DOCKETED						
Docket Number:	21-DR-01					
Project Title:	Supply Side Demand Response					
TN #:	248513					
Document Title:	Presentation - Item 10 - Qualifying Capacity of Supply-Side Demand Response Final Report					
Description:	N/A					
Filer:	Donnie Cox					
Organization:	California Energy Commission					
Submitter Role:	Commission Staff					
Submission Date:	1/24/2023 1:54:18 PM					
Docketed Date:	1/24/2023					

Item 10: Qualifying Capacity of Supply-Side Demand Response Final Report

January 25, 2023 Business Meeting



Erik Lyon Advisor to Vice Chair Gunda



Benefits to Californians

Demand Response (DR) provides:









"CEC is requested to develop recommendations for a comprehensive and consistent [measurement and verification] strategy, including a **new capacity counting methodology for DR** addressing *ex post* and *ex ante* load impacts" D.21-06-029

"The CEC Working Group should continue to develop longterm recommendations, consistent with the adopted Reform Track [hourly slice-of-day] framework" D.22-06-050



Slice-of-Day Reporting Format

Hour	January	February	March	April	May	June	July	August	September	October	November	December
15	_	_	_	_	0.0	0.0	0.0	0.0	0.0	0.0	0.0	_
16	_	_	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	_
17	_	_	0.0	0.0	46.4	86.6	89.2	91.8	89.6	82.3	65.1	_
18	_	_	16.8	52.5	36.2	74.6	80.0	84.1	79.5	74.4	47.9	_
19	_	_	15.1	39.6	24.9	66.3	71.2	77.5	70.0	66.0	22.7	_
20	_	_	9.5	18.1	11.4	44.2	53.0	59.5	49.1	38.9	5.3	_
21	_	_	0.4	5.3	2.3	23.8	35.0	37.5	31.9	18.1	1.3	_
22	_	_	0.0	4.5	0.0	24.7	41.4	40.8	39.2	19.9	8.3	_
23	_	_	0.0	-0.1	0.0	-7.4	-14.4	-10.9	-13.5	-5.9	-4.7	_
24	_	_	_	0.0	_	-1.7	-4.3	-4.6	-6.6	-2.8	-1.8	_



Current Approach to DR Capacity



Ex post analysis of load impacts in previous years



Adjust past performance to match expected future performance



Account for projected enrollment and customer composition



Forecast portfolio ex ante load impacts for upcoming year under planning assumptions



CPUC staff review, adjust, and approve Qualifying Capacity



Current DR Capacity Issues



Methodology: Variability in interpretation of Load Impact Protocols; difficult to assess reasonableness



Incentive Mechanisms: Penalties for underperformance not applicable to or appropriate for DR



Process: Onerous, expensive, opaque, and slow



Working Group Proposals

Adaptations of Current Approach

- California Large Energy Consumers
 Association
- 2. Demand Side Analytics and San Diego Gas & Electric
- 3. OhmConnect*

Incentive-Based Approaches

- 4. California Efficiency + Demand Management Council
- 5. California Energy Commission Staff

*Reporting requirements only



Recommended Approach

Adopt an incentive-based Qualifying Capacity approach



All other proposals continuation of current approach



Performance-based incentive mechanism previously recommended by CPUC Energy Division and ISO Department of Market Monitoring



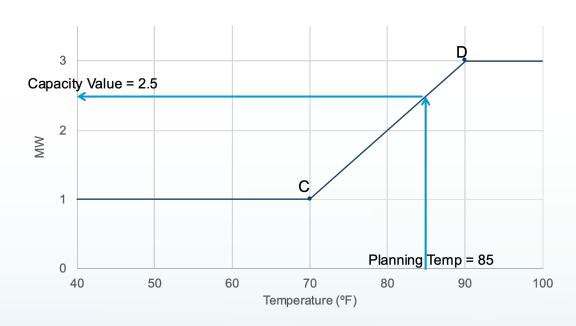
Reduce burden on DR providers and CPUC staff



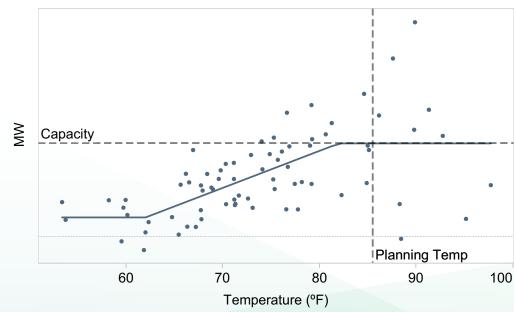
Recommended Methodology

Adopt the Qualifying Capacity counting method and incentive based on CEC proposal

Ex Ante Capabilities:



Ex Post Impacts:





Future Considerations



Penalty Implementation

- CPUC recommended to implement
- May be appropriate for California ISO to implement if appropriate alternative to RAAIM is adopted



Supplemental Reporting Requirements

CPUC may desire additional documentation of resource capabilities



California ISO Actions

Exempt DR from RAAIM