

INSTITUTE

Utility Partners Roundtable

NASEO's National Energy Policy and Program Institute

July 27, 2017

The Edison Electric Institute (EEI) is the association that represents the U.S. investor-owned electric industry. Our members provide electricity for 220 million Americans, operate in all 50 states and the District of Columbia, and directly employ nearly 500,000 workers. Safe, reliable, affordable, and clean electricity powers the economy and enhances the lives of all Americans.

The EEI membership also includes dozens of international electric companies as International Members, and hundreds of industry suppliers and related organizations as Associate Members.

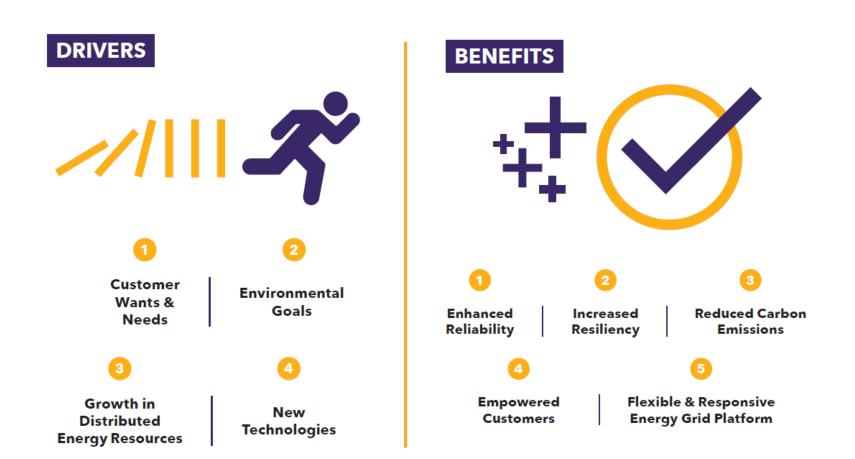
Since 1933, EEI has provided public policy leadership, strategic business intelligence, and essential conferences and forums for the energy industry.

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I. Smarter Energy Infrastructure



In the last 10 years, electric companies have invested

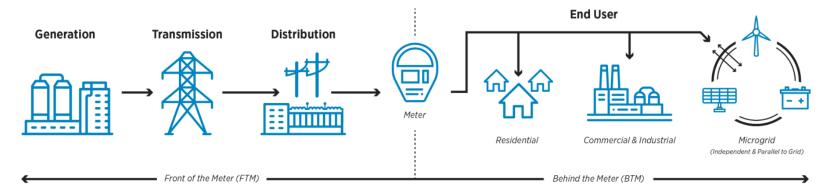
\$881 billion

to build smarter energy infrastructure and transition to even cleaner generating sources.



Energy Storage: Why Now?

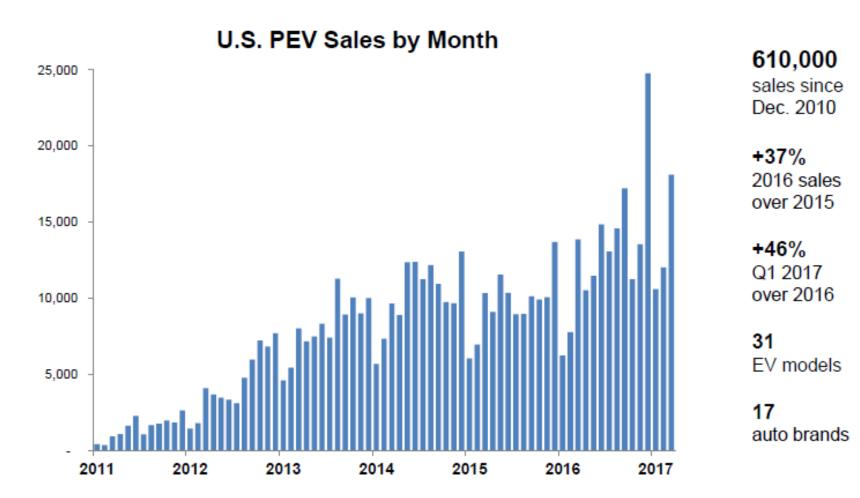
Energy storage can be deployed in all parts of the energy grid, and has applications in all parts of the value chain.



