

Load Impact Evaluation: *Aggregator Programs*

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DRMEC Spring Workshop

April 26, 2011

Aggregator DR Programs

- ❑ Features of programs
- ❑ Enrollment
- ❑ Ex-post load impacts (2010)
 - Load impacts by program & type
 - Concentration of load impacts
- ❑ Ex-ante load impacts

Aggregator Programs (CBP)

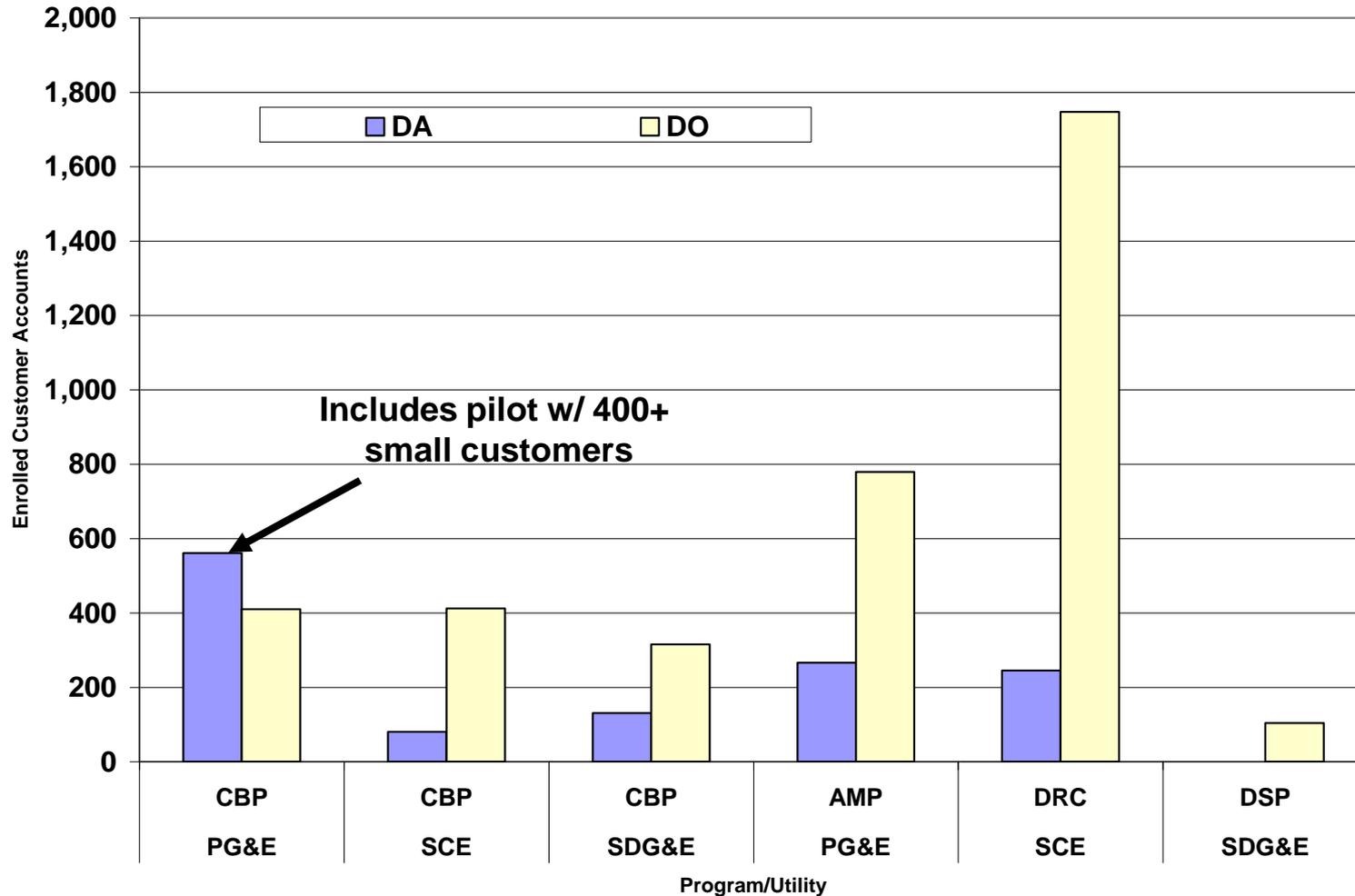
- Capacity Bidding Program (CBP)
 - Statewide tariff program
 - Capacity (\$/kW) and energy (\$/kWh) payments for load reductions
 - Customers nominate load reductions (kW) monthly
 - Product-type options
 - Day-ahead (DA) or Day-of (DO) notice
 - Event windows (1-4; 2-6; 4-8)
 - 6 to 8 aggregators for each utility (a few are individual customers)

Aggregator Programs (Contract-Based)

- ❑ Aggregators contract w/ utility for monthly load reduction commitments & product types (DA and DO)
 - Make DR arrangements with customers
- ❑ *Aggregator Managed Portfolio (AMP) – PG&E*
- ❑ *Demand Response Resource Contracts (DRC) – SCE*
- ❑ *Demand Smart Program (DSP) – SDG&E*

