

DOCKETED

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2019 Time Dependent Value of Energy

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Staff Presentation
Charles Imbrecht Room,
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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



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 as a proxy 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 annual electricity and natural gas energy efficiency savings in existing buildings by January 1, 2030



Post May 12th Staff Workshop

- All written comments have been treated as if we are in the **initial stages** of formal rulemaking
- Since the May Staff Workshop, the Energy Commission has published three iterations of the 2019 TDV



Looking Forward

- Post-Workshop we will release research versions of CBECC-Res and -Com
- Docket #16-BSTD-06 is open and will remain open for the submission of comments through the end of July
- Presentations and other materials will be posted to Docket #16-BSTD-06