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Docket Number:	17-IEPR-12
Project Title:	Distributed Energy Resources
TN #:	220577
Document Title:	IEPR Workshop on Barriers to DR
Description:	8.8.17 Presentation by Mona Tierney-Lloyd of EnerNOC
Filer:	Raquel Kravitz
Organization:	California Energy Commission
Submitter Role:	Commission Staff
Submission Date:	8/7/2017 11:31:59 AM
Docketed Date:	8/7/2017



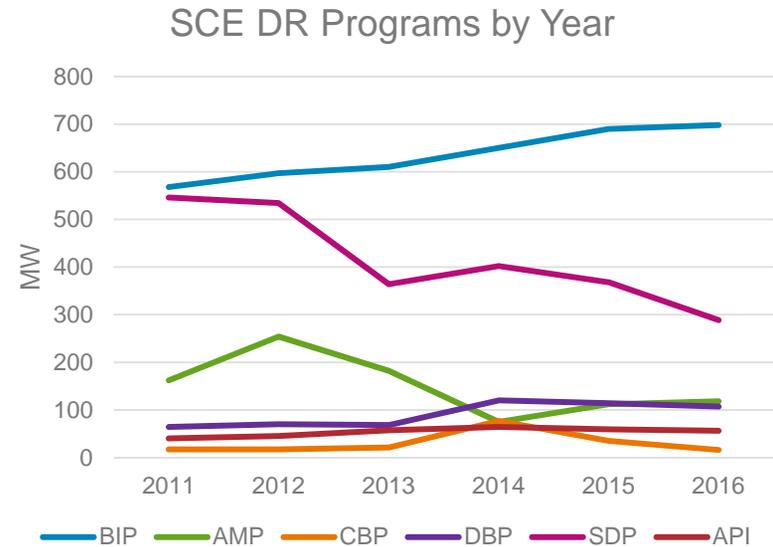
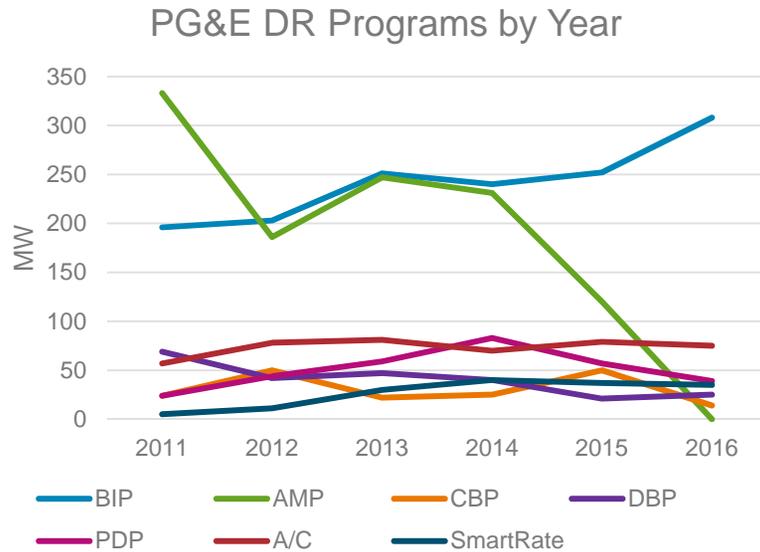
IEPR Workshop on Barriers to DR

CEC

August 8, 2017

How Are We Doing in Terms of Reaching DR Goals?

DR Participation is Declining



Data from December Monthly IOU Reports, for August Ex-Ante

DRAM

	2016	2017	2018	2019
PG&E	20	56	80	90
SCE	22	56	89	99
SDG&E	2	6	14	14
TOTAL	42	118	183	203

What Barriers are Inhibiting Expansion of DR?

What do we want DR to do?

- Uncertain Market Structure/Frequent Rule Changes
 - Failure to incorporate DR into planning
 - Integration into CAISO; Devaluation of Load Modifying Resources (LMR)
 - Elimination of DR Programs while DRAM is a pilot, uncertain growth opportunity
 - Complexities of integration (rules)
 - Significant regulatory burden and complexity
 - Inconsistencies between CAISO and CPUC rules
 - Program requirements and valuation
 - Frequent changes in DR program requirements
 - Notification times; local dispatch; # of dispatches
 - Significant penalties

Where Should We Focus Our Efforts Near Term?

- DRAM
 - Program Review and Improvements (Transparency of products)
 - Path to growth
- Data Access
- Baselines
- Resolve local RA requirements
- Better coordination between CPUC and CAISO
- Competitive parity

What are the Significant Issues We Face in 5-10 Years?

- Changing Grid Needs
 - Defining services, value and monetization (market signals)
- DER Integration (transmission and distribution)
 - Combinations of DERs (RA value)
- Procurement (Where will DR resources be procured?)
- CCAs
- Residential participation
 - Scale
 - Ease (data access)

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