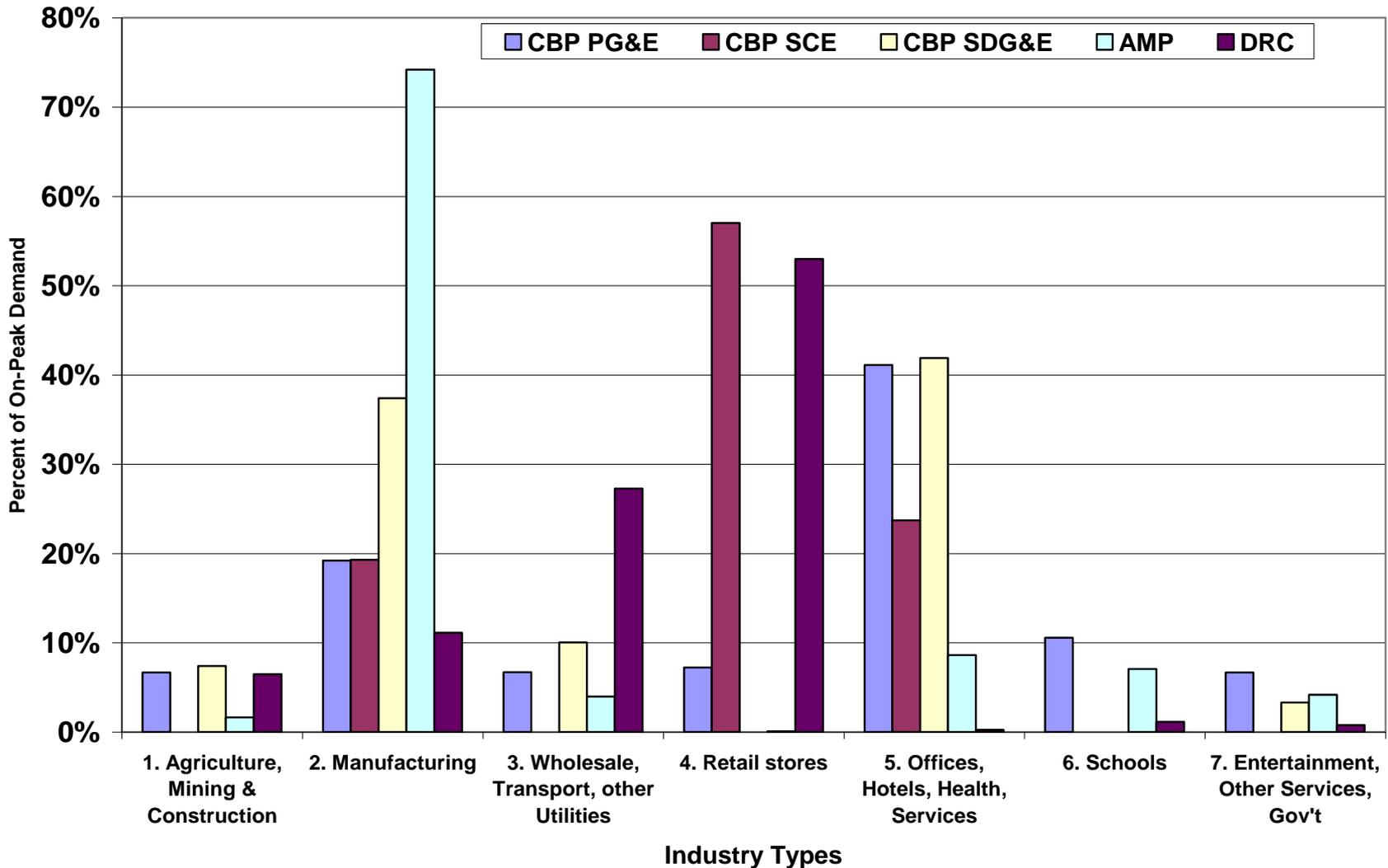
Enrollment by Program & Product Type

Number of Customer Accounts



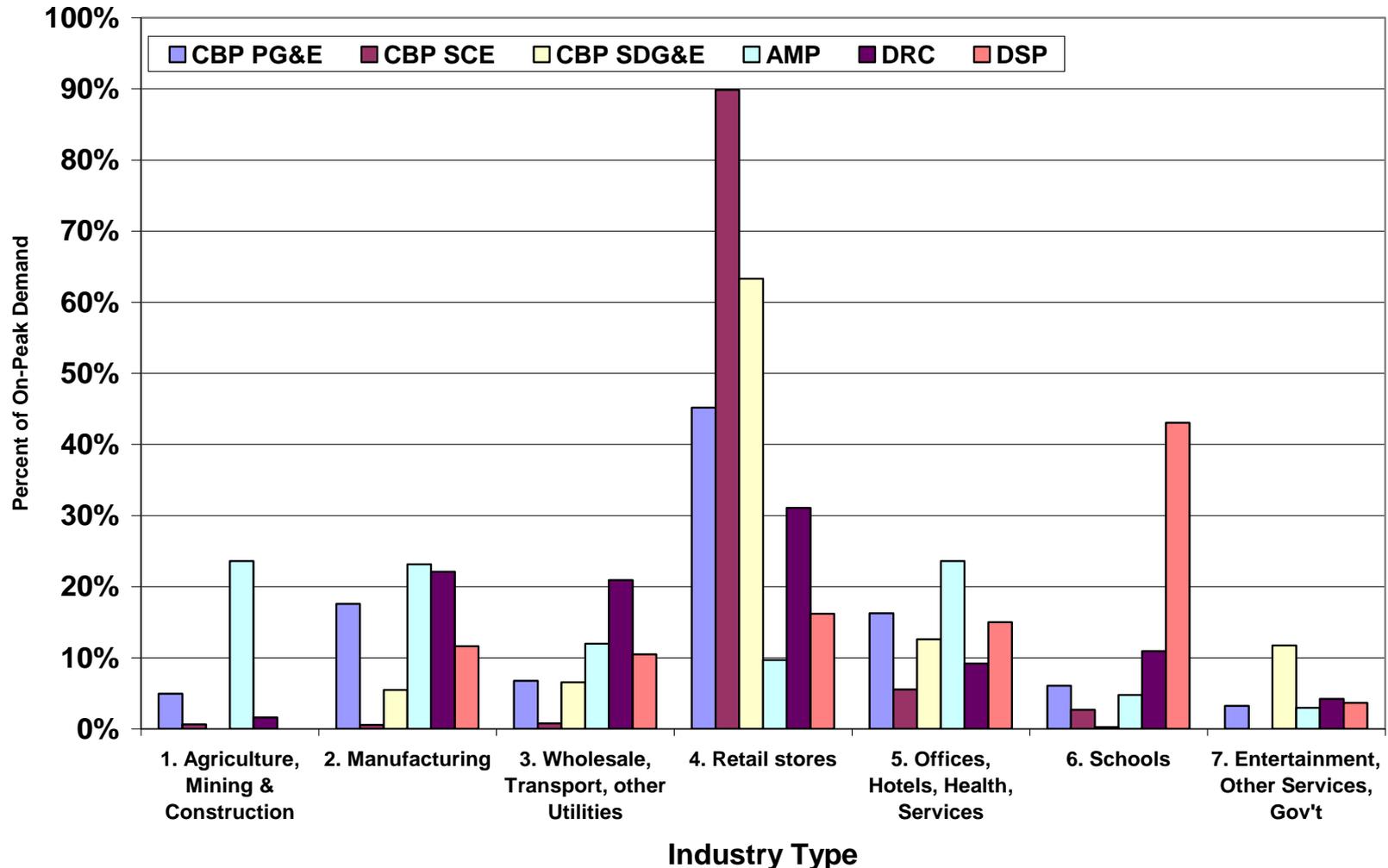
Enrollment by Industry Type – DA

