



**California Energy Commission**

# **Updates to Residential Time of Use Rate Hourly Load Impacts**

**2018 Integrated Energy Policy Report  
California Energy Commission**

**August 2, 2018**

**Lynn Marshall**

**Supply Analysis Office**

**Energy Assessment Division**

**[Lynn.Marshall@energy.ca.gov](mailto:Lynn.Marshall@energy.ca.gov)/916-654-4767**



# Overview of Methodology

1. Model Default Pilot Rates
  - Price ratios were increased to be more consistent with observed opt-in pilot results
2. Estimate elasticities by forecast zone and day
3. Loads: adjust 2015 load profiles consistent with final 2017 IEPR demand forecast, including AAEE
4. Project households and participants, accounting for CPUC exemption decisions
5. Estimate per household impact 2020-2030
  - Adjust for default effect based on SMUD SPO Pilot
6. Calculate hourly impacts by service area; align to TAC hourly consumption forecast.



# Changes for 2018 Update

1. Update household participation forecast using first summer of default pilot opt-out and exemption rates, by climate zone.
  - 2017 IEPR assumed 10% opt-out rate. IOU reports show **initial** opt out rates of:
    - SDG&E 15%
    - PG&E 19%
    - SCE: 12%
  - Align with CCA demand forecast assumptions and status of CCA TOU participation
2. Align hourly TOU impacts with TAC area hourly consumption forecast, by month, so that largest TOU impacts occur on day of TAC monthly consumption peak.
  - Default pilot load impacts will not be available in time for this forecast, but will be incorporated in 2019 IEPR