



**“PARTNERSHIP FOR ENERGY SECTOR
CLIMATE RESILIENCE”**

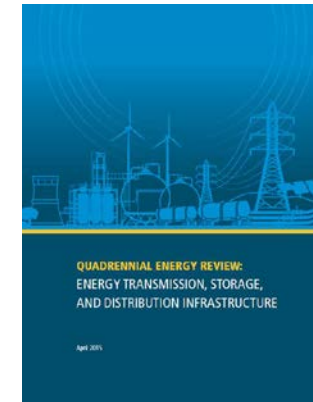
National Summit on Smart Grid & Climate Change
– October 13, 015

JUDI GREENWALD
Deputy Director for Climate,
Environment and Efficiency
U.S. Department of Energy

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 Identify 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

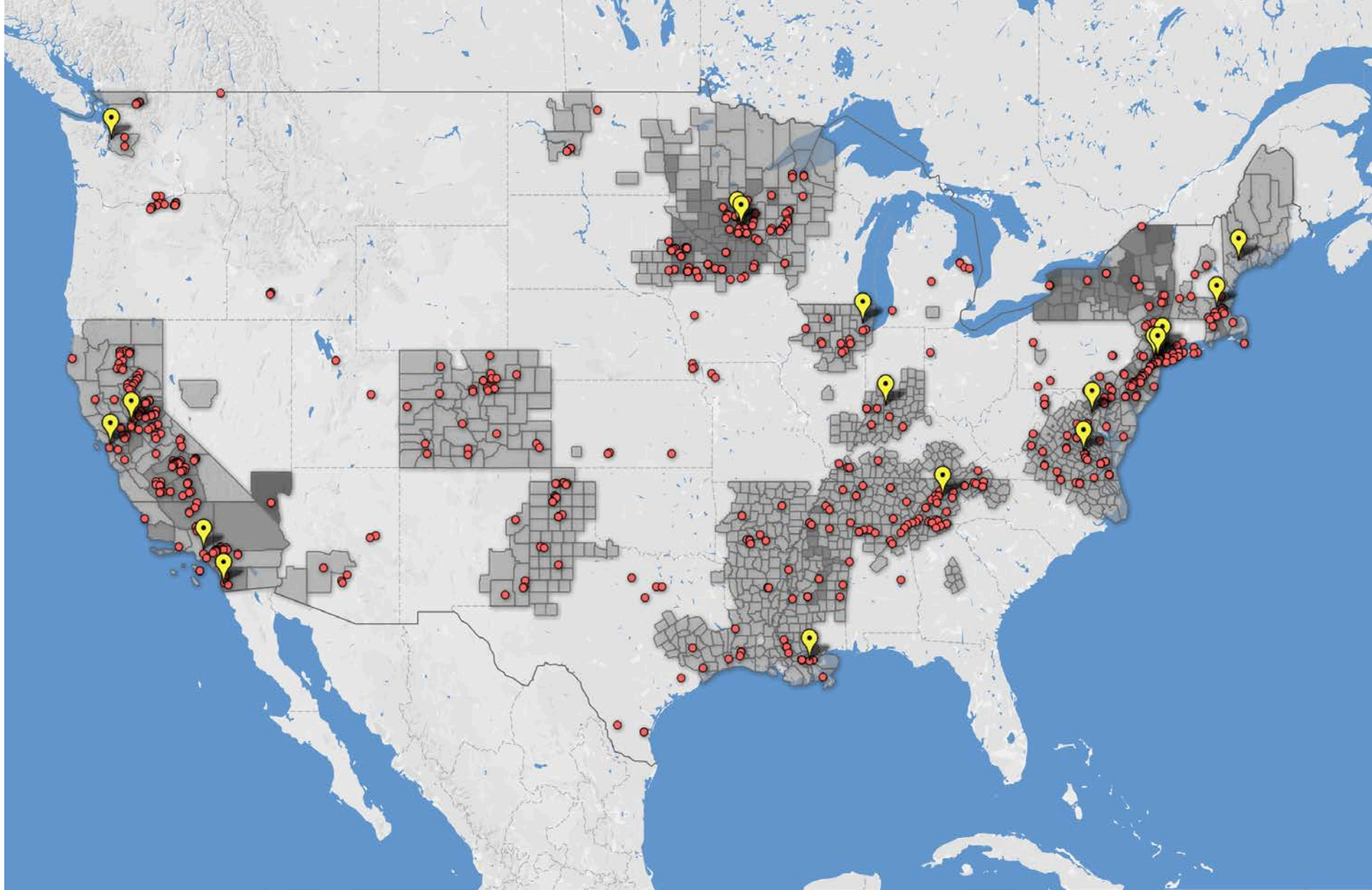
Federal

- TVA

Cooperative

- Great River Energy
- Hoosier Energy

Partnership for Energy Sector Climate Resilience: Member Locations



Next Steps

- 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

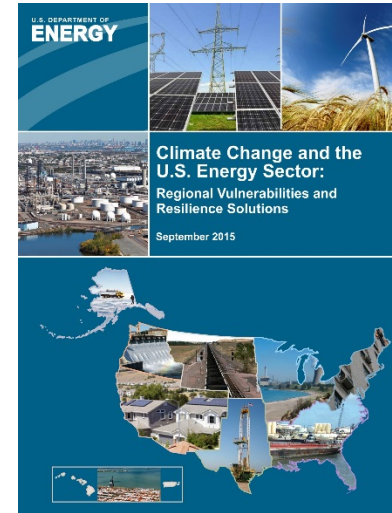
- ❑ **Making the Case for Costs and Benefits of Resilience Investments**
 - ✓ Develop a generalized methodology for characterizing costs and benefits of resilience investments related to climate change and extreme weather – initial focus on coastal energy infrastructure
 - ✓ Develop case studies targeting 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:**

<http://www.data.gov/climate/energy-infrastructure>

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

For Additional Information

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