Enhance Electric Company Operations	Provide Grid Support	Optimize Power System	Enhance Customer Experience
 Alleviate high energy prices through time shifts Reduce the need for new generation 	 Regulate frequency Reduce spinning, non-spinning, and supplemental reserve requirements Voltage support Black start electricity restoration 	 Defer transmission and distribution upgrades Relieve electricity congestion 	 Higher power quality and reliability Retail electric energy time shift
	FERC REGULATED	STATE REGULATED	END USE



Electric Vehicles: Strong Progress





There Is Growing Electrification Momentum



Transit

EV Buses Are in Service in 15+ Cities

Airports

Seattle Sea-Tac Saves \$2.8 Million in Fuel per Year





Seaports

Long Beach Terminal Electrification Is Equal to 5,000 Homes

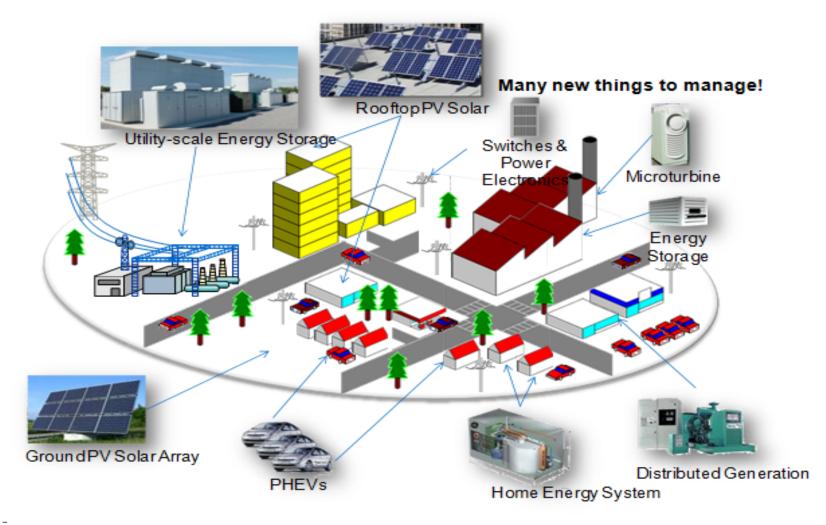


Fleet

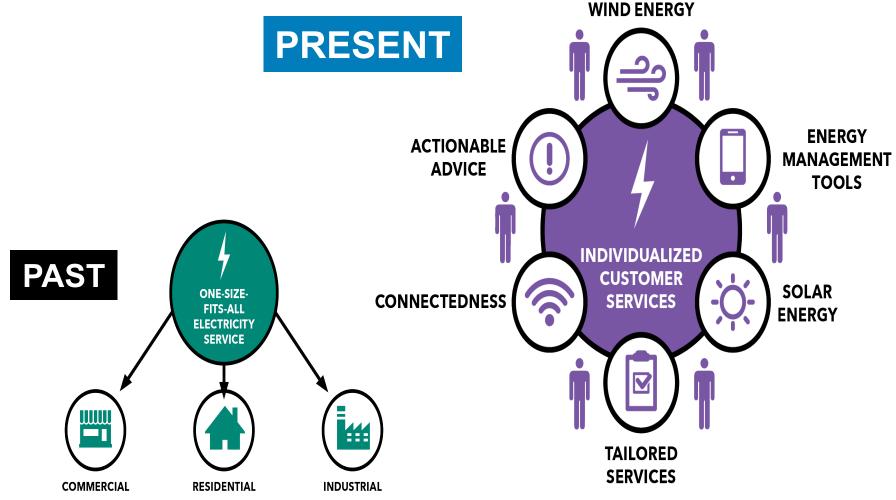
In 2016, Electric Companies Plan to Invest More Than \$128 Million



Potential Elements of a Microgrid Campus



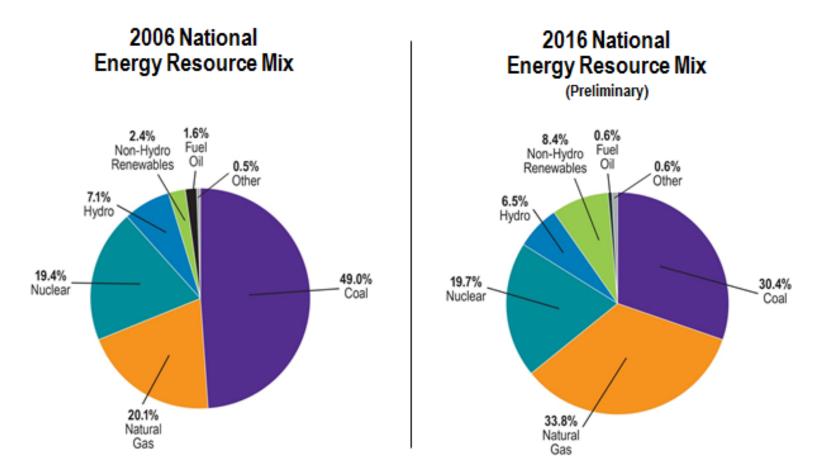
II. Individualized Customer Services



Source: The Edison Foundation Institute for Electric Innovation, *Thought Leaders Speak Out: Key Trends Driving Change in the Electric Power Industry*, December 2015



