State & Federal Energy Storage Technology Advancement Partnership (ESTAP)

Todd Olinsky-Paul Clean Energy States Alliance

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Thank You:

Dr. Imre Gyuk

U.S. Department of Energy,
Office of Electricity Delivery and
Energy Reliability

Dan BorneoSandia National Laboratories







ESTAP is a project of CESA

Clean Energy States Alliance (CESA) is a non-profit organization providing a forum for states to work together to implement effective clean energy policies & programs:

- Information Exchange
- Partnership Development
- Joint Projects (National RPS Collaborative, Interstate Turbine Advisory Council)
- Clean Energy Program Design & Evaluations
- Analysis and Reports

CESA is supported by a coalition of states and public utilities representing the leading U.S. public clean energy programs.





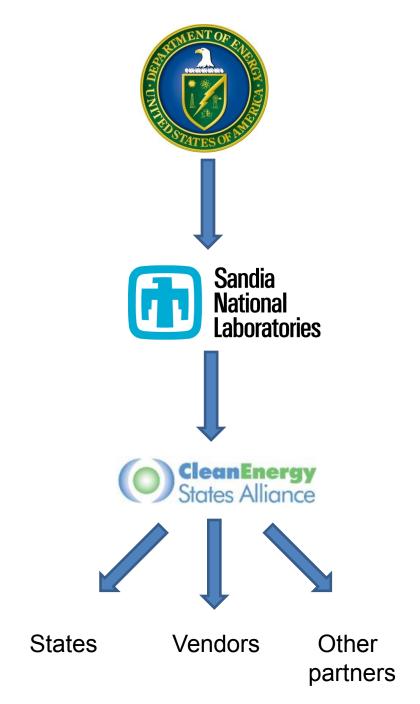


ESTAP* Overview

Purpose: Create new DOE-state energy storage partnerships and advance energy storage, with technical assistance from Sandia National Laboratories

Focus: Distributed electrical energy storage technologies

Outcome: Near-term and ongoing project deployments across the U.S. with co-funding from states, project partners, and DOE



^{* (}Energy Storage Technology Advancement Partnership)

Why work with states?

Surveys Indicate Strong State Interest in Storage

• 75% of states responding "very interested" in collaborating on energy storage technology projects with DOE, especially commercial & demonstration projects.

States Have Resources

- From 1998-2009, state clean energy funds incentivized 70,000 projects 3 GW of installed capacity with \$2.7b
- With Renewable Energy Public Benefit Funds alone (18 states & DC), states will spend \$7.8b by 2017

States Are Important Partners

- Many state partners also have jurisdiction over utilities, resource planning, transmission and project siting, etc.
- State-stakeholder partnerships can ignite project ideas and creative funding arrangements

