

Delivering America's Energy Future

Electric Power Industry Outlook

Edison Electric Institute Wall Street Briefing February 6, 2019 New York, NY



Opening Remarks & Industry Priorities



Creating Value in America's Economy



\$865 billion
annually to U.S. GDP or
5%
of total GDP



7 million+
jobs across the
United States



\$100 billion+

per year to build smarter, cleaner, stronger, and more secure energy infrastructure

Our Industry Vision Is Customer-Driven



Value-Focused



More Dynamic, More Secure Energy Grid



Clean Energy



Innovative Energy Solutions

2019 Industry Priorities



Energy Infrastructure



Grid Security & Resilience



Clean Energy



Electric Transportation



Wildfire Mitigation & Adaptation



Enhanced Customer Experience

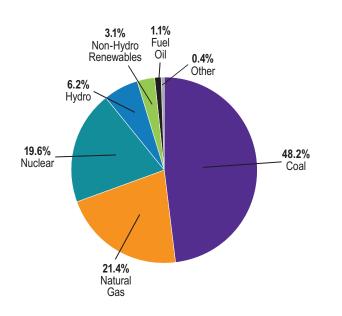
The Clean Energy Transformation





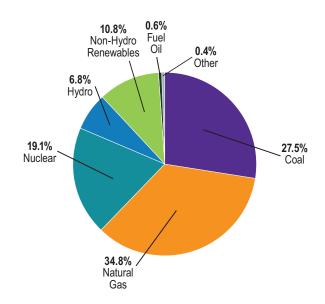
Mix of Resources Used To Generate Electricity Has Changed Dramatically 2008–2018

2008 National Energy Resource Mix



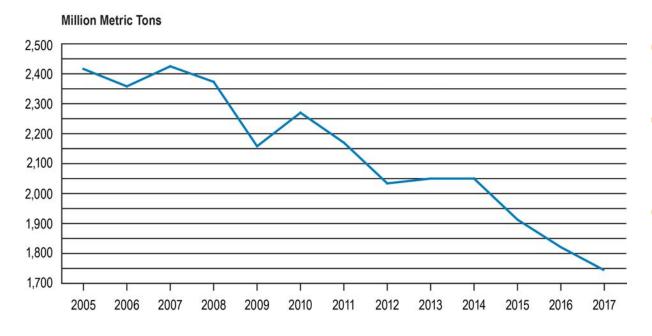
2018 National Energy Resource Mix

(preliminary)





U.S. Power Sector Carbon Dioxide Emissions 2005–2017



- More than 1/3 of U.S. electricity comes from carbon-free sources
- As of 2017, industry CO₂ emissions were 28 percent below 2005 levels
- Trajectory is expected to continue based on current trends

Source: Developed from U.S. Energy Information Administration, *Monthly Energy Review*, October 2018.



Electric Companies Are Leading On Clean Energy



Changing U.S. Energy Mix

>1/3

CARBON-FREE



>1/2

Of the Industry's New Electricity Generation Capacity Each Year Is

WIND AND SOLAR ENERGY



Providing

69%

of the SOLAR ENERGY in the Country



Using

90%+

OF ALL U.S. ENERGY STORAGE



Increasing Investments

\$100 Billion+

PER YEAR IN SMARTER ENERGY INFRASTRUCTURE



Expanding Access to EVs

95,000+

CHARGING STATIONS
NATIONWIDE

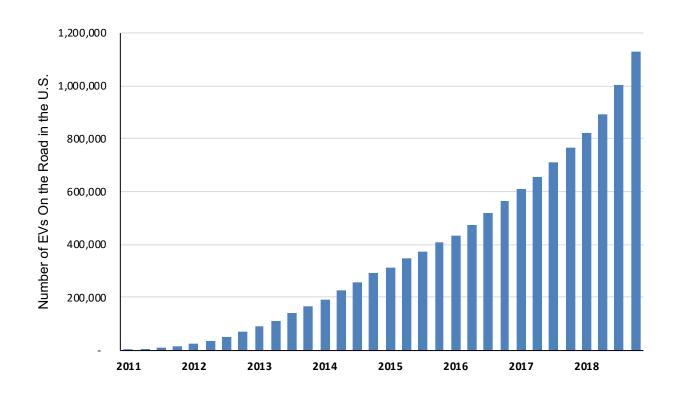


The Benefits of Electric Transportation





Electric Transportation: Growing Momentum



>1 million

EV sales increase, 2017 to 2018

+81%

EV availability in 2018

41 models 21 brands

Battery price*
-85%







TODAY



There are more than

1 million

electric vehicles on U.S. roads.



BY 2030

The number of EVs on the road is projected to reach

18.7 million.

