



Today's Natural Gas Story

AGA members have spent more than \$10 billion in safety upgrades

- Historic production and delivery
- 6,000 miles of new pipe (2.5 million existing)
- Added 230,000 customers this year
- CO₂ emissions lowest since 1990s; natural gas customers 4%
- \$1.5 billion invested in energy efficiency (2017)
- Households save \$874 per year
- Businesses saved \$105 billion since 2009





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America's Energy Position

The strongest ever!

- Largest producer of oil, natural gas, refined products, and nuclear generation
- Second largest producer of wind, coal, and solar
- Largest liquid petroleum exporter
- Second largest natural gas exporter
- Energy exports cut trade deficit \$363 billion since 2008
- US exports displacing oil from OPEC and Russia
- Insulating US economy from price spikes
- More than \$200 billion invested in manufacturing





Opportunities & Risks

Opportunities

- Pipeline safety reauthorization
- Permitting reform infrastructure
- Energy innovation research & development

Risks

- Pipeline siting and permitting constraints
- Climate (fossil fuel bans / Green New Deal)



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Enhancing Safety



Natural gas utilities spend \$824 every second on enhancing the safety of natural gas distribution and transmission systems



- Commitment to go beyond regulation and implement Safety Management System Standard API 1173 in three years
- Safety Peer Review Program
- Proactive and post-incident leading practices
- Standards and guidelines
- Strong and effective pipeline safety regulation







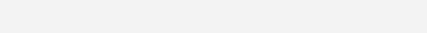
Leading by Example: Peer Reviews

The AGA Peer Review Program is a voluntary safety and operational practices program that allows participating companies to be reviewed by their peers, share leading practices, and identify opportunities to

better serve customers and communities

Each review features a panel of fellow gas utility professionals from North America who provide the company with feedback to help enhance its safety and efficiency

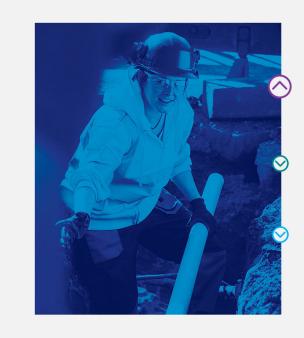
> AGA members that serve 83% of the natural gas customers in the US have participated in a peer review





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Since 1990

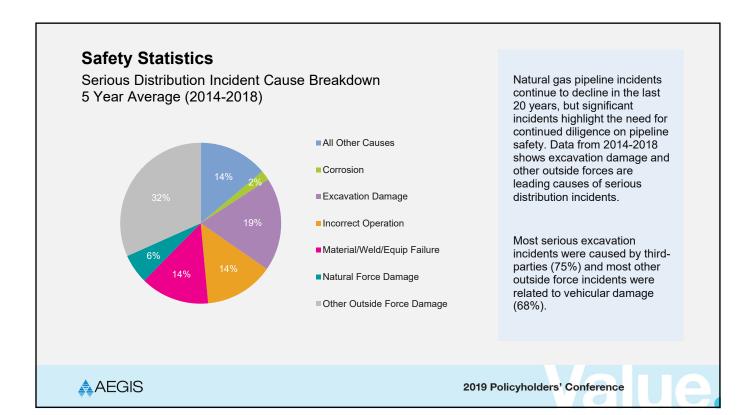
Modern plastic pipelines have increased by 214%

Cast iron pipelines have declined by 58%

50%

Unprotected steel pipelines have decreased by 50%

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Pipeline Safety Act Reauthorization

- Legislated to be reauthorized every four years (2019)
- Generally directs Department of Transportation to study or promulgate rules
- Sets enforcement and fine limits
- Significant incidents often drive mandates



Pipeline Safety Act Reauthorization

Congressional hearings

- House: Transportation and Infrastructure Committee
- House: Energy & Commerce Committee
- Senate: Commerce, Science and Transportation Committee

Senator Markey: "Leonel Rondon Pipeline Safety Act"

Merrimack Valley incident



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- Risks that could lead to or result from operating distribution line above MAOP
- Operators to submit DIMP plans, ER and O&M manuals to state / PHMSA
- PHMSA to audit states to ensure sufficient review
- Intended to require that states pay more attention to the manuals; may give state additional resources