Percent of On-Peak Demand



Enrollment by Industry Type – DO

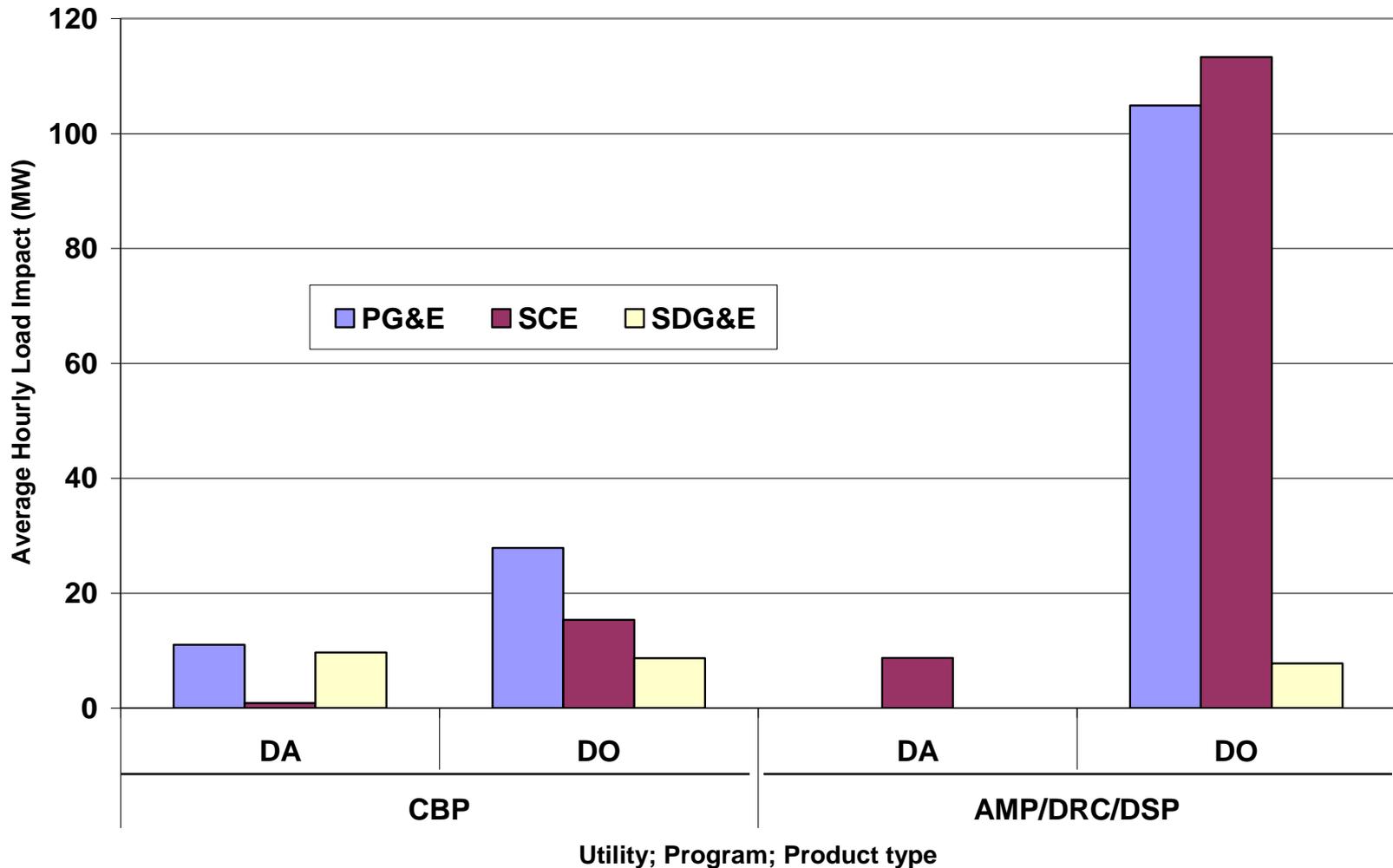
Percent of On-Peak Demand