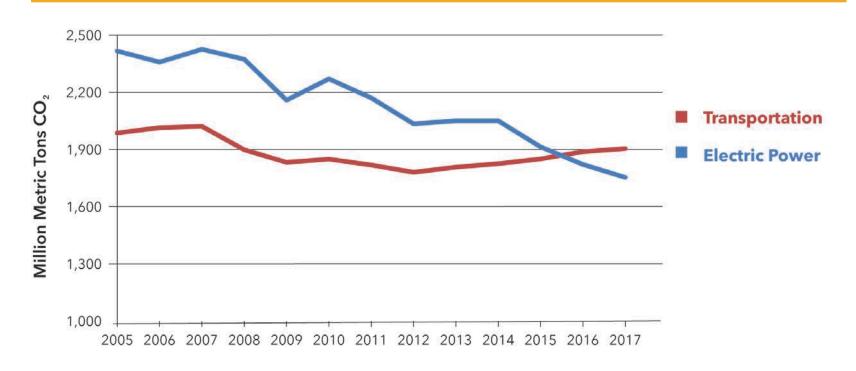


~9.6

charge ports will be needed to support this number.



CO₂ Emissions: Electric Power and Transportation Sectors



Meeting Customers' Expectations









Having a Customer Focus Is Most Important



believe it's more important for a company to be customer-focused than innovative





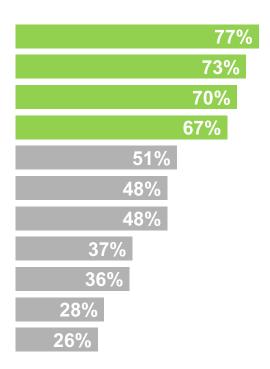






Respect My Time. Respect My Money.

Q: Please rate each based on how **important** it is to you. (TOP 2)



Quality products or services at a **good value**

Helps customers save money

Responsive and helpful customer service

Easy to do business in person, by phone, or online

Treats customers like individuals

Innovates to keep up to date

Offers choices and options

Gives customers tools to control their experience

Environmental stewardship

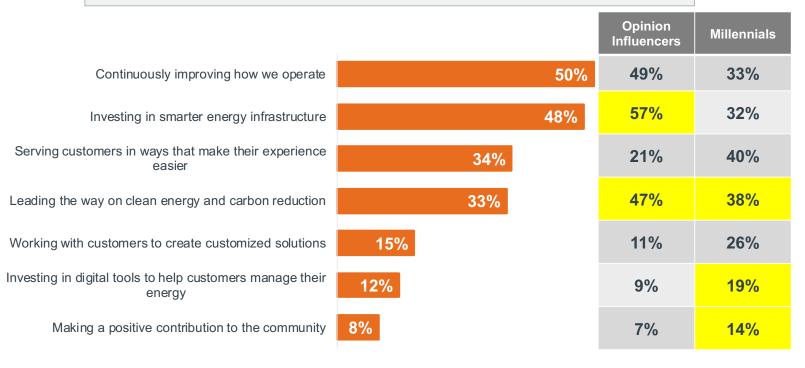
Anticipates customer needs

Makes positive contributions to the community





Q: Which is most important? That your energy company is...? (TOP 2)

