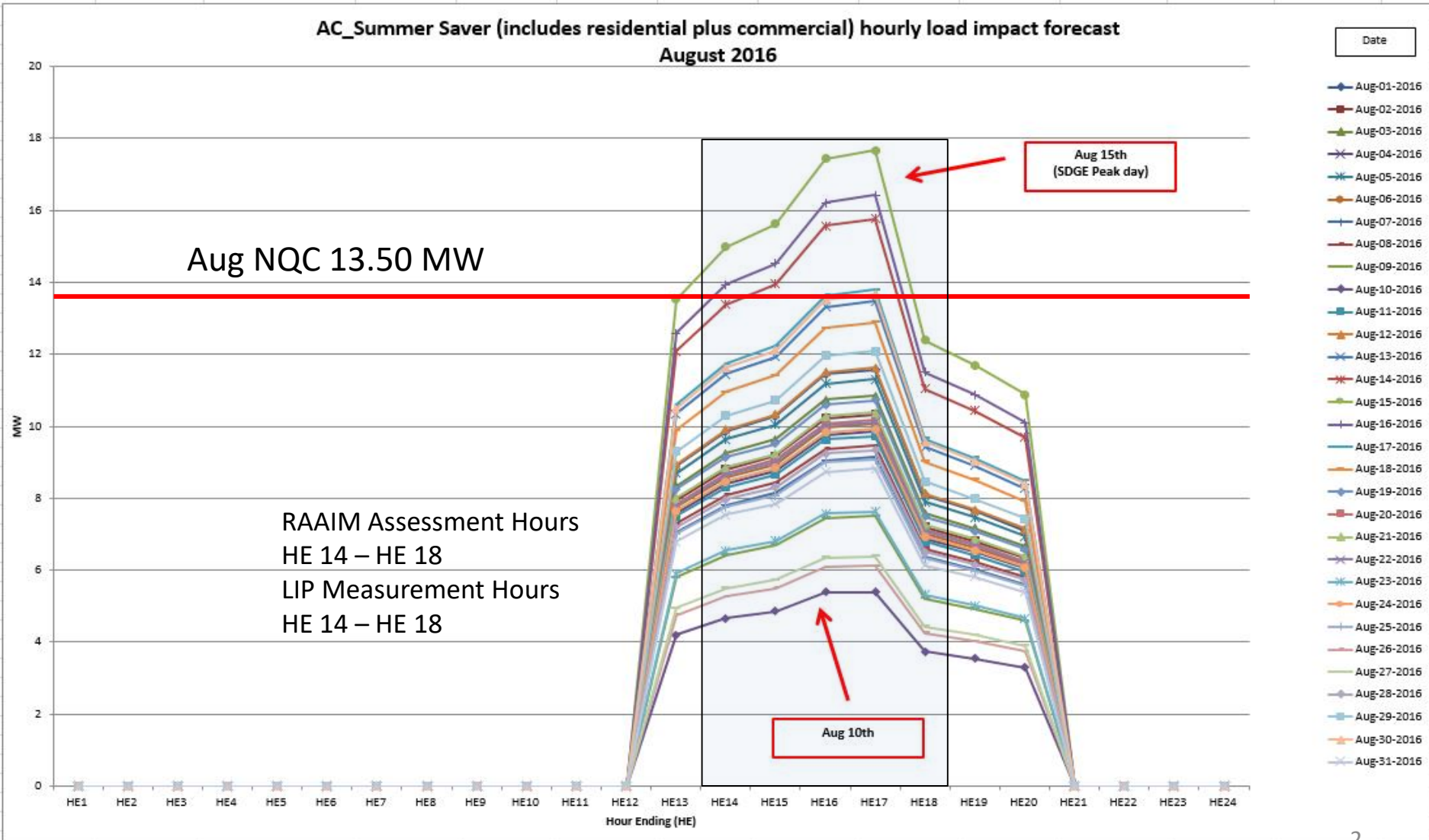




CPUC RA Workshop

November 7, 2017

SDG&E Summer Saver forecast August 2016

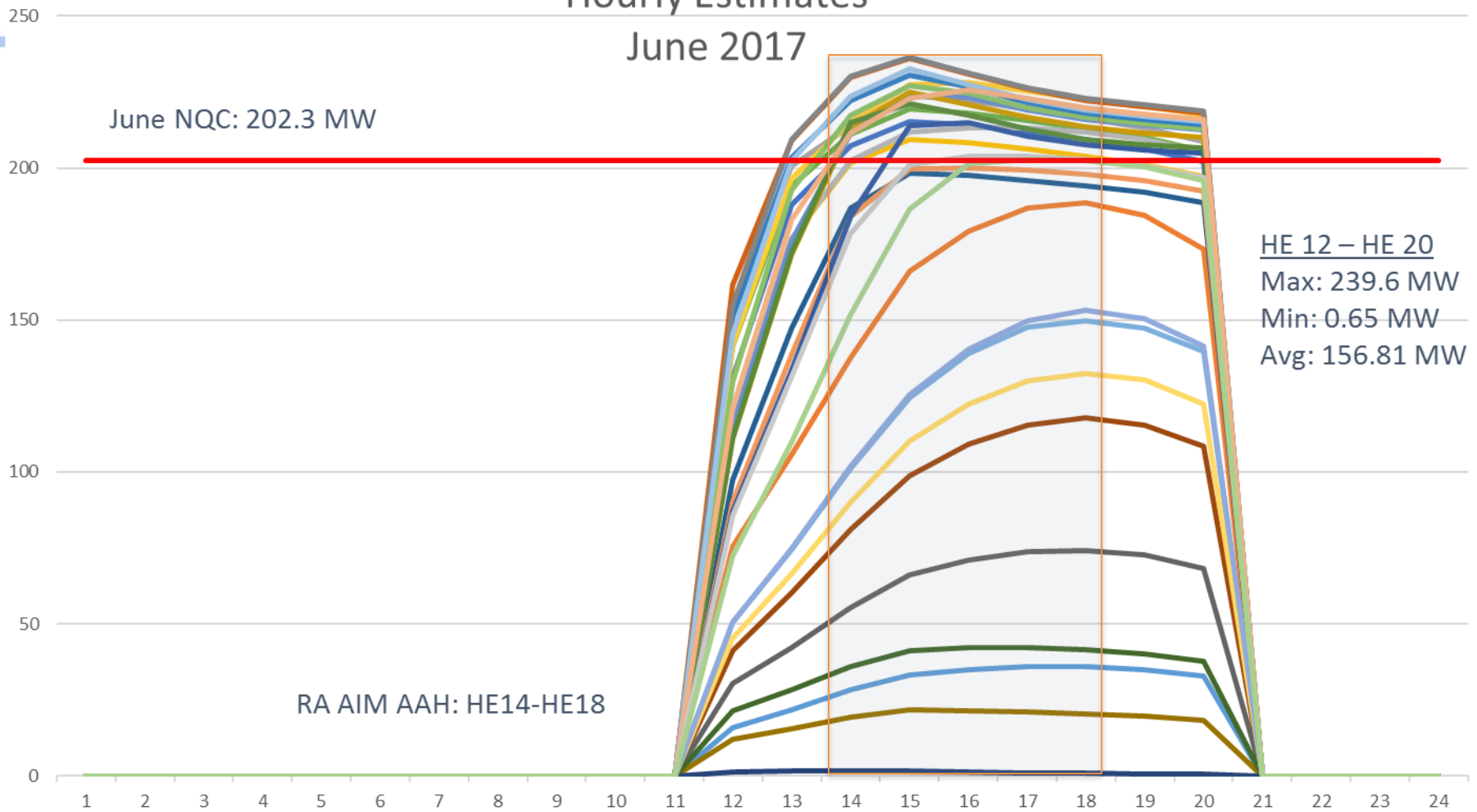


SCE Summer Discount Plan Program (Residential + Commercial)

Hourly Estimates

June 2017

June NQC: 202.3 MW



- 6/1/2017 6/2/2017 6/3/2017 6/4/2017 6/5/2017 6/6/2017 6/7/2017 6/8/2017
- 6/9/2017 6/10/2017 6/11/2017 6/12/2017 6/13/2017 6/14/2017 6/15/2017 6/16/2017
- 6/17/2017 6/18/2017 6/19/2017 6/20/2017 6/21/2017 6/22/2017 6/23/2017 6/24/2017
- 6/25/2017 6/26/2017 6/27/2017 6/28/2017 6/29/2017 6/30/2017 NQC

CAISO Requirements

- RA value sets MOO for every hour of day – 24x7
- If PDR does not bid up to its RA value, CAISO inserts bid up to RA value for that hour
- Use-limited flag “exempts” PDR from bidding up to its RA value
 - Can weather or business hours be reason for ULR status?
- Assessment Hours – Penalizes for non-performance
 - Any NQC/LIP value above the coolest day or minimum amount of performance will result in RAAIM or SIBR bid insertion
 - Any NQC/LIP value based on the “coolest” day does not reflect the reliability benefits provided by PDR
- PDRs may not submit partial outages for partial availability
 - Concerns of gaming settlement

Use-Limited Resources

- Should PDRs qualify as ULRs?
- PDRs have max dispatches
 - 3 consecutive days and 4 hours min per day
 - Max dispatches per year/month
- Ability to request use-limitation reached outage card to pause dispatches
- Does ULR concept carry into availability on an hourly basis due to weather or business hours?

Variable Energy Resources Model

- CAISO forecasts the output for VERs
 - Resource may also provide its own forecast
- Forecast is the resource's award
 - Allows CAISO to dispatch other resources more precisely and avoid additional ramping when PDRs are not available
- Solar/Wind exempt from generic RAAIM
 - Will this change with ELCC?

Questions?

- Does providing forecasts for PDRs benefit both the supplier community and the CAISO?
- Should the PDRs offer into CAISO's market 24x7 to be dispatched based on economics rather than only in the RAAIM hours?
- Is the VERs "model" an appropriate method to allow weather sensitive DR, or all DR, to participate in the CAISO market?