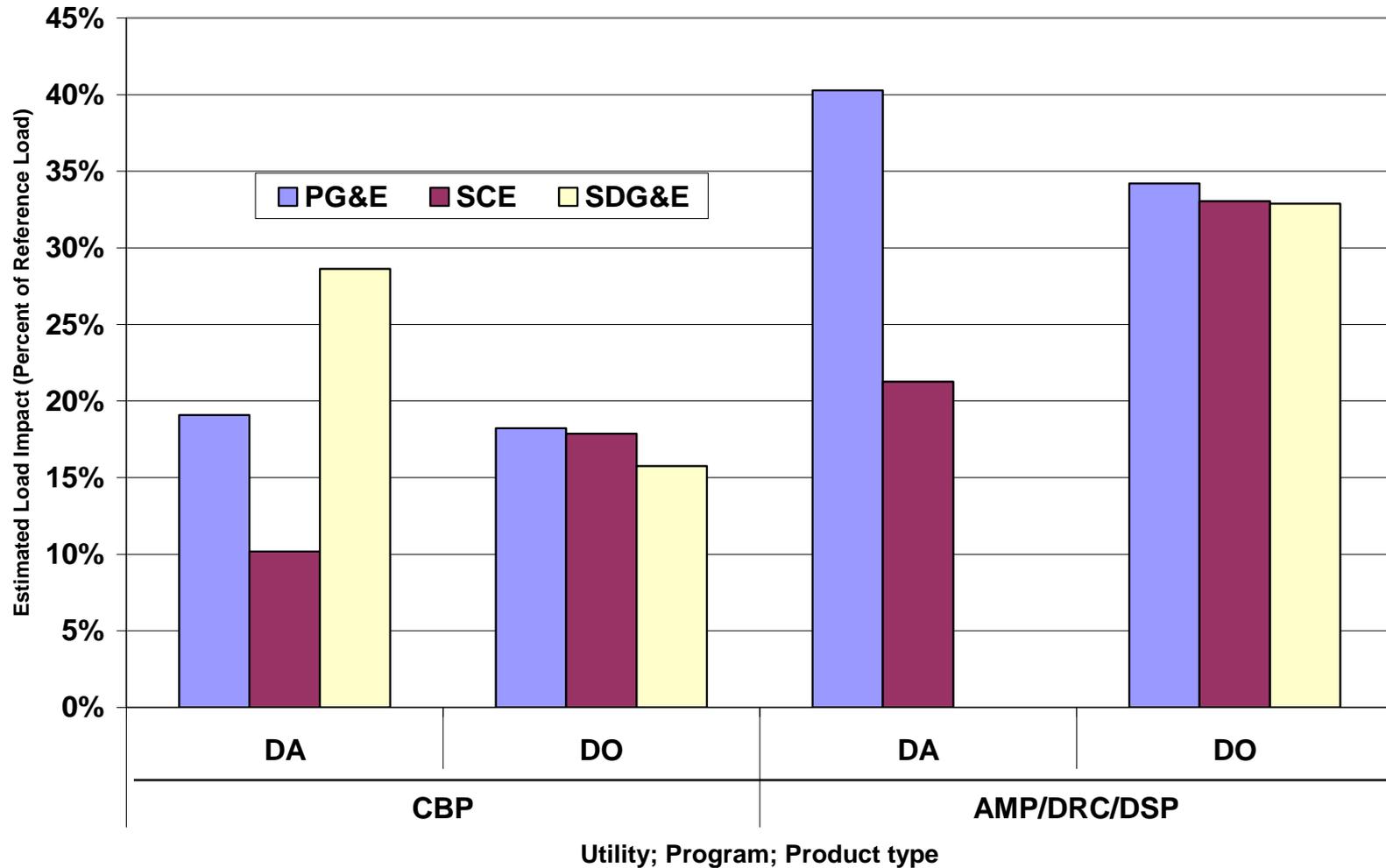
Numbers of Events – 2010

	CBP			AMP	DRC	DSP
	PG&E	SCE	SDG&E	PG&E	SCE	SDG&E
DA	7	16	7	1	2	-
DO	7	9	12	2	2	10

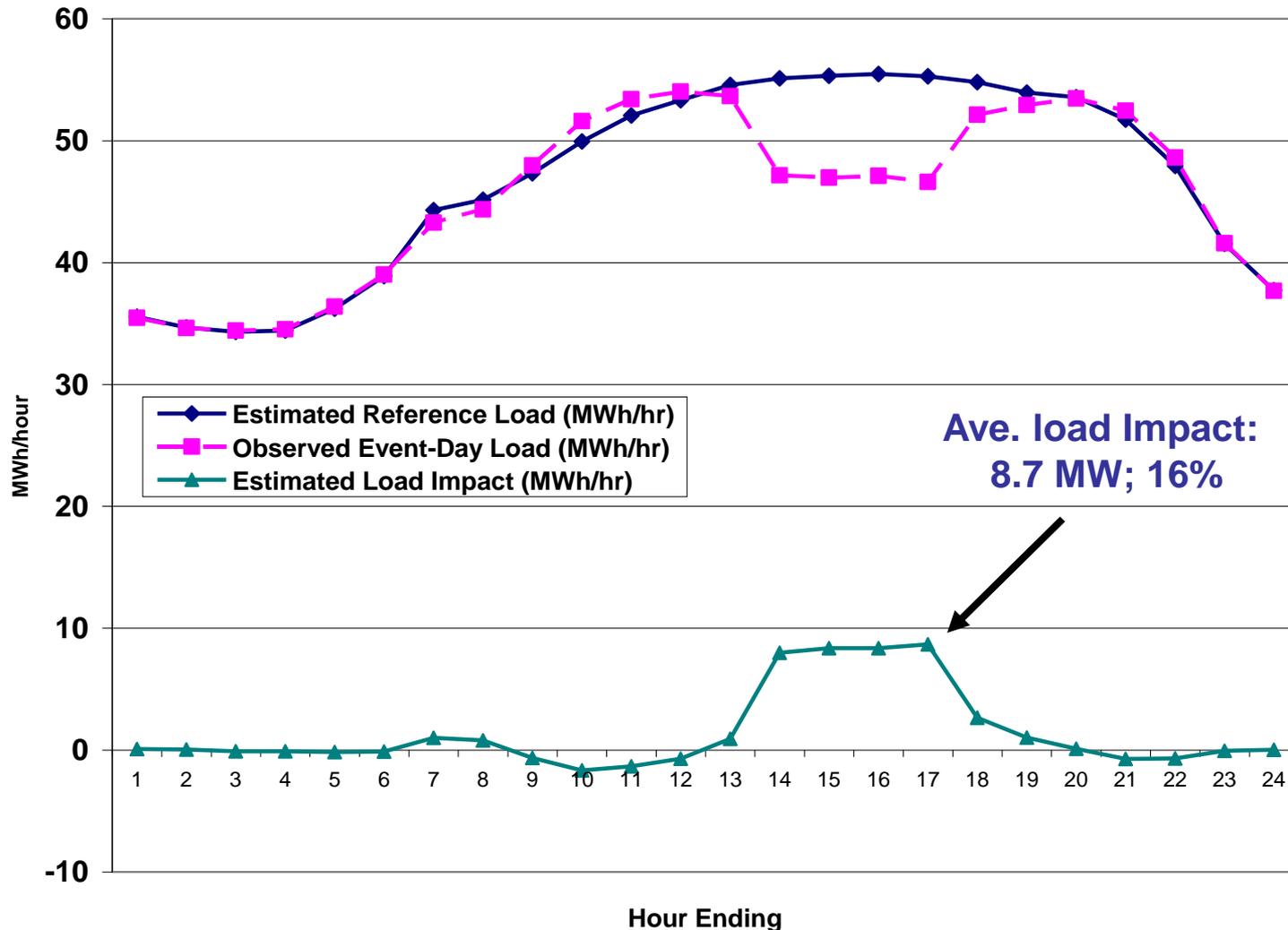