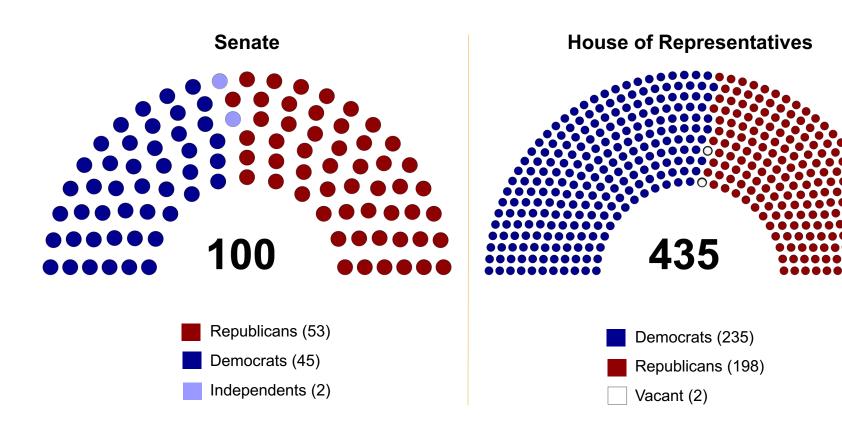


The Political Backdrop



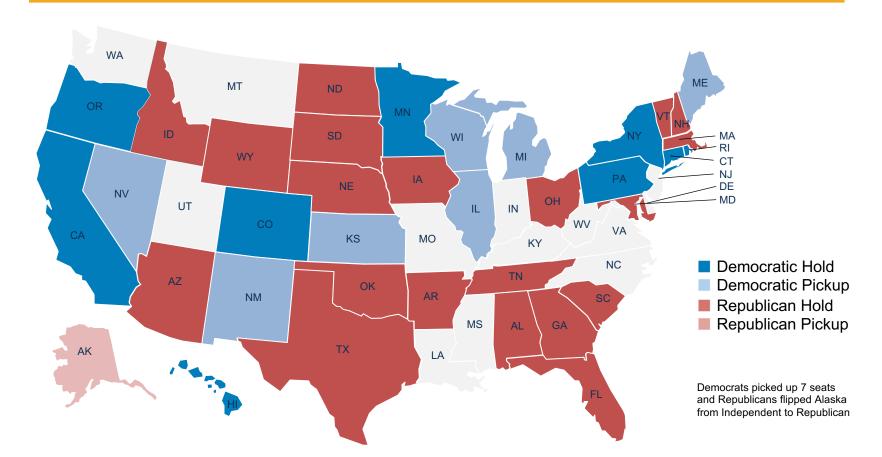
The 116th Congress





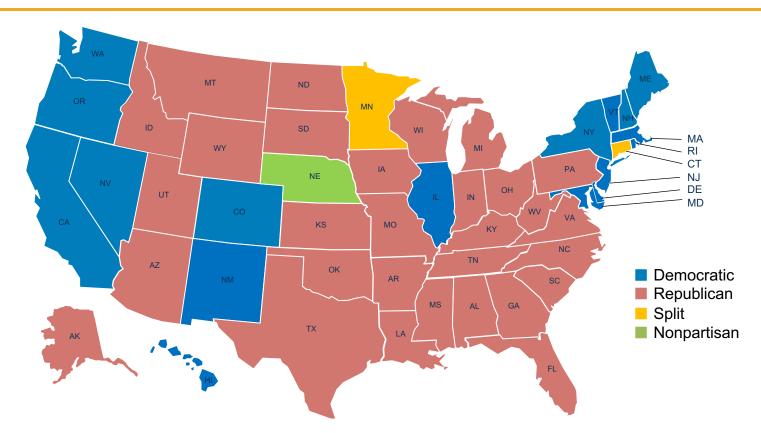


The Midterm Elections: Governor Races





The Midterm Elections: Control of State Legislatures

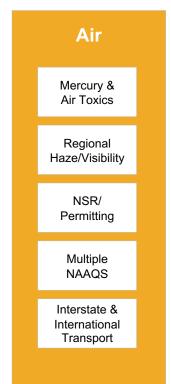


The Regulatory Landscape

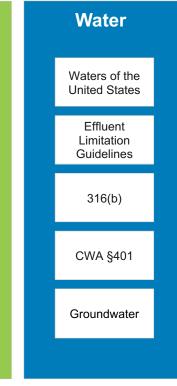


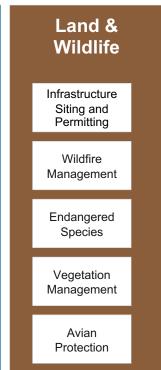


Environment and Natural Resources Challenges: 2019 and Beyond











FERC Priorities

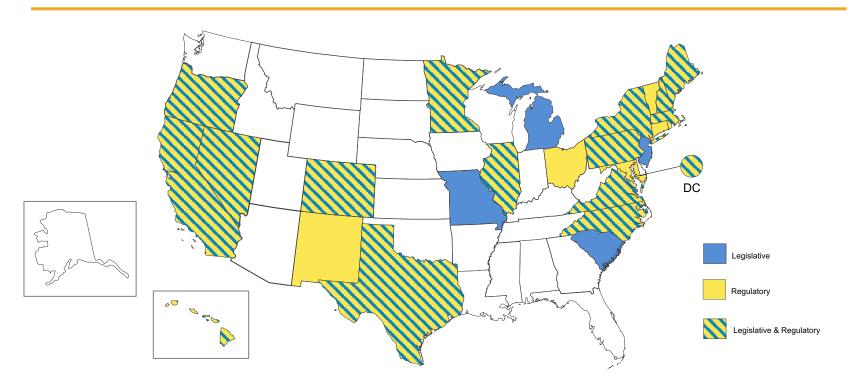


- Holistic PURPA Reform
- ROE Policy
- Transmission Incentives
- Order 1000
- Energy Price Formation Issues
- Resiliency
- Natural Gas Pipeline
 Policy Statement Review





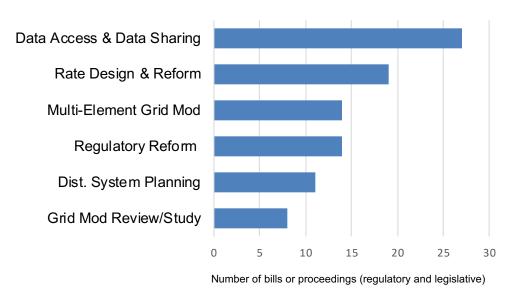
Grid Modernization State Regulatory & Legislative Activity 2018