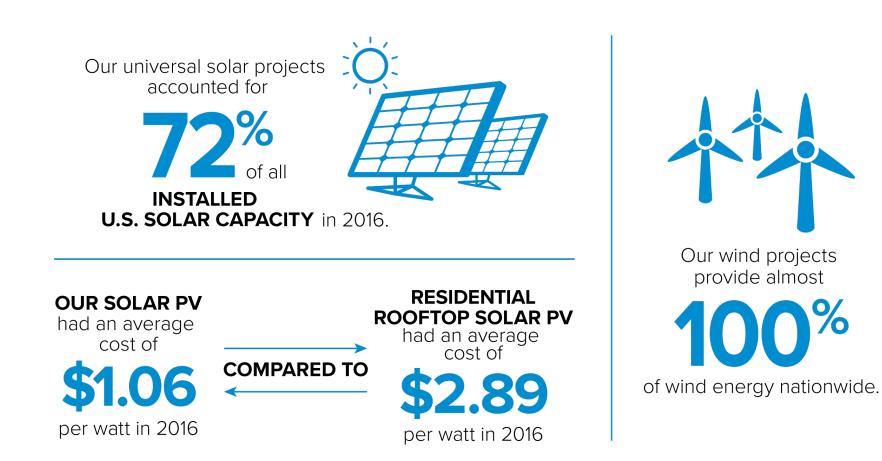
III. Our National Fuel Mix Is Changing



Source: Department of Energy, Energy Information Administration

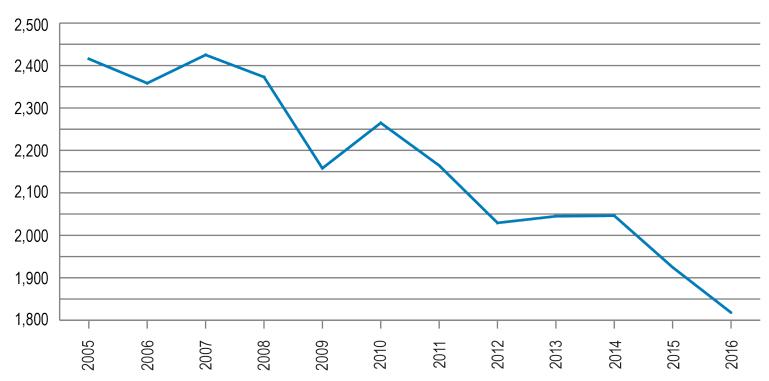


We Are Adding More Non-Hydro Renewable Resources to the Mix



U.S. Power Sector Carbon Dioxide Emissions Declining (2005-2016)

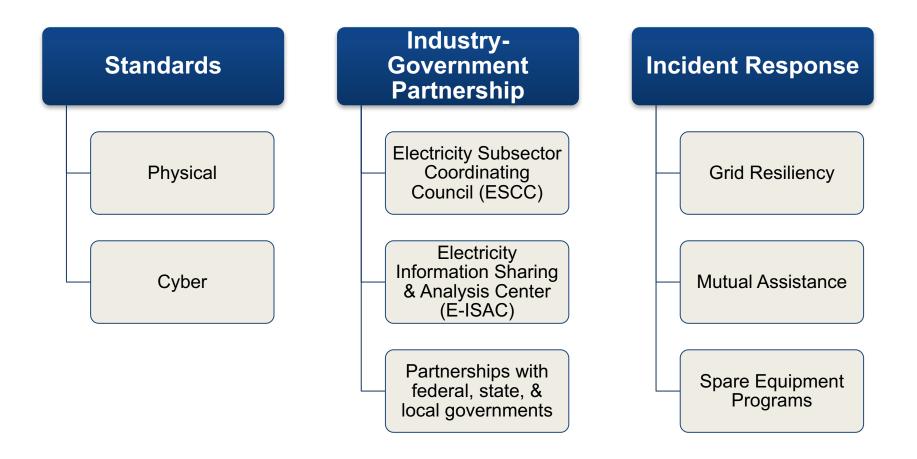
- As of 2016, industry CO₂ emissions were nearly 25 percent below 2005 levels
- Trajectory will continue based on current trends



Million Metric Tons

Source: Developed from U.S. Energy Information Administration, Monthly Energy Review, March 2017.

IV. Approach to Grid Security



Talk with us!

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