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Smart Building Technologies and the Policies That Support Them

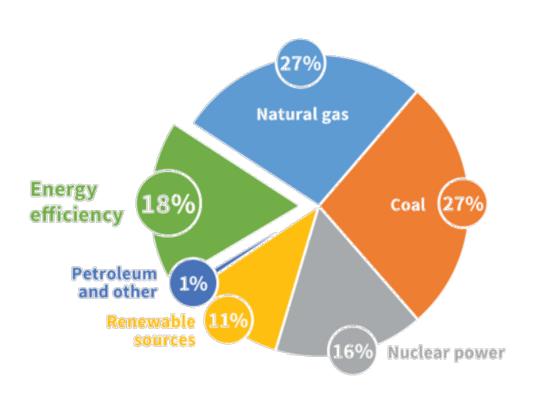
Doug Lewin, VP, Regulatory Affairs
And Market Development

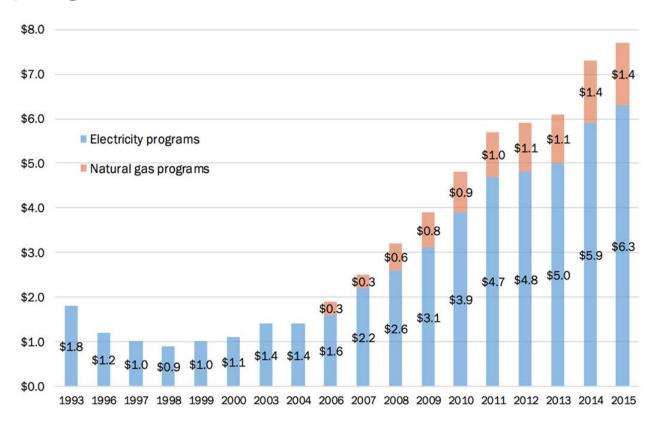
February 8, 2017 – UT Energy Forum

We change the way people use energy™

How do Utilities and Policy Support Energy Efficiency?

- 26 states now have requirements for utilities to attain EE as a resource
- Significant DSM ramp up in 2000s, driven by policymakers
- EE increasingly seen as resource, required and incentivized by states
- More utilities embracing EE DSM programs for customer satisfaction







Supply-Side vs. Demand-Side Resources





Peaker plants (e.g., natural gas CT)

