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Energy for What's Ahead℠

Preferred Resources Reliability Contributions: Southern California and PRP Region Update

2017 IEPR Joint Agency Workshop

May 22, 2017

California Public Utilities Commission (CPUC) decision makers in attendance, please be advised we will be discussing substantive issues in open proceedings pending before the CPUC. If you wish to stay and listen, please let us know you are here so we can file an ex parte notice. If you prefer to leave, please return to this meeting room after the portion of this meeting ends.

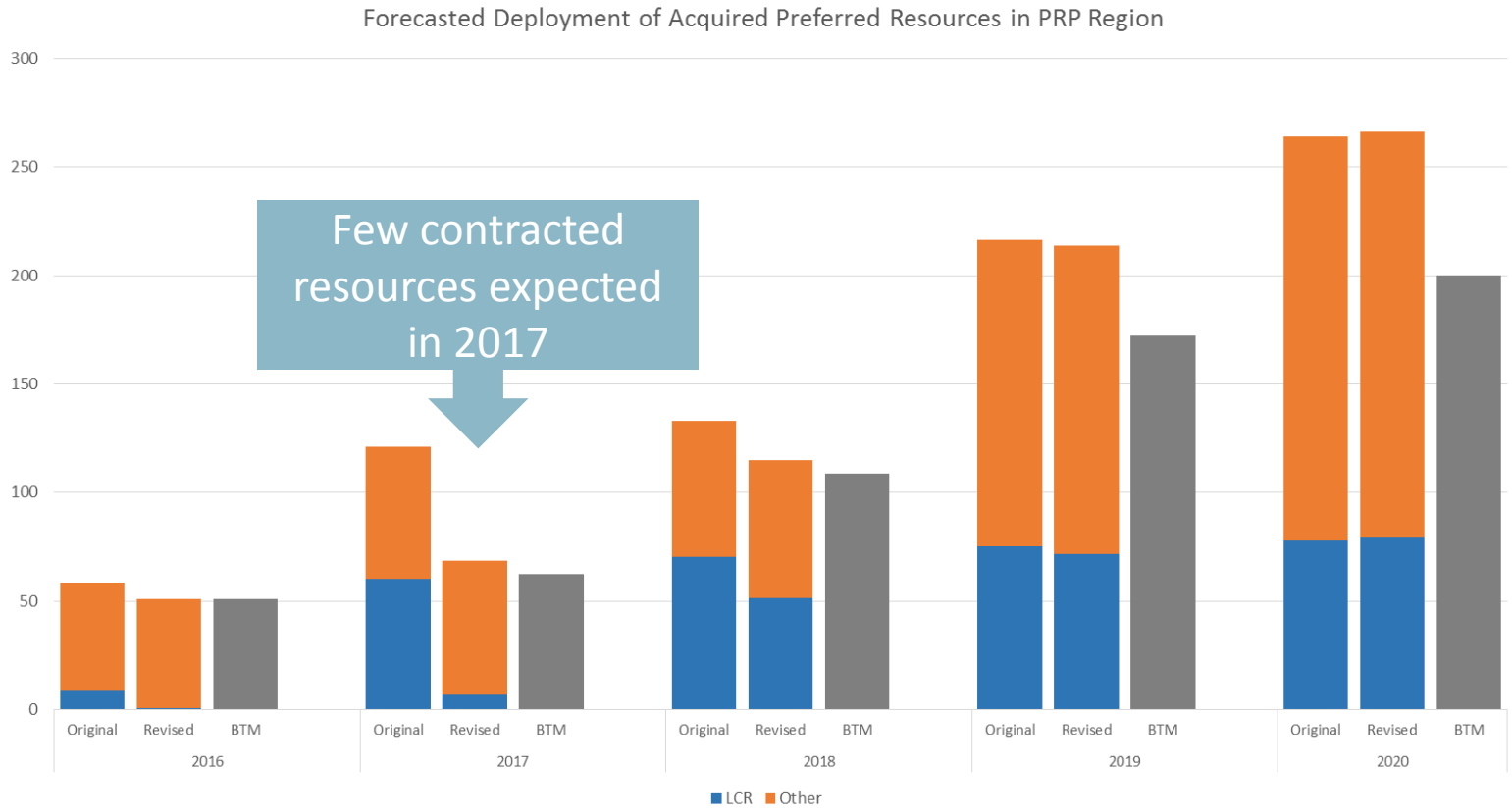
Preferred Resources and Energy Storage Capacity

	Resources	Procurement Source	Procured (MW)		Deployed (MW)	
			Southern CA	PRP Region	Southern CA	PRP Region
Preferred Resources (PRs)	Energy Efficiency/Permanent Load Shift	Local Capacity Requirements (LCR)	162	49	0	0
	Demand Response (Load Reduction and or Energy Storage)	LCR	140	17	3	0.675
		PRP RFO 2	55	55	0	0
	Solar Photovoltaic (PV) Distributed Generation	LCR	50	12	0	0
		Renewables Portfolio Standard	13.75	0	0	N/A
	In-Front-of-the-Meter Energy Storage (ES)	LCR	100	0	0	N/A
		ES RFO	1.3	0	0	N/A
		PRP RFO 2	60	60	0	0
		Aliso Canyon	22	2	22	2
		Utility Owned	42.4	0	42.4	0
	Hybrids (PV + ES)	PRP RFO 2	10	10	0	0
		Total	**656.45**	**205**	**67.4**	**2.675**

Deployment of LCR procured preferred resources lags the original in-service date.

Totals from 2014 through 4/30/2017

PRs Deployment Schedule in PRP Region



- **Progress on validating the performance of preferred resources**
  - Few available resources have limited ability to advance measurement
    - Demand Side Management measurement tied to programs; delivery standards not firmly tied to grid capacity delivery
  - Subject to deployment staying on track, SCE expects to provide more insights on performance of PRs after summer of 2018

Note: LCR contracts in the PRP region were schedule to be on line prior to the broader W-LA Basin. The data shows the initial operating dates and final completion build-out date based on the LCR contracted developers' revised schedule. Other includes DSM, PRP RFO 2, Aliso Canyon, utility owned ES, and GRC pilots.

Preferred Resources Acquisition Insights

- Demand Side Management programs instrumental in early deployment of PRs; additional grid measurement needed
- Competitive solicitations can be largely resource agnostic unless there are certain grid constraints
- Majority of resources in competitive solicitations include an energy storage component
- Contract provisions need to anticipate future grid needs and should allow for:
  - local use of resources when there is a mismatch between system and local needs
  - updates to monitoring and communication system interface as utility systems evolve
  - product design that meets grid parameters
- Need to explore methods to:
  - control cost of circuit based contracted Distributed Energy Resources (DERs)
  - effectively engage customers in adoption of behind-the-meter resources

SCE's Next Steps

- Take supportive actions with third parties to improve the deployment rate of contracted preferred resources
- Inform the emerging modern grid standards with DERs performance data
- Provide insight about DER locational value
- Establish means to operate an integrated portfolio of DERs
- Continue to share lessons learned