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2019 Time Dependent Value of Energy

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Staff Presentation
Charles Imbrecht Room,
California Energy Commission
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What is Time Dependent Value (TDV) of Energy?

- TDV is a meta Time of Use “rate” or “value curve” for the State of California
- The TDV values energy used differently based on the hour of the year to reflect the cost:
  - To consumers
  - To the utility system
  - And to society

What is Time Dependent Value (TDV) of Energy? Continued

- TDV is a flexible tool with values that vary:
  - By type utility (electricity vs. natural gas vs. propane)
  - By location – reflecting differences in costs driven by climate conditions
  - By type of construction – residential vs. nonresidential

TDV Components

- TDV calculation inputs include:
  - Utility marginal cost of generation price forecasts (electricity and natural gas)
  - Transmission and distribution costs
  - Emissions and environmental costs
  - Ancillary services and peak capacity costs
  - Fixed annual utility costs (taxes, metering, billing, etc.)

How the Energy Commission Uses TDV

- Its functionality comes from its integration into our approved California Building Energy Code Compliance software (CBECC-Com and CBECC-Res)
- Within the software it is basis for setting the maximum energy budgets for buildings and valuing the energy performance trade offs made in building designs.

2019 TDV Update

- All of the data inputs have been updated to include the latest and best available data
- Transmission and Distribution
  - No longer using temperature to distribute transmission and distribution costs
  - Using actual substation data for transmission and distribution to distribute costs
- SB 350 “Friendly” Assumptions

2019 TDV Update

- The Clean Energy and Pollution Reduction Act of 2015 (SB 350) Requires
  - California to achieve 50% purchase of eligible renewable energy resources under the Renewable Portfolio Standard by December 31, 2030
  - Achieve a cumulative doubling of electricity and natural gas energy efficiency savings in existing buildings by January 1, 2030

Looking Forward

- Develop Final 2019 TDV by late June or earlier
- Lead Commissioner Meeting on final 2019 TDV soon thereafter (est. July or earlier)
- Docket #16-BSTD-06 is open an will remain open for the submission of comments through the Lead Commissioner Meeting
- Presentations and other materials will be posted to Docket #16-BSTD-06