Aggregator Ex-Post Load Impacts (Typical Event – Average Hourly MW)



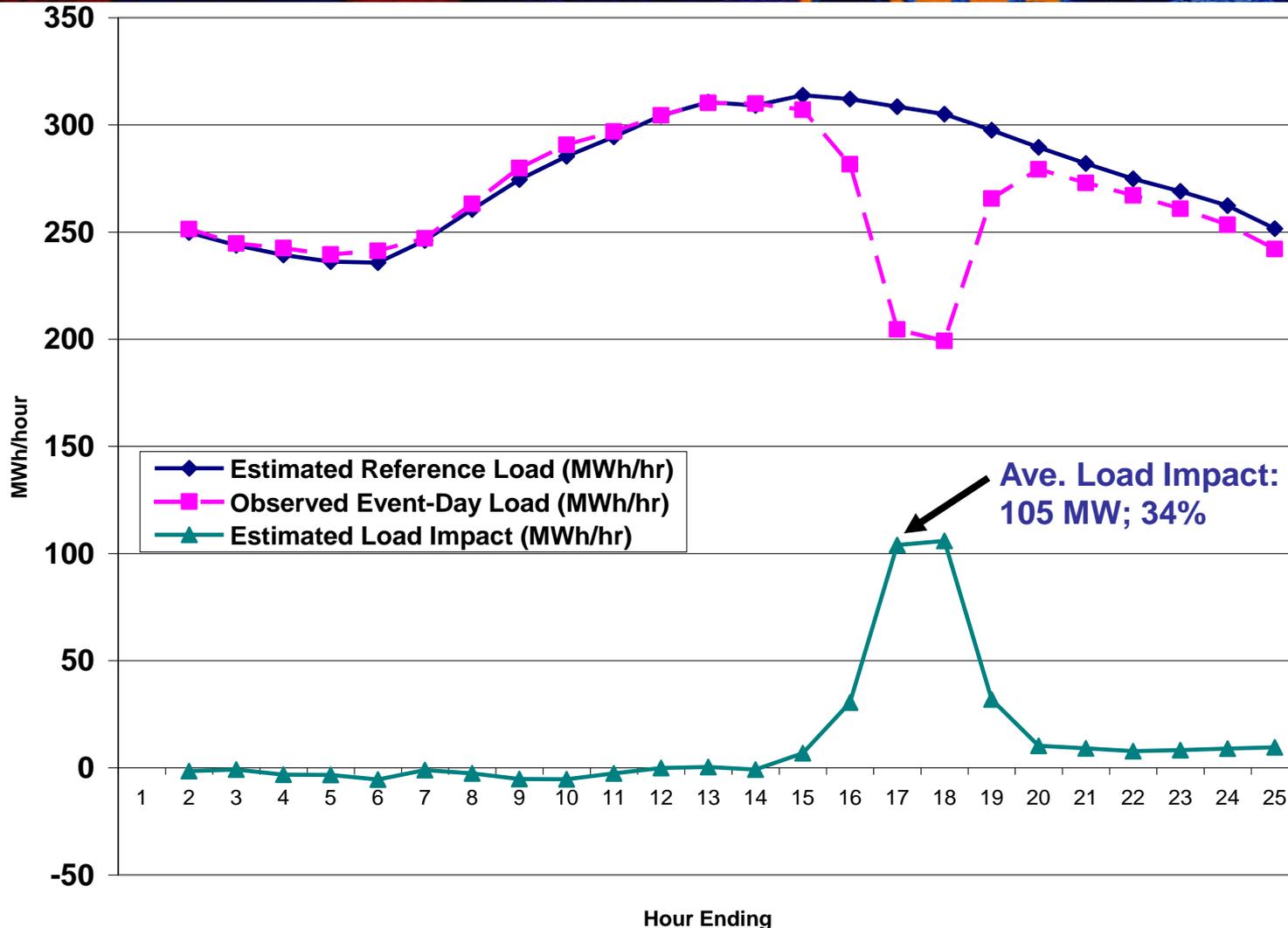
Aggregator Percentage Load Impacts (Typical Event)



