
Total	93.96		155.76	181.6

PRP RFO 2 is seeking 100 MW of additional preferred resources in the PRP area, which may increase the 2020 expected MW to 281.6 MW or more.

Notes:

- 1. Majority of data is as of July 2016. DR MW deployed is as of September 2015.
- 2. Future EE and DR from DSM programs or solar PV from natural adoption is not included in the 2017 or 2020 MW expected numbers.
- 3. DG deployed includes 19.6 MW from landfill project not under contract with SCE but interconnected in the PRP area.

- Locational Targeting
 - Resource attribute needs
 - Urban versus rural
- Customers
 - Finite customer set coupled with numerous offerings
 - Demographics Owner/tenant
 - Customer participation
 - Enhanced incentives
 - Testing new technology
- Grid Resource and Readiness
 - Circuit level EE
 - Behind the meter (BTM) resource performance
 - Infrastructure assessment

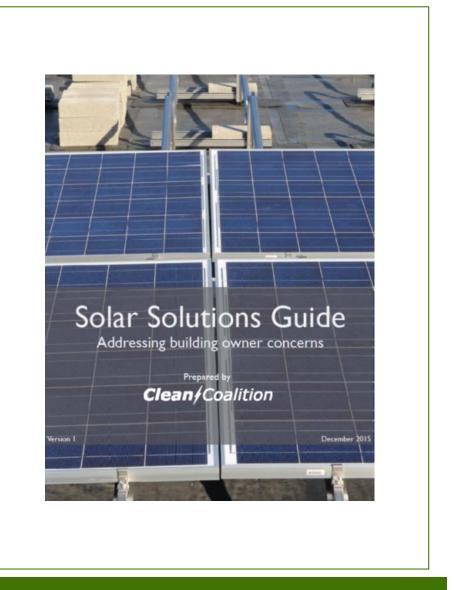


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Location specific request for offers specify substations and circuits.

CIRCUIT	DELIVERY HOURS	
Euro	12:00:00 – 14:59:59	
Guilder		
London	17:00:00 - 18:59:59	
Myford	18:00:00 – 20:59:59	
Muirlands		
Elden		
Hines		
Magazine		

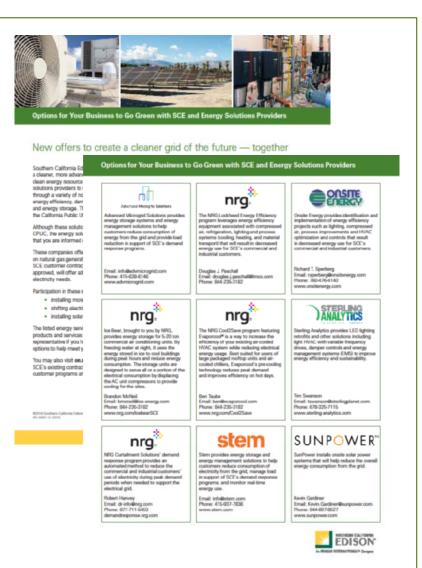
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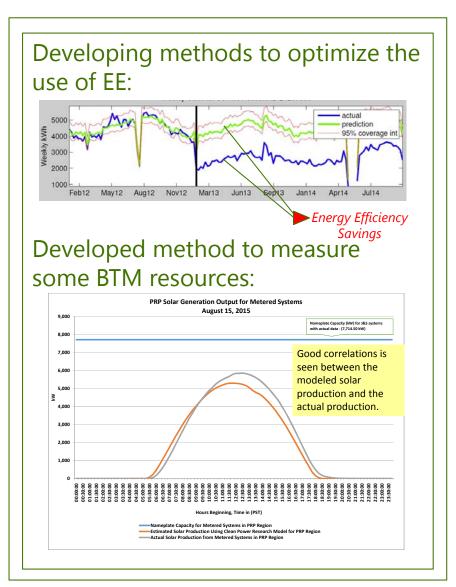
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PRP Region Offers

- Owner direct incentive process allows building owners to apply directly for rebates without going through the Tenant (SCE customer).
- Locational incentive adder for custom EE projects and no threshold.
- LED tube retrofit offers new, lower-cost LED lighting.

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Next Steps

- Complete PRP RFO 2 and seek CPUC approval of executed contracts.
- Continue acquisition of resources through DSM programs.
- Once contracted resources are on-line, reporting systems will be completed built to capture and report MW generation and savings.