



California Energy Commission

# California Energy Demand Updated Forecast, 2019-2030: Purpose and Process

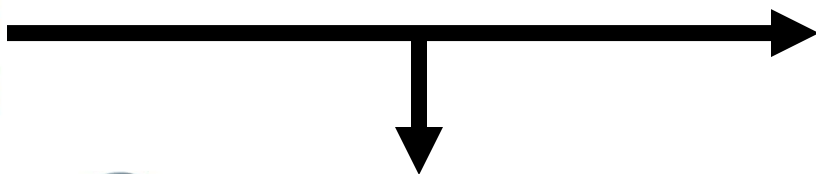
August 2, 2018

Cary Garcia  
Energy Assessments Division  
[cary.garcia@energy.ca.gov](mailto:cary.garcia@energy.ca.gov)  
916-654-4698



## California Energy Commission

### Purpose



California ISO

- CAISO Transmission Planning Process
- CPUC IRP Process & Potential and Goals Study (EE)
- Distribution-level planning



## 2018 IEPR Forecast Update



➤ **ONLY Electricity**

➤ **No updates to Energy Efficiency and Demand Response**



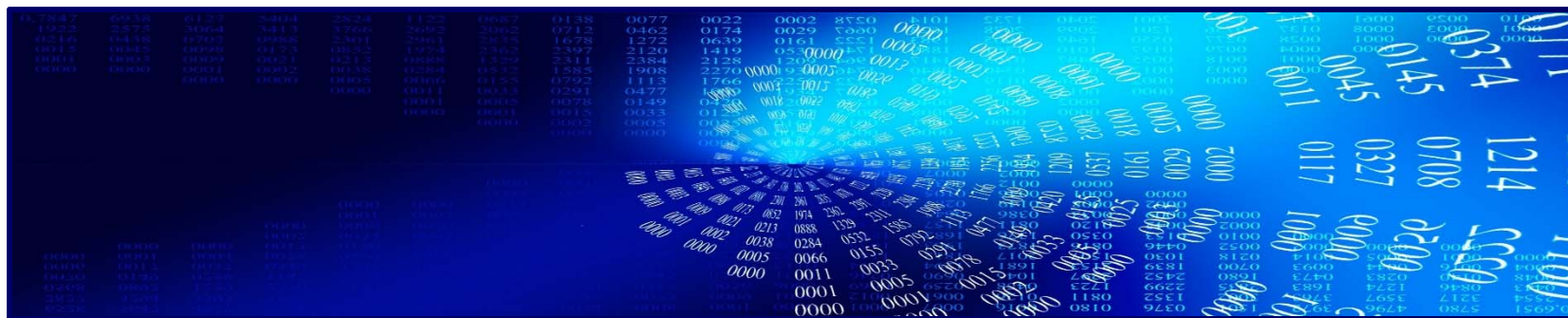
# Process



- Most recent economic and demographic projections
- Update historical data for electricity sales, consumption, and peak demand



# Process



## Single-equation econometric forecasts models of consumption by sector

- Residential, Commercial, and Ag
- Manufacturing
- Resource Extraction
- TCU (Transportation, Communications, and Utilities)



# Process

- **Run each model twice**
  - Using *old* econ-demo indicators
  - And using *new*...
- **Compare the results...**
- **Adjust CED 2017**
  - Based on percentage differences between results of the two model runs





# Process

- **Update critical “dynamic” components\***
  - EV forecast
  - PV forecast, including AAPV
- **Additional adjustments**
  - Hourly load model
  - Residential TOU analysis



# Results

- **Updated *baseline* forecast**
  - Sales, consumption, and peak demand
  - 8 planning areas and 20 climate zones
- **Demand scenarios**
  - High, Mid, and Low





# Results

- **Additional Achievable Energy Efficiency**
  - Unchanged from 2017 IEPR forecast
  
- **Updated managed IOU forecasts**
  - Combination of mid baseline with mid and low AAEE/AAPV scenarios



## 2018 CED Update Schedule

### ➤ August-September 2018

- Finalize econ-demo and historical data

### ➤ October-November

- Finalize forecast and draft forecast report

### ➤ November

- DAWG meeting to discuss results ahead of workshop



## 2018 CED Update Schedule

### ➤ Early December

- IEPR forecast workshop

### ➤ December

- Address and incorporate comments
- Final report posted at the end of December

### ➤ January 2019

- IEPR Forecast adopted at CEC Business Meeting



# California Energy Commission

