

DOE OFFICE OF INDIAN ENERGY

# Program Overview

February 22, 2017

Chris Deschene, Director



U.S. DEPARTMENT OF  
**ENERGY**

Office of  
Indian Energy

# Reality of 567 Federally Recognized Tribes

Staggering gaps between Indian Country and the rest of the U.S.



American Indian and Alaska Native households in large tribal areas are more than **3 times** as likely to live in **overcrowded housing** and more than **11 times** as likely to live in housing without adequate plumbing



**Poverty and unemployment rates** among American Indian and Alaska Natives living in tribal areas in 2006–2010 were at least **twice as high** as those among non-Indians nationally



Ready access to electricity is still considered a luxury in many tribal communities ... as many as **15,000 Navajo homes** — about **30%** — **still lack electricity**



More than **175 remote Alaska village populations** rely almost exclusively on diesel fuel for electricity generation and heating oil for heat. In some rural Alaska communities, electricity costs exceed **\$1.00/kilowatt-hour (kWh)** — more than **8 times** the national average of **\$0.12/kWh**



# Office of Indian Energy Policy & Programs



## Our Mission

To maximize the development and deployment of energy solutions for the benefit of American Indians and Alaska Natives

## Our Vision

To be the premier federal office for providing tribal communities and Alaska Native villages with the knowledge, skills and resources needed to implement successful strategic energy solutions

# Office of Indian Energy Policy & Programs

## Energy Policy Act Of 2005

**Authorizes and directs DOE's Office of Indian Energy to provide, direct, foster, coordinate, and implement energy planning, education, management, and conservation, including:**

- **Promote Indian tribal energy development, efficiency, and use**
- **Reduce or stabilize energy costs**
- **Enhance and strengthen Indian tribal energy and economic infrastructure relating to natural resource development and electrification**
- **Bring electrical power and service to Indian land and the homes of tribal members.**



**Rosebud Sioux's (SD) Little Soldier Turbine**  
(First 750-kW turbine on tribal lands in contiguous United States)

# Goals and Objectives

## DOE Under Secretary for Science and Energy Goal

**Goal 1:** Develop and implement a comprehensive strategy for the Science and Energy programs that recognizes and differentiates the unique values and capabilities of each, and creates new opportunities through their complementarity to develop and transition energy technology solutions.

## Indian Energy Strategic Roadmap Goals

1

Promote Indian tribal energy development, efficiency, and use.

2

Reduce or stabilize energy costs.

3

Enhance and strengthen Indian tribal energy and economic infrastructure related to natural resource development and electrification.

4

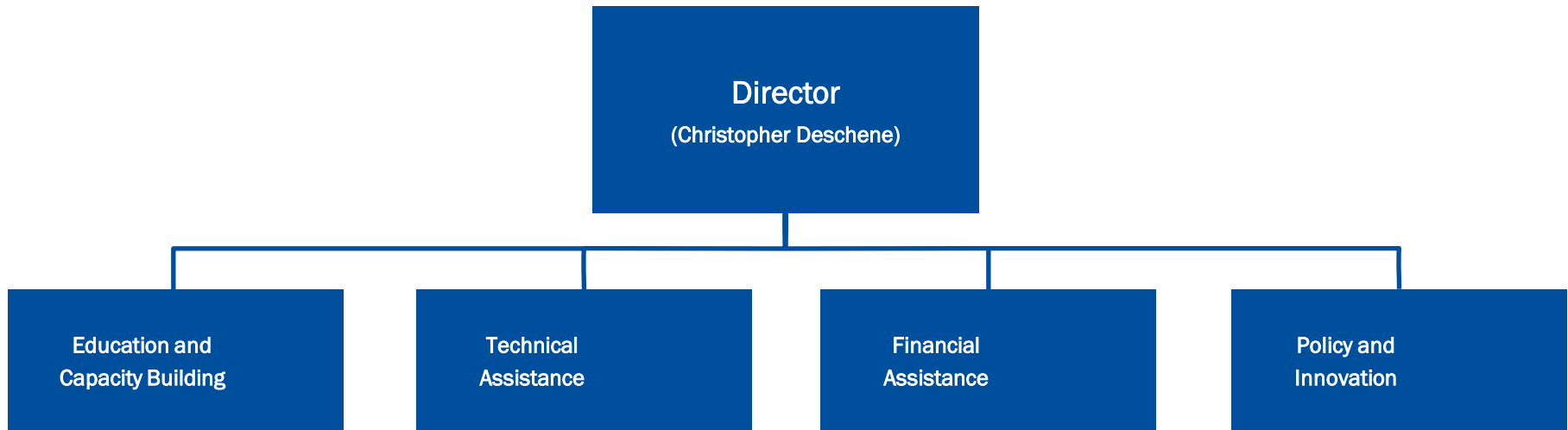
Bring electrical power and service to Indian land and the homes of tribal members.