Emergency Response Plans

- Focuses on quicker communication with first responders and public officials
- Establish communication as soon as practicable, but not later than 30 minutes after "gas pipeline emergency"
- Develop voluntary opt-in system to allow rapid communication to customers



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- Focus on Merrimack Valley Incident
 - ✓ Records
 - √ Work oversight
 - ✓ Over-pressurization
 - √ Emergency response
 - ✓ Increased fines/penalties
 - ✓ Transparency
- PHMSA to increase oversight of states
- Industry to take actions beyond legislation





Industry Cyber Programs

- √ Peer Cyber Review Program
- ✓ Cybersecurity Capability Maturity Model (C2M2)
- Downstream Natural Gas Information Sharing and Analysis Center (DNG-ISAC)
- √ Cyber Metrics Program
- √ Participating in cross-sector exercises such as GridEx

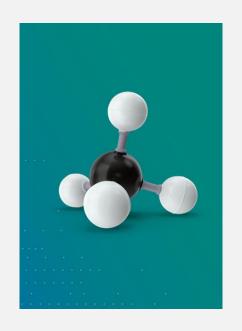




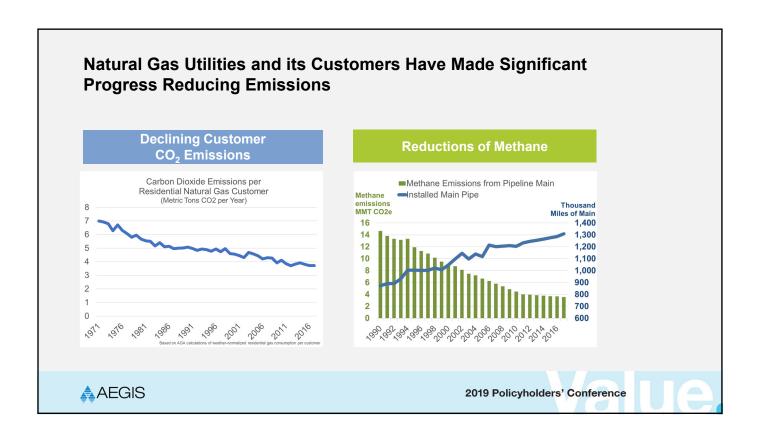
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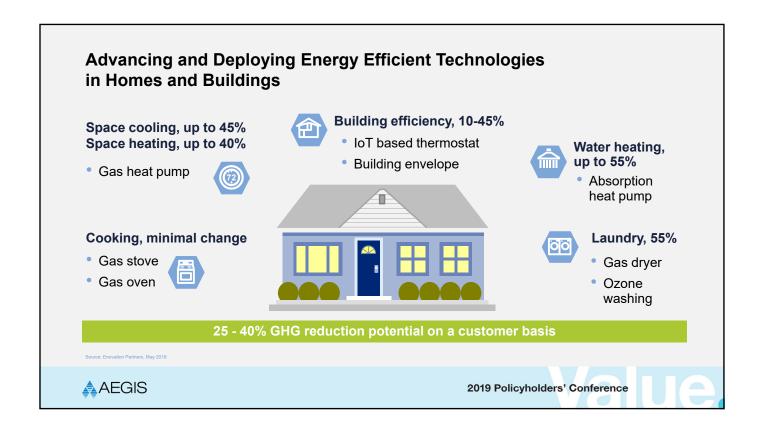
Reducing the Environmental Impact

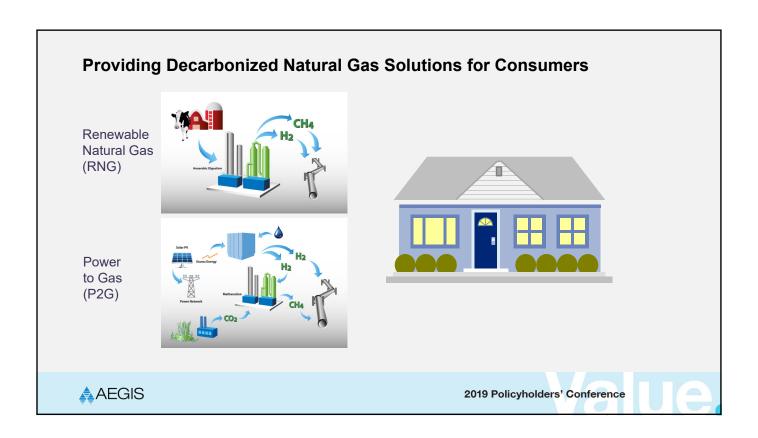
- Voluntary methane emissions best practices
- Technology development
- Research
- Natural Gas Sustainability Initiative