Grid Mod Legislative & Regulatory Activity by Type (2018)



Trending

- Decisions on data
- Transformative rate design
- Regulatory reform
- Mix-and-match grid mod

Storm and Wildfire Response & Energy Grid Security







New EEI Wildfire Practice Focused On:

- Access issues to perform vegetation management
- Outstanding ROW renewals
- Legal/insurance challenges
- Sharing suggested practices among member companies









Addressing Threats to the Energy Grid

The Electricity Subsector Coordinating Council (ESCC) is focused on improving the security of the energy grid:

- The ESCC plans and exercises coordinated responses to attacks or major disruptions to the energy grid.
- The ESCC makes sure information about threats is communicated quickly between government and industry.
- The ESCC deploys government technologies on electric company systems that improve situational awareness of threats to the energy grid.
- The ESCC coordinates closely with other critical infrastructure sectors.



Tax Reform Implementation





Key Issues Addressed in the 163(j) Regulations

Requested by EEI/Industry	Proposed by Treasury
Industry exclusion determined at consolidated group	✓
Principle that debt is "fungible"	✓
Asset-based allocation methodology	✓
MACRS or ADS	✓
De Minimis threshold for "regulated % calculation"	✓
Partnership—excepted vs. non-excepted treatment applies	✓

ESG/ Sustainability Template & Natural Gas Sustainability Initiative





ESG/Sustainability Template

The ESG/Sustainability Steering Committee identified 5 areas of focus based on discussions with investors

Qualitative	
ESG/Sustainability Governance	Management and oversight of ESG and sustainability.
ESG/Sustainability Strategy	Practices, programs, and initiatives designed to support the company's transition to a lower carbon and increasingly sustainable energy future.
Quantitative	
Portfolio	An Excel-based data reporting template that is customized for electric companies to include metrics on owned and/or purchased generation data by technology/resource type, as well as other metrics related to capital investments, emissions, natural resources, and human resources.
Emissions	
Resources	

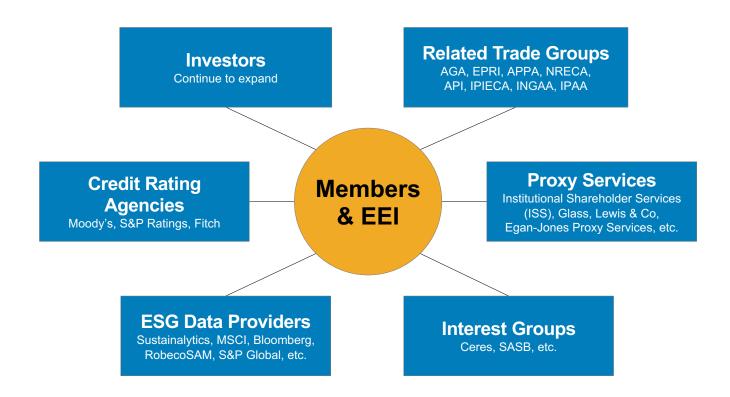
Note: data for these areas should include as much historical, current, and forward-looking information as is appropriate.

Version 2 release in mid-2019 will include LDC Metrics

- EEI and AGA are currently engaging investors to seek guidance on relevant ESG metrics for LDCs.
- A group of AGA pilot companies are currently publishing gas LDC metrics with the Version 1 template.
- These LDC metrics will be fully incorporated into Version 2 to report 2018 data later this year.



Investor Engagement and Stakeholder Outreach





Natural Gas Sustainability Initiative

An overarching framework to recognize and advance the innovative, voluntary sustainability programs from the wellhead to the burner tip.

NGSI enables the natural gas industry to measure, disclose, and recognize industry-wide progress and innovation on key sustainability metrics.

















Program Elements

Measure

Disclose

Recognize

Strategic Goals

Encourage consistent approaches for measuring and tracking key metrics

Support and encourage robust reporting across the industry

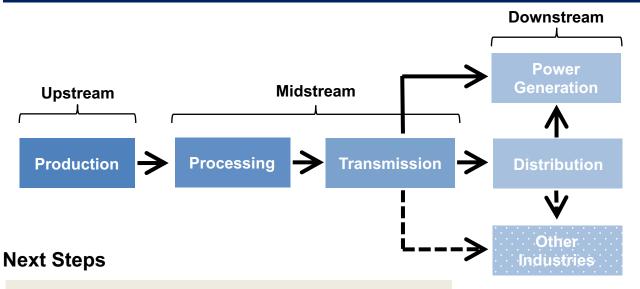
Encourage environmental performance and sustainability leadership

Provide cohesive framework for sustainability metrics throughout the natural gas supply chain





Recognizing voluntary actions and sustainability commitments from industry leaders across the natural gas value chain