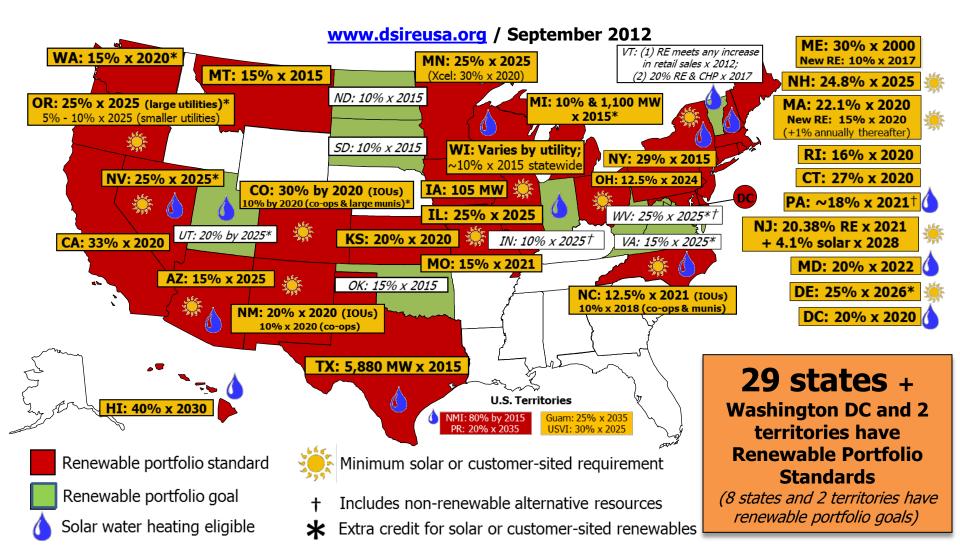








States with Renewable Portfolio Standards

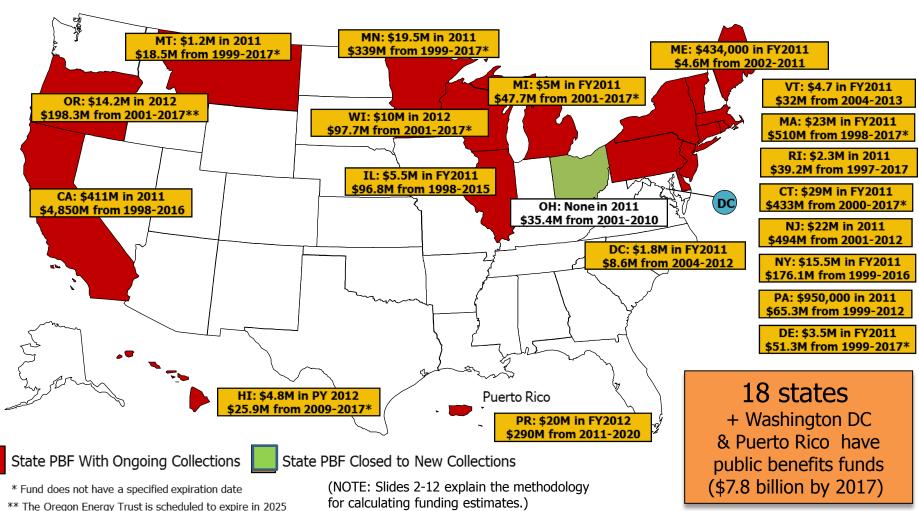








States with Public Benefits Funds for Renewables



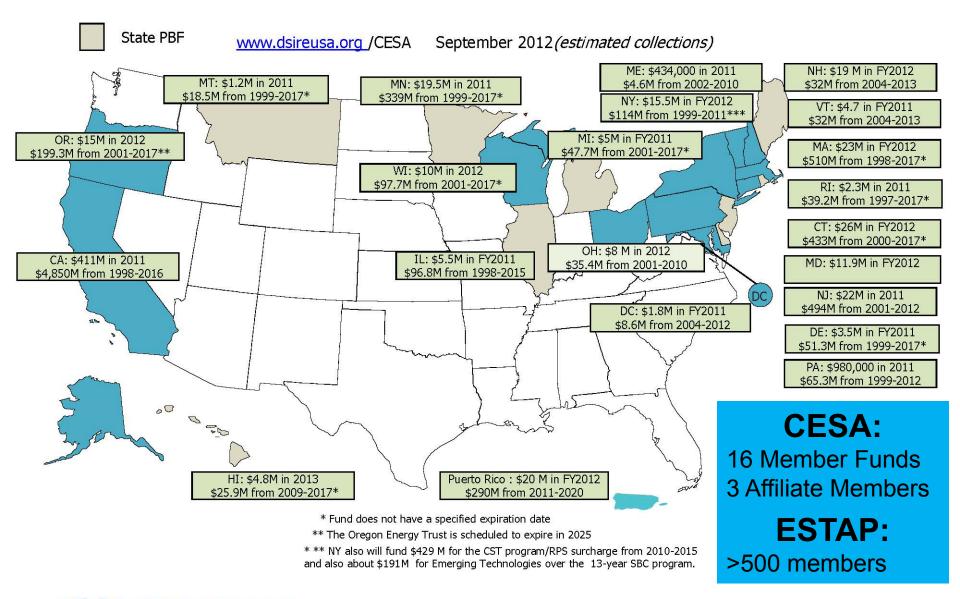


for calculating funding estimates.)