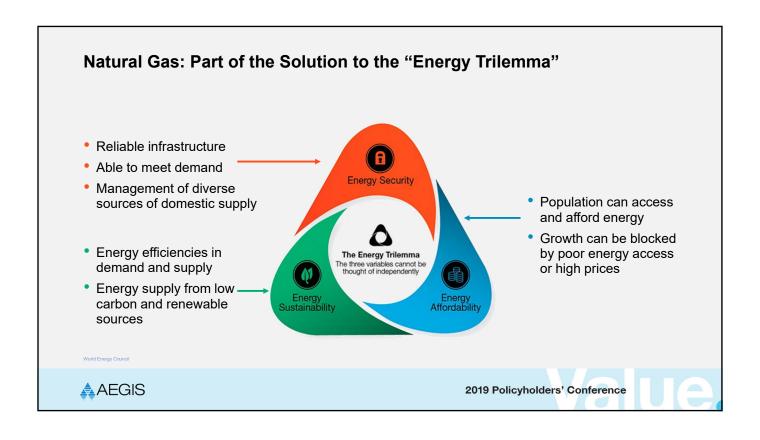


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The commitment of America's natural gas utilities to safety and resilience means that we are a part of the fabric of our communities today.

Our mission to constantly innovate means that we will play a role in our customer's lives and the prosperity of this nation for many generations to come.



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Thank You

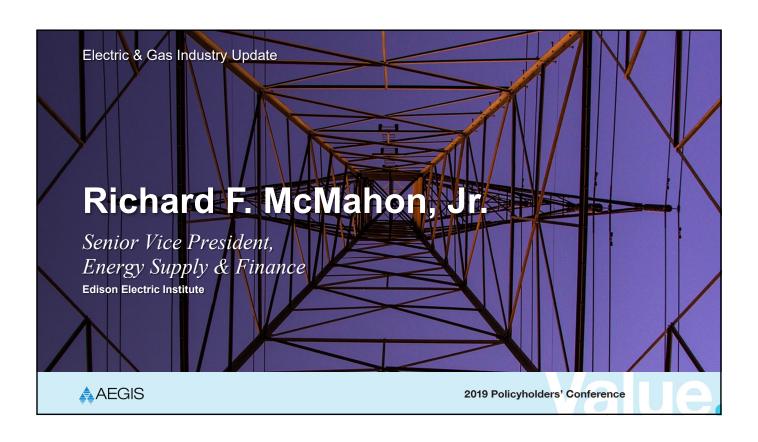
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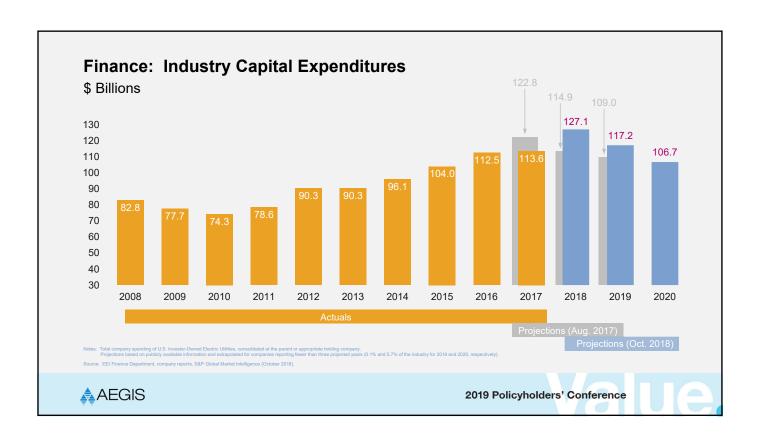