- Engage stakeholders
- Incorporate feedback into NGSI design

Industry Financial Highlights







as of 12-31-2018

Stock Performance

	EEI Index	DJIA	S&P 500	NASDAQ
1-year	3.7%	(3.5%)	(4.4%)	(3.9%)
3-year	36.0%	44.0%	30.4%	32.5%
5-year	68.5%	58.8%	50.3%	58.9%
10-year	176.4%	244.3%	243.0%	320.8%

Dividends

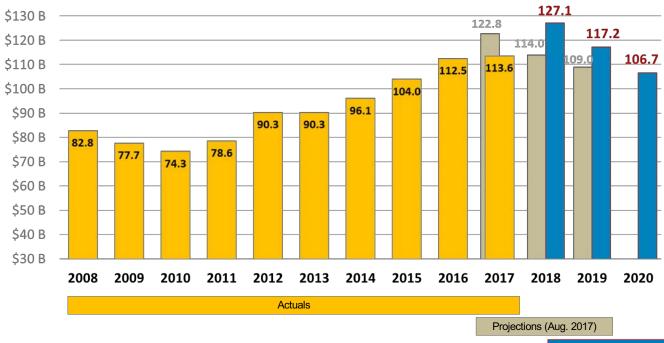
- Yield = 3.4%
- 41 of 42 companies currently paying a dividend
- 39 of 42 companies increased dividend rate in 2018

Credit Ratings

- Strengthening 'BBB+' Average
- Outlook 77% Stable or Positive







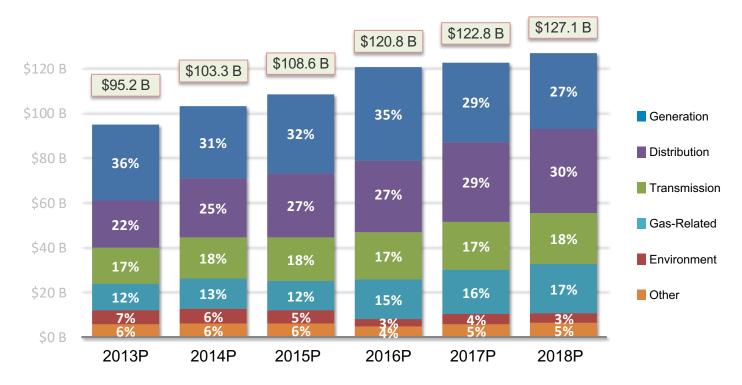
Projections (Oct. 2018)

Notes: Total company spending of U.S. Investor-Owned Electric Utilities, consolidated at the parent or appropriate holding company. Projections based on publicly available information and extrapolated for companies reporting fewer than three projected years (0.1% and 5.7% of the industry for 2019 and 2020, respectively).

Source: EEI Finance Department, company reports, S&P Global Market Intelligence (October 2018).

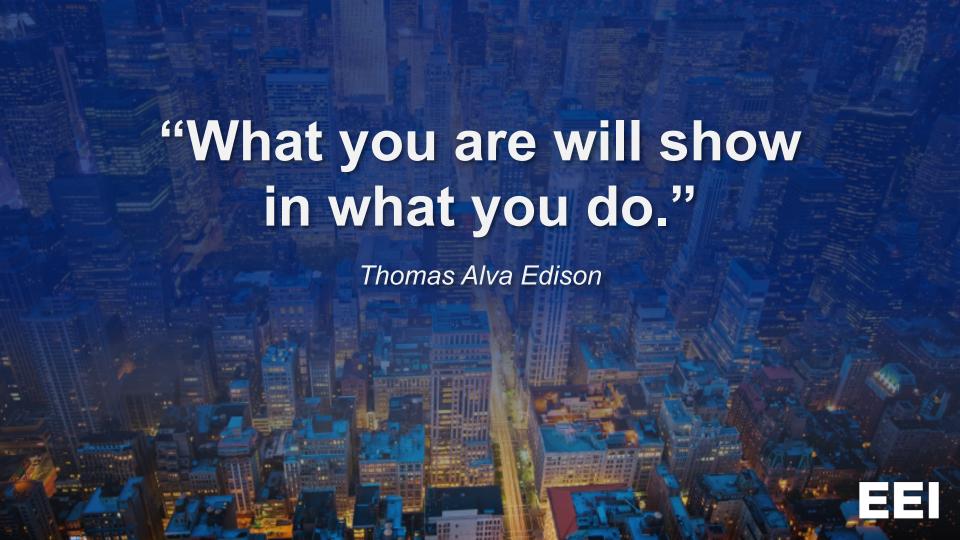






Notes: Total company functional spending of U.S. Investor-Owned Electric Utilities may not sum to 100% due to rounding error. Projections based on publicly available information and extrapolated for companies not reporting functional detail (1.3%, 1.3%, 1.3%, 0.7%, 0.9%, 0.8% of the industry for 2013, 2014, 2015, 2016, 2017, and 2018 respectively).