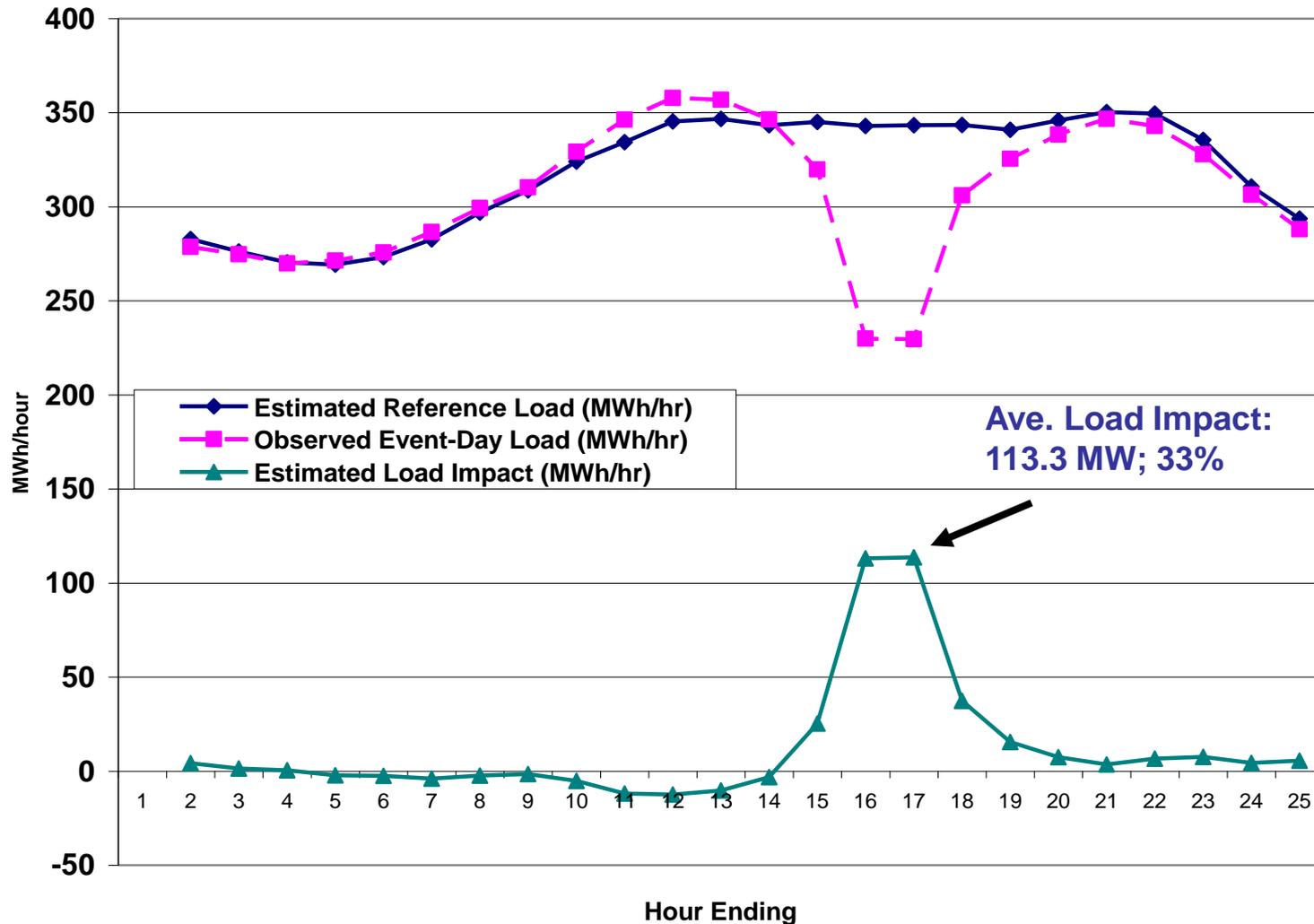
SDG&E CBP-DO Load Impacts (Average of 12 Events)



