“PARTNERSHIP FOR ENERGY SECTOR CLIMATE RESILIENCE”

National Summit on Smart Grid & Climate Change – October 13, 015

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DOE Drivers Related to Energy Sector Climate Resilience

- Supporting the President’s Climate Action Plan and Policies
  - Focus on Climate Resilience
  - Enabling Executive Orders:
    - EO 13653 *Preparing the United States for the Impacts of Climate Change*
    - EO 13667 *Climate-Resilient International Development*

- Conducting the Quadrennial Energy Review

- Addressing climate change resilience through collaboration with stakeholders, including the *Partnership for Energy Sector Climate Resilience*
Goals and Objectives of the Partnership

- Provides a mechanism for sustained engagement between DOE and energy companies, starting with electric utilities to:
  - Exchange information (e.g., user-friendly climate data, decision tools) and best practices
  - Provide methodologies and assess cost and benefits of climate resilience
  - Assess incentives and disincentives associated with regulations and policies; Develop metrics for assessing vulnerabilities, and, Identify opportunities for deployment of climate-resilient energy technologies, practices and policies

- Partners commit to:
  - Identify priority vulnerabilities to electricity infrastructure
  - Identify and pursue priority climate resilience strategies
  - Report on climate resilience activities implemented, milestones accomplished, and progress in enhanced energy climate resilience

- Creates a forum where companies pursuing action on climate resilience can receive recognition for their achievements.
Progress to Date

- Partnership for Energy Sector Climate Resilience announced on April 21, 2015 by Vice President Biden and Energy Secretary Moniz

- Secretary Moniz Hosted “Roundtable” with member CEO’s to discuss goals and objectives, gaps, and opportunities for collaboration

- 18 power companies have officially joined the Partnership
  - Represents approximately 20% of U.S. Generating Capacity, and serve approximately 25% of U.S. customers
  - Includes broad array of investor-owned, federal, state, municipal and cooperatives
  - Represents a geographically dispersed set of power companies
Partnership for Energy Sector Climate Resilience: Members

Investor-Owned
- Consolidated Edison of New York
- Dominion/Virginia Power
- Entergy
- Exelon Corporation
- Iberdrola USA
- National Grid
- Pacific Gas and Electric
- Pepco Holdings Inc.
- Public Service Electric and Gas
- San Diego Gas and Electric/Sempra
- Southern California Edison
- Xcel Energy

State/Municipal
- New York Power Authority
- Seattle City Light
- Sacramento Municipal Utility District

Federal
- TVA

Cooperative
- Great River Energy
- Hoosier Energy
Partnership for Energy Sector Climate Resilience: 
Member Locations
Conduct outreach to other potential partners to expand upon the current 18 Partners

Conduct Series of Partnership webinars, meetings, workshops

- Discuss company approaches to assessing climate change and vulnerabilities; and making the case for resilience solutions
- Discuss Federal Resources (e.g., information, tools, etc.,) available to power companies
- Conduct workshop on costs and benefits of climate resilience

Identify and conduct near-term priority work streams
Assessing Vulnerabilities to Extreme Weather and Climate Change

- Developing and deploying guidance, methodologies, tools, best practices and other relevant information to assist companies conducting vulnerability assessments and developing resilience strategies.

Making the Case for Costs and Benefits of Resilience Investments

- Develop a generalized methodology for characterizing costs and benefits of resilience investments related to climate change and extreme weather – initial focus on coastal energy infrastructure.

- Develop case studies targeting specific climate change risks and resilience investments:
  - SLR, storm surge and hurricanes/coastal energy infrastructure
  - Drought and heat waves/inland energy infrastructure
Additional technical information and assistance activities

- **DOE Technical Reports:**
  - *Climate Change and the U.S. Energy Sector: Regional Vulnerabilities and Resilience Solutions –September*  
    [http://www.energy.gov/sites/prod/files/2015/10/f27/Regional_Climate_Vulnerabilities_and_Resilience_Solutions_0.pdf](http://www.energy.gov/sites/prod/files/2015/10/f27/Regional_Climate_Vulnerabilities_and_Resilience_Solutions_0.pdf)

- **Information and tools:** ‘Energy and Infrastructure Resilience” theme’ of the U.S. Climate Resilience Toolkit:  

- **Guide for conducting vulnerability assessments and developing climate resilience strategies**
Contact

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❖ Partnership Website:
  http://www.energy.gov/epsa/partnership-energy-sector-climate-resilience