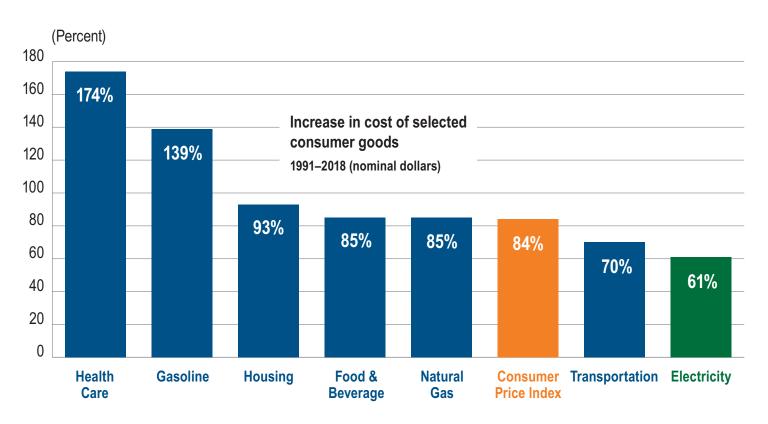
Source: EEI Finance Department, company reports, S&P Global Market Intelligence (October 2018).







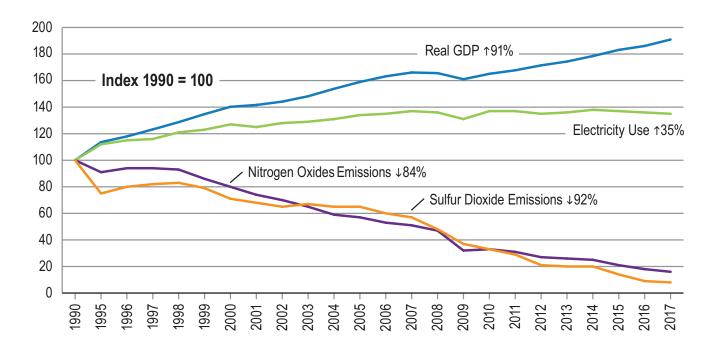
Electricity Is a Great Value





Power Plant Emissions Decreasing Significantly

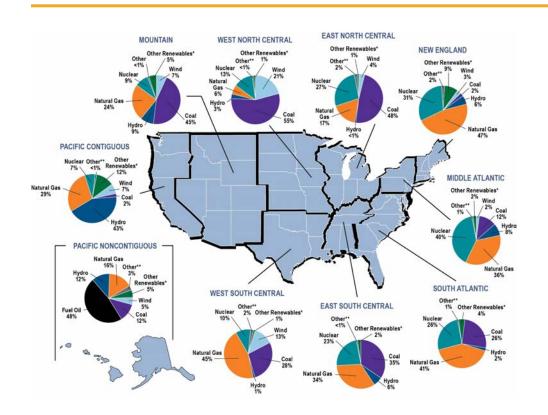
1990-2017



1990 represents the base year. Graph depicts increases or decreases from the base year.



Electric Companies Use a Diverse Mix Of Resources to Generate Electricity



Measured in Megawatt hours.

*Includes generation by agricultural waste, landfill gas recovery, municipal solid waste, wood, geothermal, non-wood waste, and solar.

**Includes generation by tires, batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, and miscellaneous technologies.

Sum of components may not add to 100% due to independent rounding.

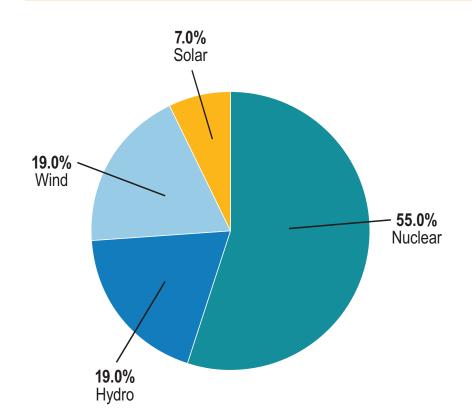
Source: U.S. Department of Energy, Energy Information Administration, Power Plant Operations Report (EIA-923); 2017 preliminary generation data.

Updated March 2018.



Carbon-Free Electricity Generated

2018 Preliminary



Nuclear energy remains the largest source of carbon-free electricity: Currently, 98 reactors in 30 states produce nearly 20 percent of our nation's electricity and more than 50 percent of our carbon-free electricity.

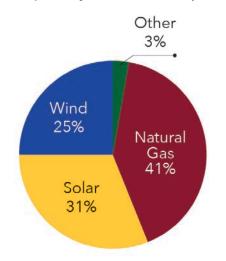
Source: EIA, Electric Power Monthly (December 2018) and Short-Term Energy Outlook (January 2019).

Updated January 2019.