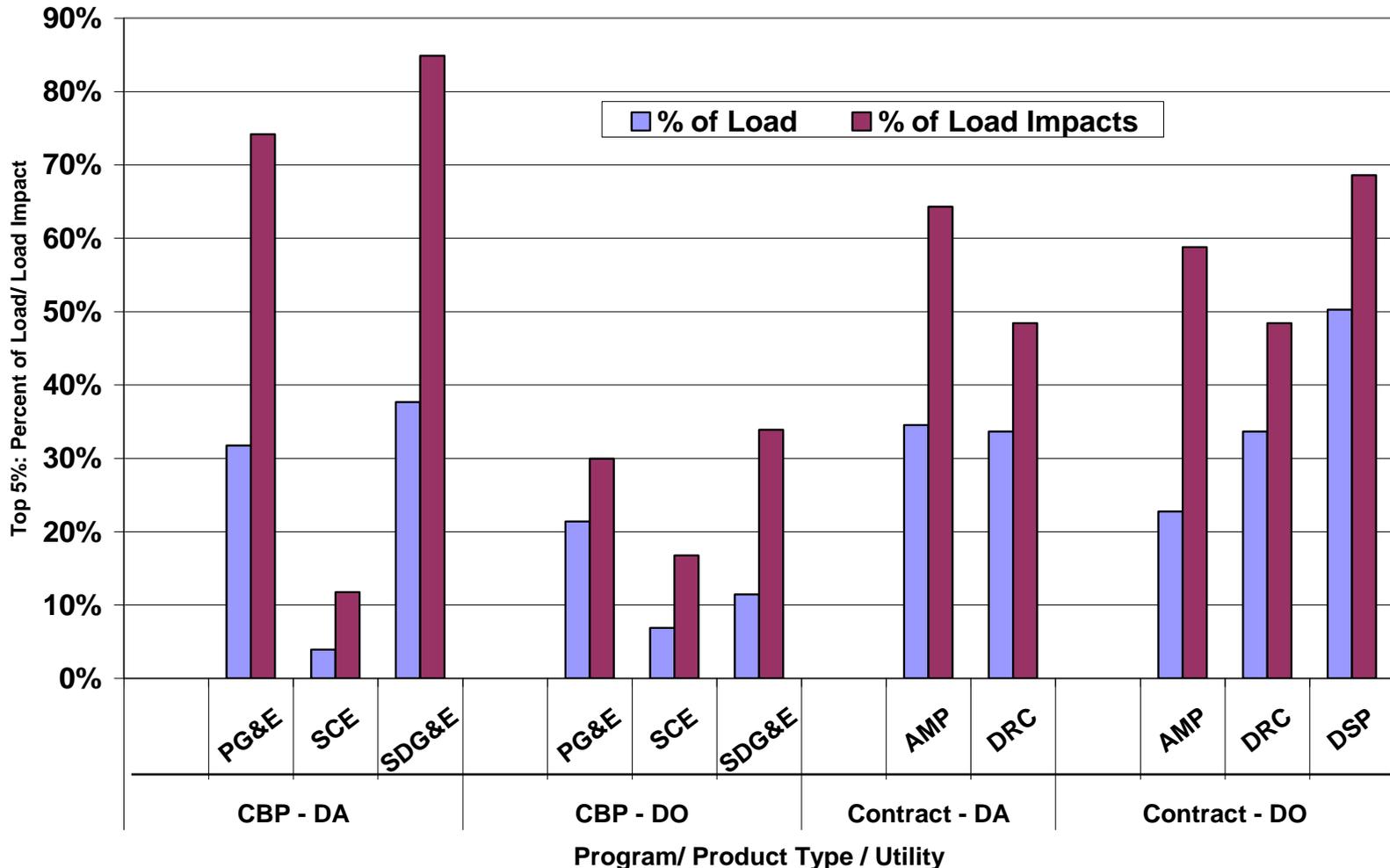
PG&E AMP DO Load Impacts (Test event)



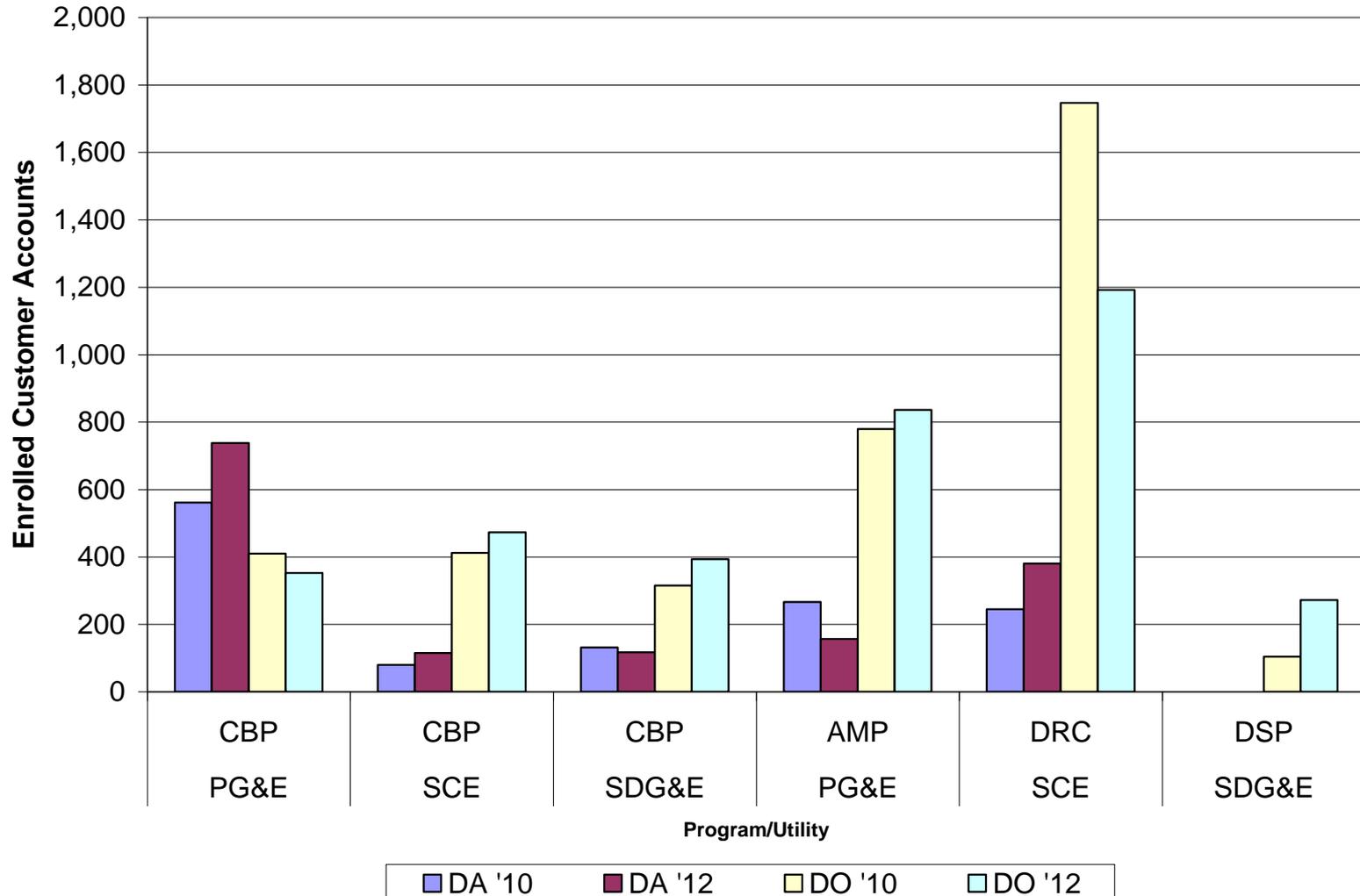
SCE DRC DO Load Impacts (August 25 event)



