About EESI...

NON-PROFIT
Founded in 1984 by bipartisan Congressional caucus as independent (i.e., not federally-funded) non-profit organization

NON-PARTISAN
Source of non-partisan information on environmental, energy, and climate policies

DIRECT ASSISTANCE
In addition to full portfolio of federal policy work, EESI provides direct assistance to utilities to develop “on-bill financing” programs

SUSTAINABLE SOCIETIES
Focused on win-win solutions to make our energy, buildings, and transportation sectors sustainable, resilient, and more equitable
...About EESI

**BRIEFING WEBCASTS**
Live and archived video recordings of public briefings and written summaries

**CLIMATE CHANGE SOLUTIONS**
Bi-weekly newsletter with all you need to know including a legislation tracker

**SOCIAL MEDIA (@EESIONLINE)**
Follow us on Twitter, Facebook, LinkedIn, and YouTube

**FACT SHEETS**
Timely, objective coverage climate and clean energy topics
A decarbonized, clean energy future: more affordable, accessible, and equitable

TIME TO ACT IS NOW
We must do better, lead by example, and foster diversity in climate policy

OUR FUTURE DEPENDS ON IT
Everyone must realize benefit; costs must not be unfairly borne by disadvantaged communities

BEFORE IT IS TOO LATE
If temperatures keep rising, front-line communities will continue to suffer disproportionately
Climate Policy Principles...

1. The urgency of climate change demands near-term actions as longer-term policies are developed and implemented
   - No time to waste while crafting, enacting, and implementing new climate change policies, there are significant opportunities to:
     - Maximize energy efficiency and deploy renewable energy and storage systems
     - Invest in infrastructure and grid modernization
     - Research, develop, and pilot new technology
1. The urgency of climate change demands near-term actions as longer-term policies are developed and implemented

- Many valuable, smaller-scale and -scope proposals could be implemented now with bipartisan support:
  - Building energy codes and incentives for net-zero new construction
  - Private-sector financing to lower energy consumption in federal buildings
  - New technologies incubation and pathways to market

“Tick tock...”
2. Reducing the risks of and adapting to the frequency, magnitude, and severity of the worst climate change outcomes will require a cohesive, coordinated set of policies that are complex and interconnected

- With limited time and resources, worst approach would be haphazard—zigzagging, based on whims and influence of special interests
- Emissions reductions now will facilitate larger-scale, sector- and economy-wide policies to follow
2. Reducing the risks of and adapting to the frequency, magnitude, and severity of the worst climate change outcomes will require a cohesive, coordinated set of policies that are complex and interconnected

- Staging and progression of policies with optimization in mind is critical to ensure that:
  - Investments reinforce policies and policies incentivize investments
  - Prevent potential conflicts; avoid redundancies
- Prioritize solutions that advance mitigation and adaptation, such as distributed energy resources and wetland restoration
3. The federal government should recognize and support efforts by state and local governments to reduce GHG emissions and implement measures for climate change adaptation

- Not every available policy is federal—state and local governments must also be part of overall strategy to avoid worst outcomes of climate change:
  - Energy efficiency and renewable energy portfolio standards
  - Financing
  - Education, training, and workforce development
3. The federal government should recognize and support efforts by state and local governments to reduce GHG emissions and implement measures for climate change adaptation

- State and local governments better understand the strengths and needs of their constituents, including those who live in communities:
  - On front lines of drought, extreme heat, wildfires, flooding, and sea level rise
  - That have endured detrimental planning and underinvestment in affordable housing, transportation, and other infrastructure
Climate Policy Priorities...

Cross-cutting policies to transform the economy...starting with the energy sector

- Carbon pricing must be:
  - Revenue-generating
  - Unburdensome, non-punitive for disadvantaged communities
  - Implemented along with sector-specific incentives to encourage self-reinforcing progress:
- Border tax adjustment to insulate domestic manufacturers of carbon-intensive goods from imports from countries without price on carbon
Cross-cutting policies to transform the economy…starting with the energy sector

- End to fossil fuel subsidies
  - Reallocate direct subsidies (20% to coal, 80% to natural gas) worth $20 billion per year to encourage clean energy investment
  - Recognize and internalize full range of costs of fossil fuel use, including externalities and adverse environmental and public health annual impacts totaling up to: $5.3 trillion
Sector-specific policies to incentivize and remove barriers to investment

- Transportation
  - Roll back rollback of fuel economy standards
  - Deploy EV charging infrastructure
  - Research aviation propulsion and lower-emitting biofuels
...Climate Policy Priorities...

Sector-specific policies to incentivize and remove barriers to investment

- Electric power
  - Roll back rollbacks of appliance, equipment, and lighting standards
  - Deploy smart grid and rural broadband infrastructure
  - Institute national minimum energy efficiency and renewable energy portfolio standards
...Climate Policy Priorities

**Sector-specific policies to incentivize and remove barriers to investment**

- **Buildings**
  - Adopt energy codes for net-zero minimum new construction by 2050
  - Incentivize and provide financing for home retrofits and clean energy installations
  - Train a 21st Century clean energy workforce skilled in improving and managing grid-interactive buildings
Getting Started...

Maximize investments in energy efficiency to optimize rapid clean energy deployment

START WITH FEDERAL BUILDINGS
Implement every cost-effective energy efficiency project in every federal building

LEVERAGE SAVINGS TO DO MORE
Reinvest project savings to install distributed energy resources to improve resilience

SUPPORT CLEAN ENERGY JOBS
Robust project pipeline creates and sustains demand for workers; strong outlook justifies investments in training
...Getting Started...

Acknowledge the scale and scope of the challenge and leverage innovative financing

INNOVATE TO LOWER HURDLES
On-bill financing helps overcome split-incentives, improve access to data, and tie together audit and rebate programs

INNOVATE TO ATTRACT CAPITAL
Limited, low-cost public-sector resources can protect against losses, reduce risk for private-sector partners

INNOVATE TO MAXIMIZE SAVINGS
On-bill and PACE financing can transfer to later owners and occupants, allowing longer repayment terms
...Getting Started...

Understand and accommodate the non-technical barriers to clean energy deployment

HELP HOMEOWNERS
Lack of information and transparency prevents fair and proper valuation of return-on-investment and savings

HELP SMALL BUSINESSES
Technical assistance promote savings durability—energy costs are not fixed costs—energy use can be managed

HELP FUTURE OCCUPANTS
Buildings will be in use for several decades—build energy-efficient, build solar-ready, and build EV-ready
Listen to what Steve is about to say

NO SPOILERS FOR STEVE’S PRESENTATION, BUT...

...HE KNOWS A LOT ABOUT THIS...

...AND HAS NUMBERS TO PROVE IT
THANK YOU