Bilateral contracts and organized markets







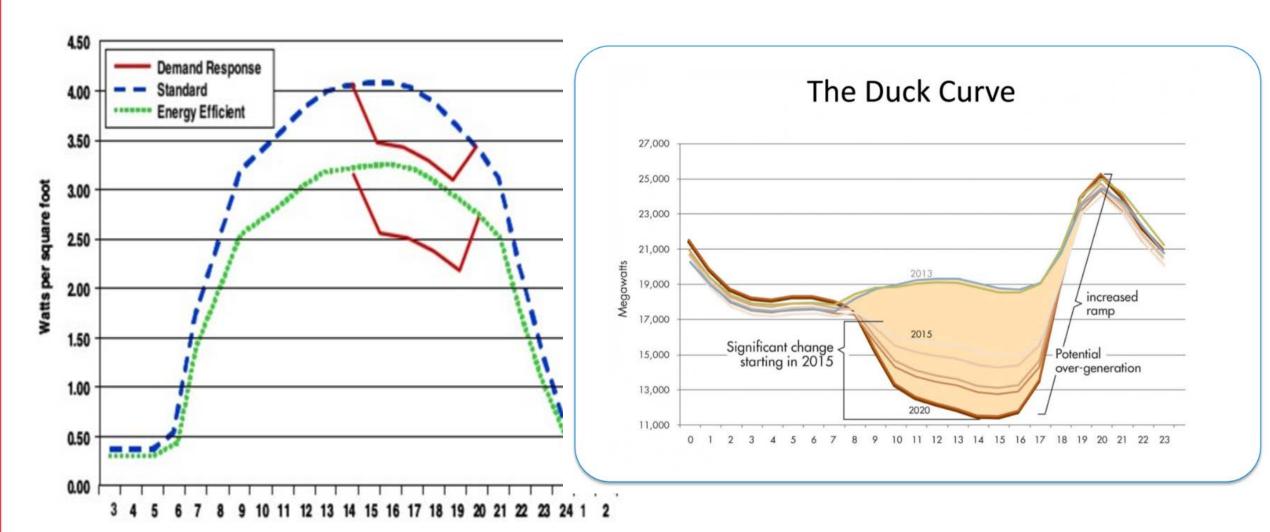


Control quantity of energy used at specific times

Several kinds, numerous benefits

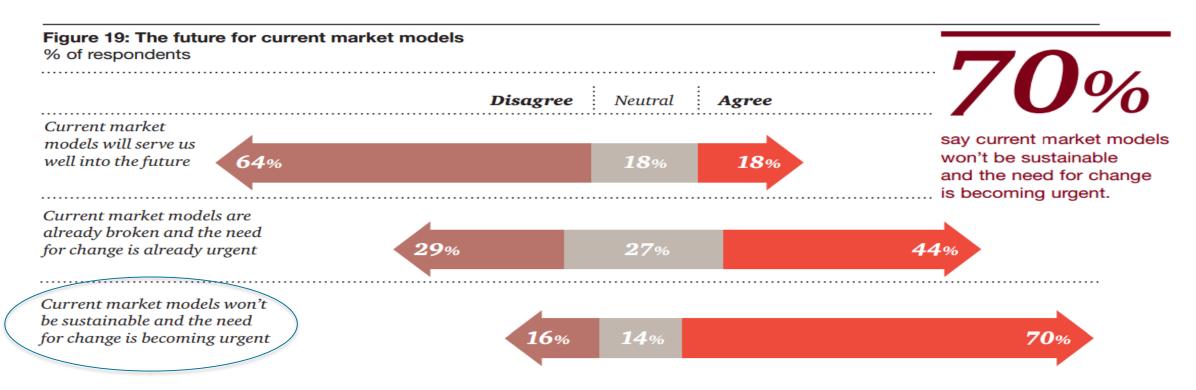
Increasingly able to participate in markets

Smart Buildings Can Help Solve Grid Problems



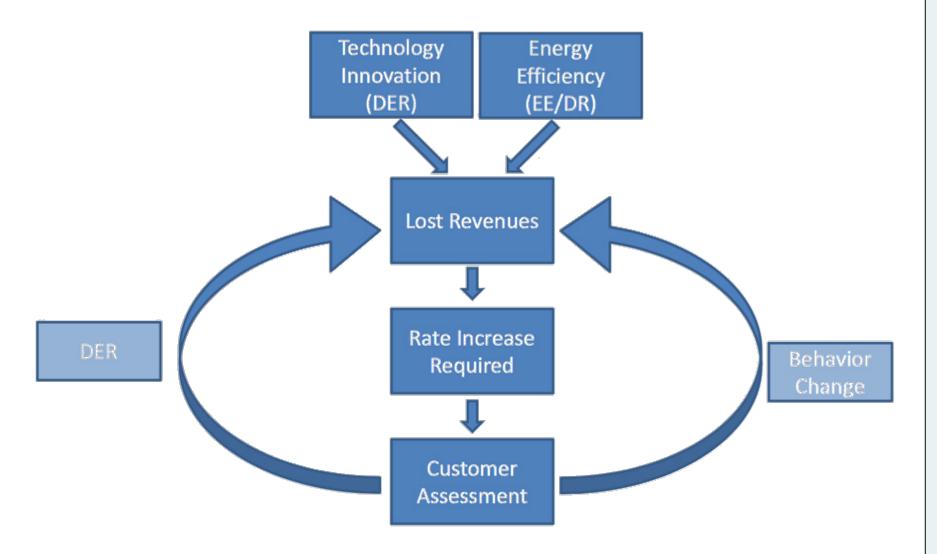
Utility Execs Agree: Current models aren't working

14th PwC Global Power & Utilities Survey



Rated on a scale of 1–5, where 1 = fully disagree; 2 = partially disagree; 3 = neither agree nor disagree; 4 = partially agree; 5 = fully agree. Source: 14th PwC Global Power & Utilities Survey

Disruptive Challenges for Utilities



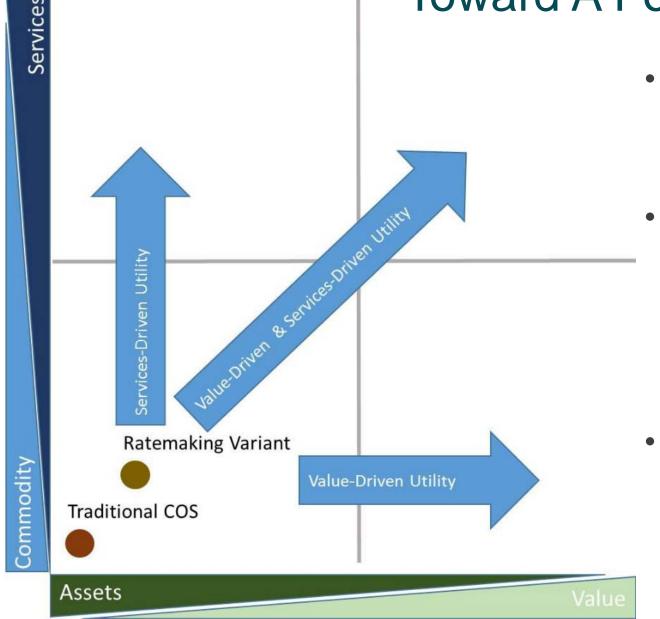
What are DERs?

Distributed Energy Resources (can be defined various ways) generally includes:

- Distributed
 generation
 (DG) like solar
 rooftop panels,
 combined heat
 and power
 (CHP)
- EE
- DemandResponse
- Storage

Toward A Focus on the Customer • Think back to beginnings of

- Think back to beginnings of utilities' history: it was all about assets and commodities.
- Today, that is changing rapidly and moving toward value and services—but while the pace of change is quick, it's only just begun.
 - Many states are taking concrete steps to compensate and incentivize utilities to focus on value and services.







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Thank you