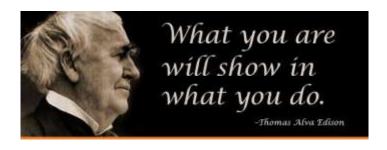


The Clean Energy Transformation





The Edison Electric Institute (EEI) is the association that represents all U.S. investor-owned electric companies. Our members provide electricity for 220 million Americans, and operate in all 50 states and the District of Columbia. As a whole, the electric power industry supports more than 7 million jobs in communities across the United States. In addition to our U.S. members, EEI has more than 60 international electric companies as International Members, and hundreds of industry suppliers and related organizations as Associate Members.

Organized in 1933, EEI provides public policy leadership, strategic business intelligence, and essential conferences and forums.

ELECTRIC COMPANIES ARE

Leading on Clean Energy



Changing U.S. Energy Mix

>1/3

CARBON-FREE



Over the Past Five Years. More Than Half of New Electricity Generation Capacity Was WIND AND SOLAR



Providina

69%

SOLAR ENERGY in the Country



90%+

OF ALL U.S. ENERGY STORAGE



of the

Usina

BETWEEN 1990-2018

Cutting Emissions

CO₂ 27%

BELOW 2005 LEVELS

AS OF 2018

NOx J. 84%

BETWEEN 1990-2018

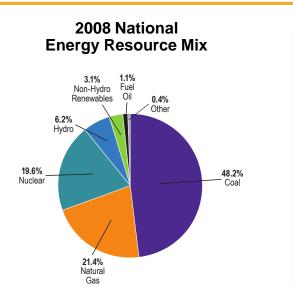




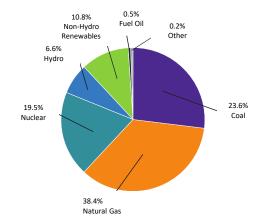
CHARGING STATIONS NATIONWIDE

Expanding Access to EVs

Mix of Resources Used to Generate Electricity Has Changed Dramatically



2019 National Energy Resource Mix (Preliminary)



Source: U.S. Department of Energy, Energy Information Administration. Percentages reflect Megawatt hours.

2019 Preliminary includes data January-November

REDUCING CARBON EMISSIONS SIGNIFICANTLY



CARBON DIOXIDE EMISSIONS

127%

As of year-end 2018, our industry's carbon dioxide emissions were 27% below 2005 levels—nearly the lowest level in 3 decades.

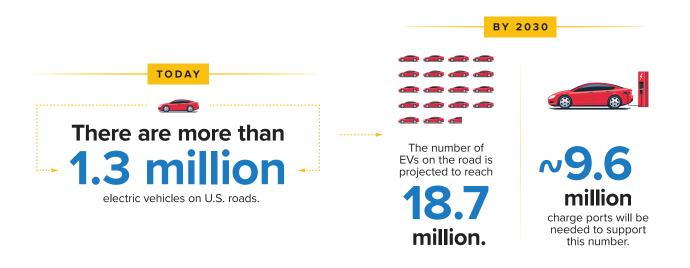


CARBON DIOXIDE EMISSIONS

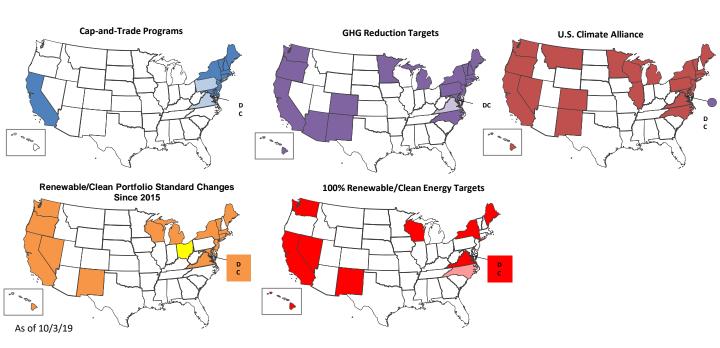
150%

Based on projected trends and member goals, CO₂ emissions from EEI members are projected to be approximately 50% below 2005 levels by 2030.