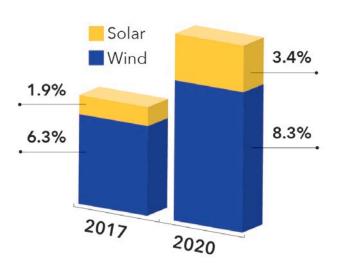


New Capacity Is Mostly Natural Gas, Wind, Solar; Solar and Wind Production Is Increasing

Capacity Additions (2017)

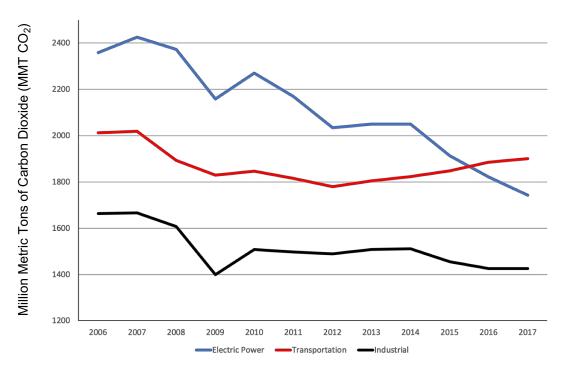


Generation (2017)





CO₂ Emissions: Electric Power, Transportation, and Industrial Sectors

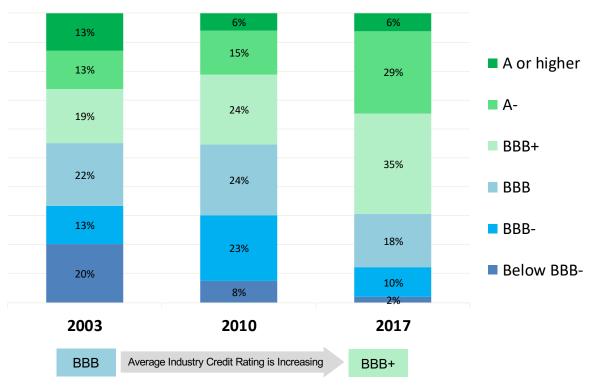


U.S. Electric IOUs Rating History

ΕE

51

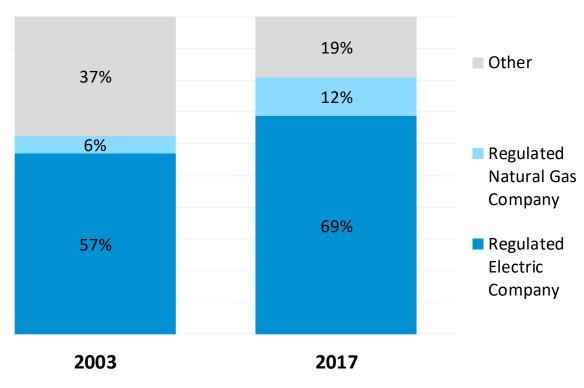
2003-2017



Source: EEI Finance Department.







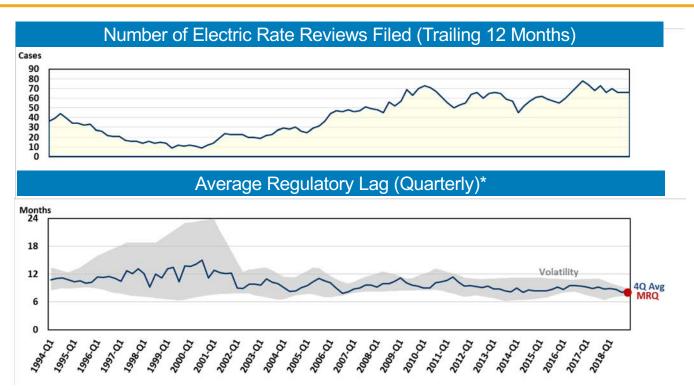
Note: Based on year-end assets.

Source: EEI Finance Department.



Rate Review Activity: Volume and Lag

U.S. Investor-Owned Electric Companies

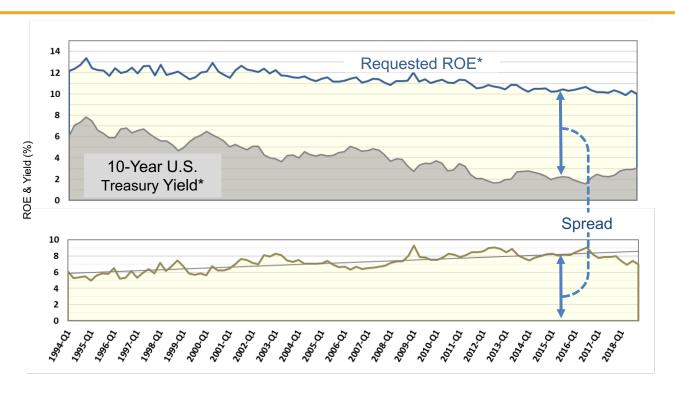


^{*}Average Regulatory Lag is defined here as the amount of time between the filing of and ruling on a rate review. This does not take into consideration the preparation time leading up to an initial filing. MRQ = Most Recent Quarter. 4Q Avg = Trailing four-quarter average.