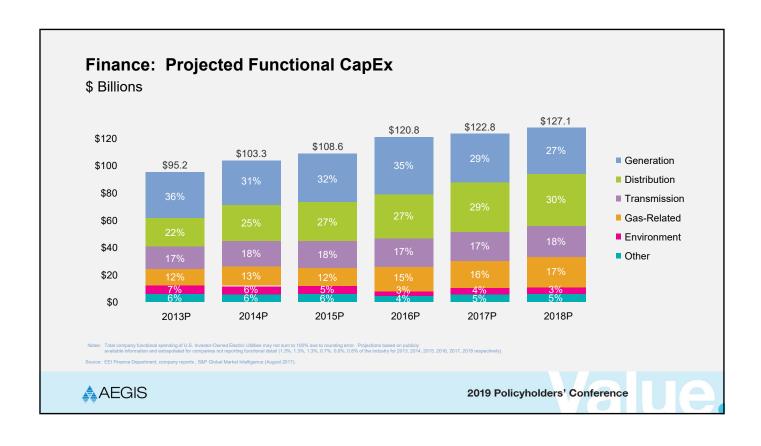


Agenda

- Financial State of the Industry
- ESG / Sustainability and the Natural Gas Sustainability Initiative (NGSI)
- Clean Energy Transformation





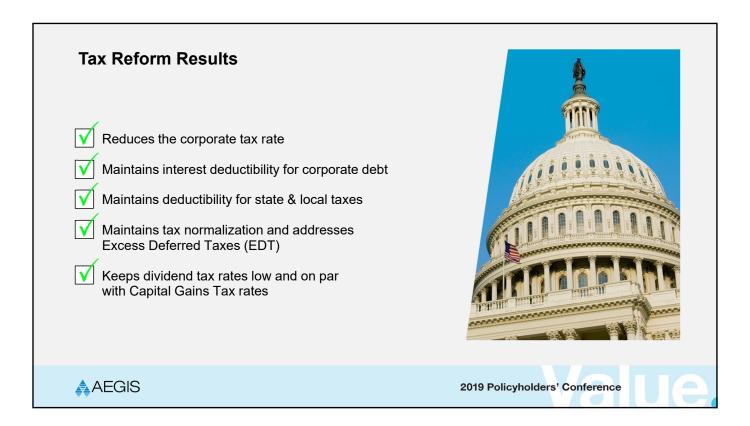


Financial Highlights

As of December 31, 2018

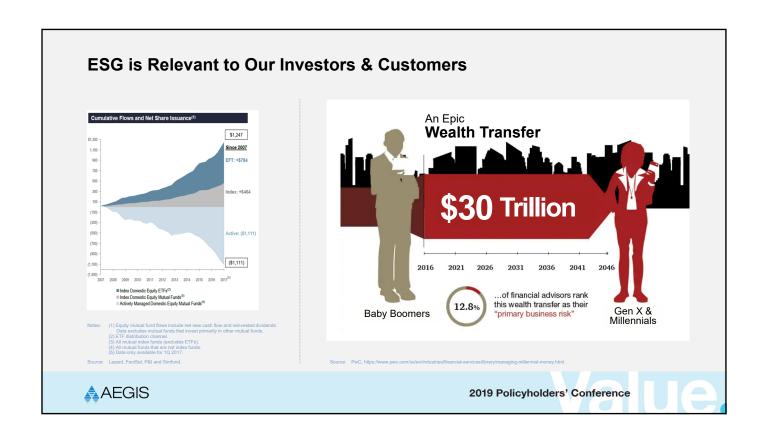
Stock Performance as of 3-31-2019		EEI Index	DJIA	S&P 500	NASDAQ
	1-year	18.7%	10.1%	9.5%	9.4%
	3-year	29.5%	57.6%	46.3%	58.7%
	5-year	69.1%	77.9%	67.8%	84.1%
	10-year	239.5%	339.9%	338.1%	404.7%
Dividends	 Yield = 3.4% 41 of 42 companies currently paying a dividend 39 of 42 companies increased dividend rate in 2018 				
Credit Ratings	Strengthening 'BBB+' averageOutlook 77% stable or positive				