Promoting Electric Transportation



Policy Trends





2019 Was a Watershed Year for Clean Energy Commitments from U.S. States and Utilities



freall field generation and transition to sem-curbon electricity production to the

Clean Energy Milestones 32% 200 32% 2

PARTITIONS - SERVICE PLACES & SPECIES CARTIES

More Utilities Make Big Commitments to Climate Action

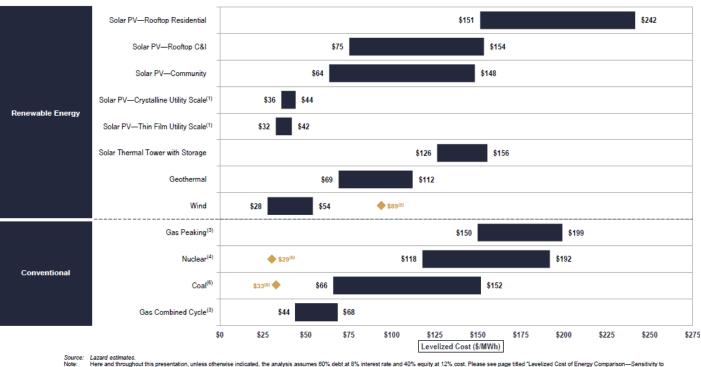
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When Problem Thing proposed to all has the Class Place Place The study over past articles and explace I with the solyto has its coming (only Place Place) the sale workers can't fine Astronomy Class Place I have been a subject to the soliton of the Astronomy Class Place I have been considered to the soliton power pasts from wood and only one fit code companies. Out discussive execute providers from members of the soliton of the soliton pasts of the soliton pasts of the soliton pasts of the soliton pasts of the soliton past of the soliton pas

Levelized Cost of Energy Comparison—Unsubsidized Analysis

Selected renewable energy generation technologies are cost-competitive with conventional generation technologies under certain circumstances



Here and throughout this presentation, unless otherwise indicated, the analysis assumes 60% debt at 5% interest rate and 40% equity at 1.2% cost. Please see page titled 1.evelized Cost of therity Comparison—Sensitivity of Capital in for cost of Capital is ensitivities. These results are not intended to represent any particular geography. Please see page titled "Solar PV versus Gas Peaking and Wind versus CCGT—Global Markets" for regional sensitives to selected technologies.

Unless otherwise indicated herein, the low end represents a single-axis tracking system and the high end represents a fixed-tilt system.

Unless otherwise indicated herein, the low end represents the estimated implied midpoint of the LCOE of offshore wind, assuming a capital cost range of approximately \$2.33 – \$3.53 per watt. The fuel cost assumption for Lazard's global, unsubstidzed analysis for gast-fired generation resources is \$3.45MMBTU.

(1) (2)

(3)

Unless otherwise indicated, the analysis herein does not reflect decommissioning costs, ongoing maintenance-related capital expenditures or the potential economic impacts of federal loan guarantees or other subsidies. Represents the midpoint of the marginal cost of operating coal and nuclear facilities, inclusives of ecommissioning costs for nuclear facilities. Analysis assumes that the salvage value for a decommissioned coal plant is equivalent to its decommissioning and site restoration costs. Inputs are derived from a benchmark of operating coal and nuclear assets across the U.S. Capacity factors, shell and variable and fixed operating expenses are based on upper and lower outlite estimates derived from Lazard's research. Please see accept left of Levelied Cost of Eneror Consistence C

High end incorporates 90% carbon capture and compression. Does not include cost of transportation and storage.

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The Path Forward

To ensure that the clean energy transformation reaches its full potential, public policies should put customers first, focus on outcomes, support progress, and accelerate innovation. And, policymakers should:

- Increase research and development funding and support for the range of technologies
 needed to achieve clean energy goals, including energy efficiency, energy storage, renewables,
 existing and next-generation nuclear, other carbon-free technologies, and carbon capture
 utilization and storage.
- Help to electrify the transportation sector—recognizing that transportation emissions now are the largest source of emissions in the United States—by modernizing federal transportation programs to encourage investments in electric transportation and charging infrastructure. Transportation electrification provides an opportunity to leverage the reductions in power sector emissions to achieve reductions in transportation sector emissions.
- Support ongoing investments in the energy grid, which are necessary to increase costeffective electrification and to integrate advanced clean energy technologies reliably and affordably.
- Encourage the development of more robust battery technologies for both electric vehicles and energy storage.

With the right policies in place, electric companies can further reduce their emissions, help dramatically reduce the most significant emissions from other industries, and deliver the clean energy future that Americans want and expect.

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