Rate Review Activity: Average ROEs

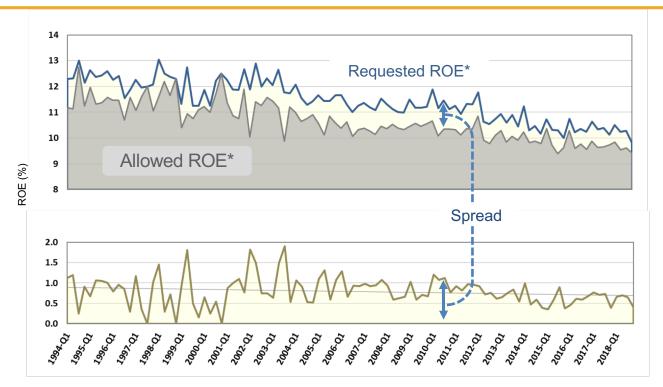
Requested ROE vs. 10-Year U.S. Treasury Yield



^{*}Requested ROE represents the equal-weight average of all electric rate reviews filed during the indicated period. 10-Year U.S. Treasury Yield is the average of daily reported yields during each period.

Rate Review Activity: Average ROEs

Allowed ROE vs. Corresponding Requested ROE

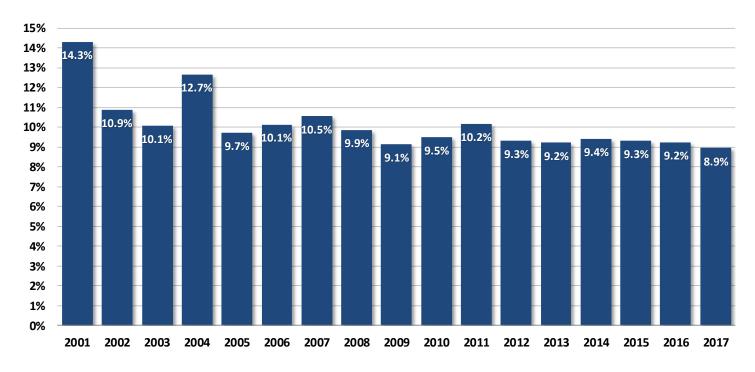


^{*}The Allowed ROE represents the electric rate reviews settled during the indicated period while the Requested ROE represents the value requested by the company when the cases were initially filed, generally during an earlier period (i.e., the regulatory lag is not factored in). Average returns are equal-weight.



Actual Average ROE of Regulated Subsidiaries

U.S. Investor-Owned Electric Companies



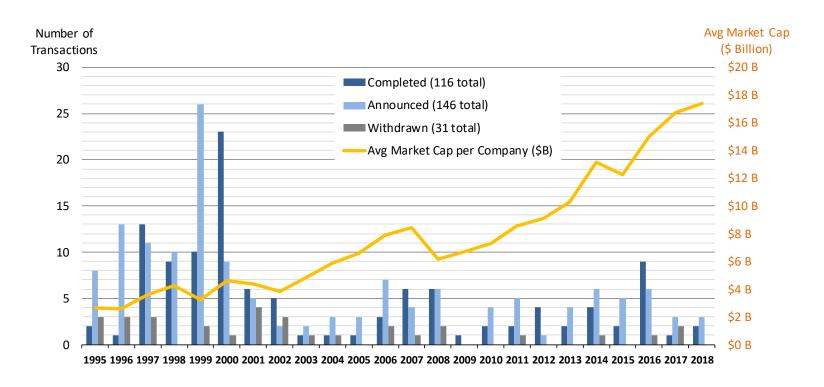
Based on SEC-reported numbers and may differ from results calculated for other regulatory purposes.

Company "universe" is static through history and is defined by active regulated subsidiaries of EEI member companies as of 2017 year-end. Average ROE is a weighted average as it equals the total net income of the industry over the total average common equity balances at the beginning and ending of each year for the industry.

Status of M&A Activity



U.S. Investor-Owned Electric Companies, 1995–2018



EEI Finance Department Resources



Examples of EEI Finance Public Reports & Data

Items updated quarterly unless otherwise indicated

Financial Review (annual)

Incorporates all of the following reports and additional industry material

Stock Performance

 Financial market performance (Price, TSR, etc.) of proprietary EEI member index and equity analyst opinions

Credit Ratings

Holding company ratings & rating agency activity

Dividends

Dividend-related actions of EEI members and relevant issues

Rate Review Summary

Regulatory filings during the quarter and recent / current trends

Industry Consolidated Financial Statements

- Income Statement
- Balance Sheet
- Cash Flow Statement

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