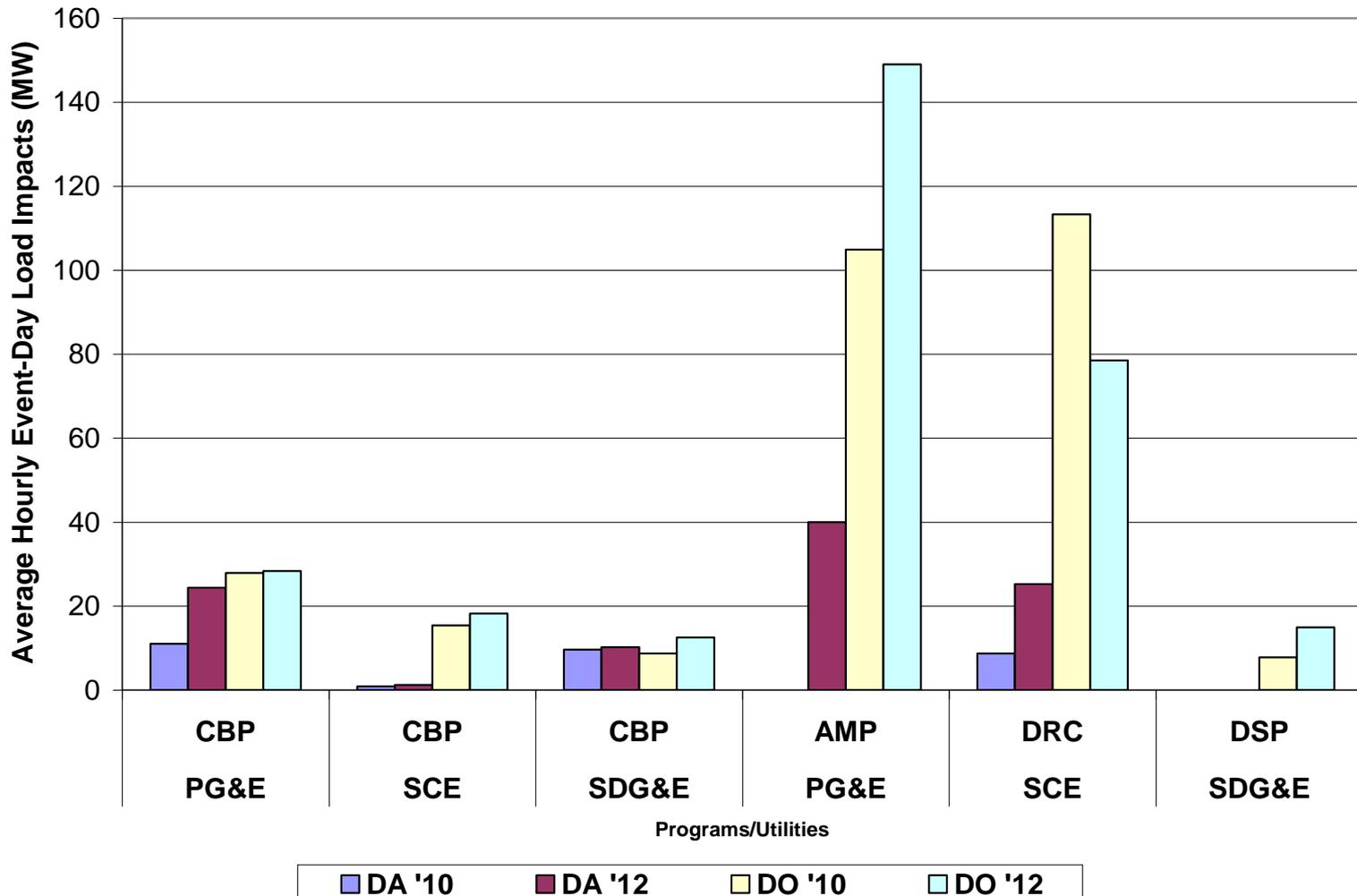
Concentration of Load Impacts (Top 5 percent of accounts)



Enrollments: Ex-Post & Ex-Ante (2010 and 2012)



Load Impacts: Ex-Post & Ex-Ante (2010 and 2012)



Questions?

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