CESA Member Renewable Energy Funds









ESTAP Key Activities

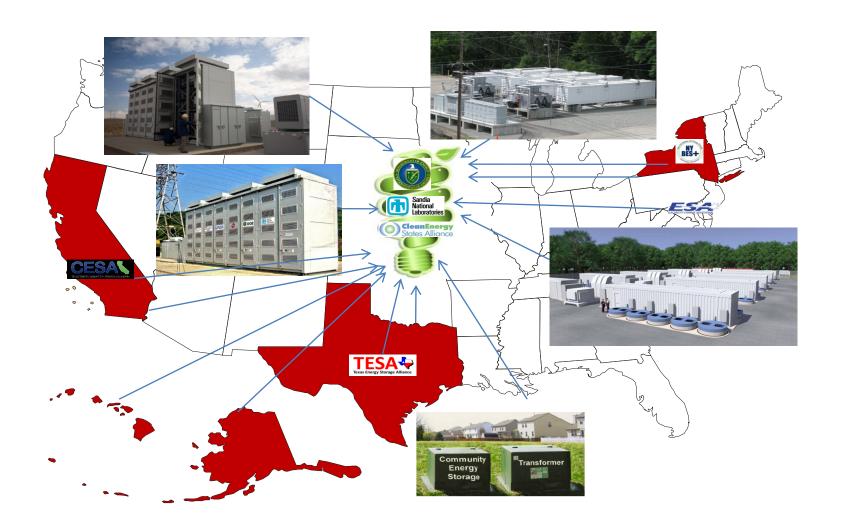
- Disseminate information to stakeholders
 - ESTAP listserv >500 members
 - Webinars, conferences, information updates, surveys
- Facilitate public/private partnerships at state level to support energy storage demonstration project development
 - Match bench-tested energy storage technologies with state hosts for demonstration project deployment
 - DOE/Sandia provide \$ for generic engineering, monitoring and assessment
 - Cost share \$ from states, utilities, foundations, other stakeholders







Goal: To get from Here...

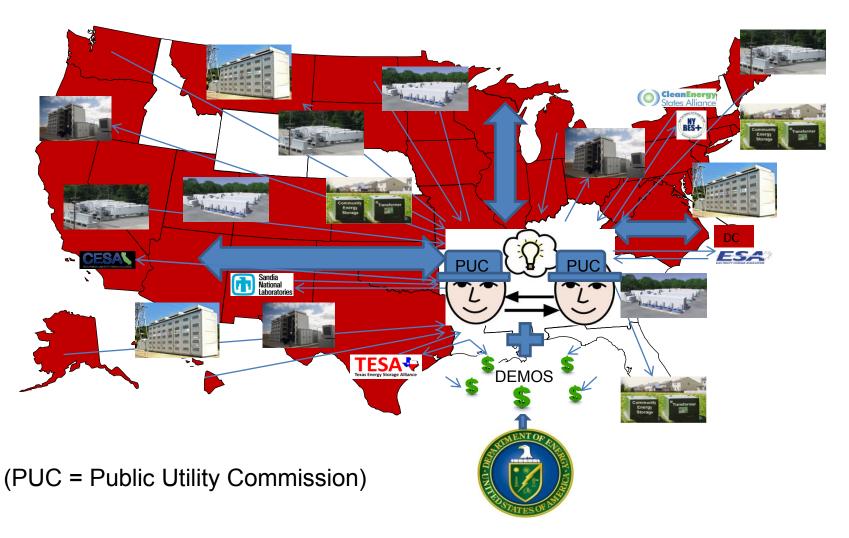








...To Here!









Contact Information

Project website:

<u>www.cleanenergystates.org/projects/energy-storage-technology-advancement-partnership/</u>

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