Energy Efficiency for the Modern Utility

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Senior Vice President, Customer Service
Hawaiian Electric Company
## Think About Household Energy Budget


<table>
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<td>$177 (2)</td>
<td>$5 (50)</td>
<td>$101 (36)</td>
<td>$0 (51)</td>
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</table>
EE on the Grid Examples

- Generating heat rates and ramping (Schofield)
- T&D testing to reduce secondary voltages
  - Installing more monitoring
  - Gridco IPS
  - Varentec ENGO’s
  - Advanced Inverters
Daily Variation
Portfolio and Partnership Approach

- Energy Efficiency
- Supply
- Demand
- Pricing
- Programs

Must work together to solve problems for customers, the neighborhoods and the whole community... a systems approach for decarbonization – everything is interrelated
Long Term View

- Use all resources efficiently to optimize outcomes for the community
- Build stronger local economies