Level-Setting on Environment, Social and Governance (ESG) Example ESG topics Governance Environmental GHG & energy use Community impacts Board diversity Economic contributions Board experience Air quality Health & safety Coal ash Independence Grid reliability Water stewardship Incentives & compensation Lobbying Energy efficiency Tax strategy Supply-chain impacts

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ESG / Sustainability Template

EEI's ESG / Sustainability Steering Committee identified five areas of focus based on discussions with investors to include in the Version 1 Template

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

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

Version 2 – LDC Metrics

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

Qualitative

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Natural Gas Sustainability Initiative (NGSI)

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





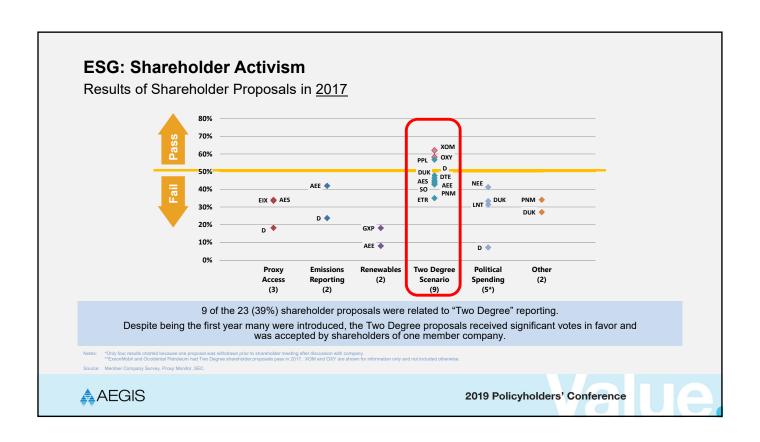


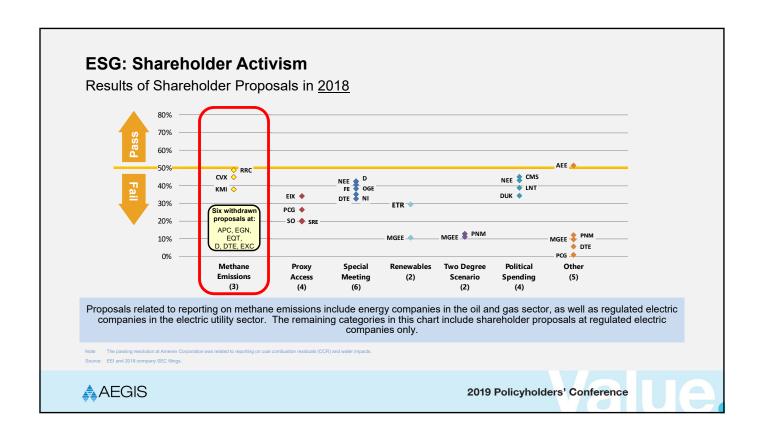


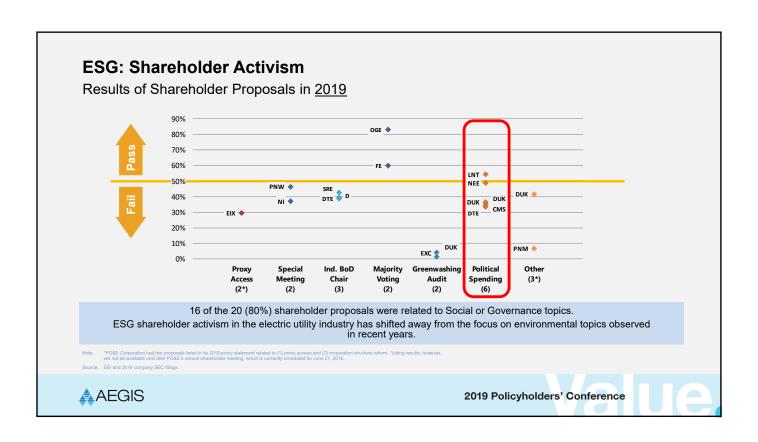


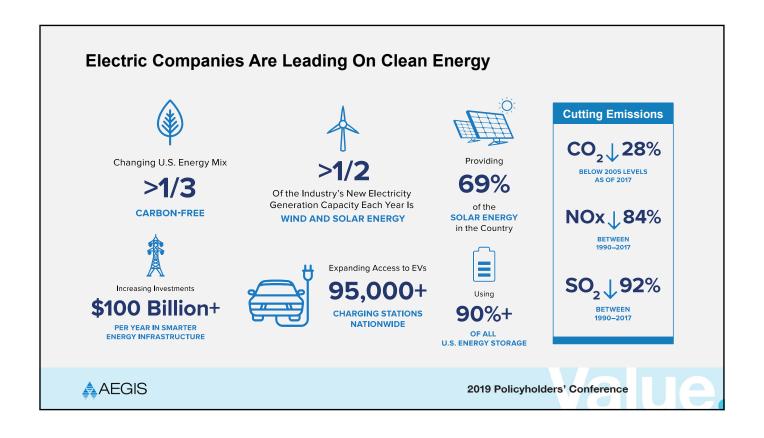


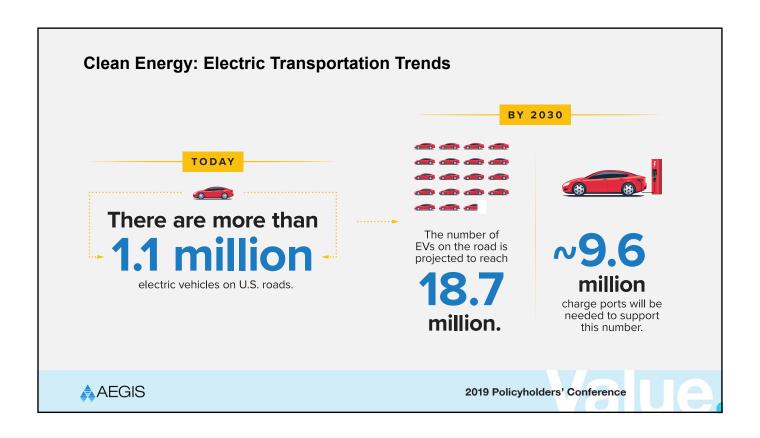
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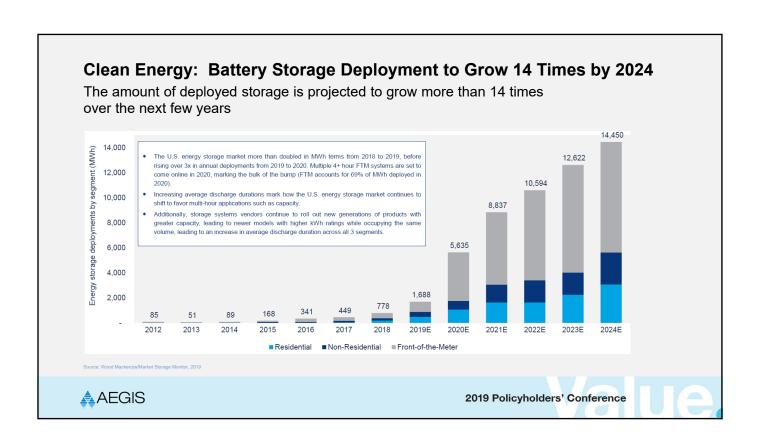






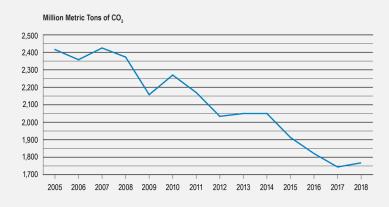






Clean Energy: US Power Sector Carbon Dioxide Emissions (2005-2018)

- More than one third of US electricity comes from carbon-free sources
- As of 2018, industry CO₂ emissions were 27 percent below 2005 levels
- Reductions are expected to continue based on current trends



cource: Developed from U.S. Energy Information Administration, Monthly Energy Review, March 2019



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Recap

- Industry financial fundamentals remain strong, including the benefits of TRJA
- EEI member companies are leading on ESG and sustainability
- Electric power industry is driving the clean energy transformation





Thank You

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