5

Support and promote meaningful tribal participation in critical national and global tribal energy initiatives and crosscuts, including the water-energy nexus, grid modernization, and microgrids.



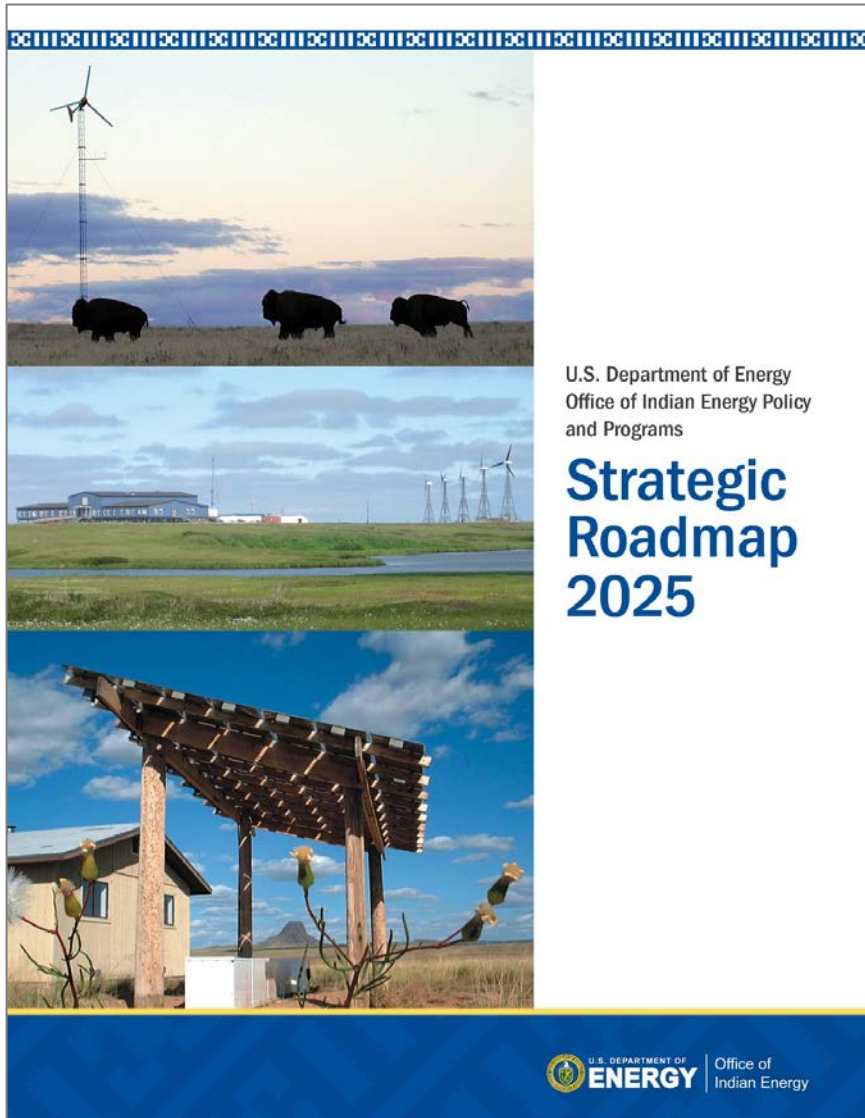
# Office of Indian Energy (IE)



## Highlights:

- Works with tribes, federal agencies, state governments, nongovernmental organizations, and the private sector to develop the energy solutions for the benefit of tribal communities.
- Provides education, technical and financial assistance, and policy support to tribal energy development and electricity infrastructure.

Assist tribes with energy development and electrification of Indian lands and homes



1

Promote Energy Development

2

Reduce or Stabilize Energy Costs

3

Enhance Energy and Economic Infrastructure

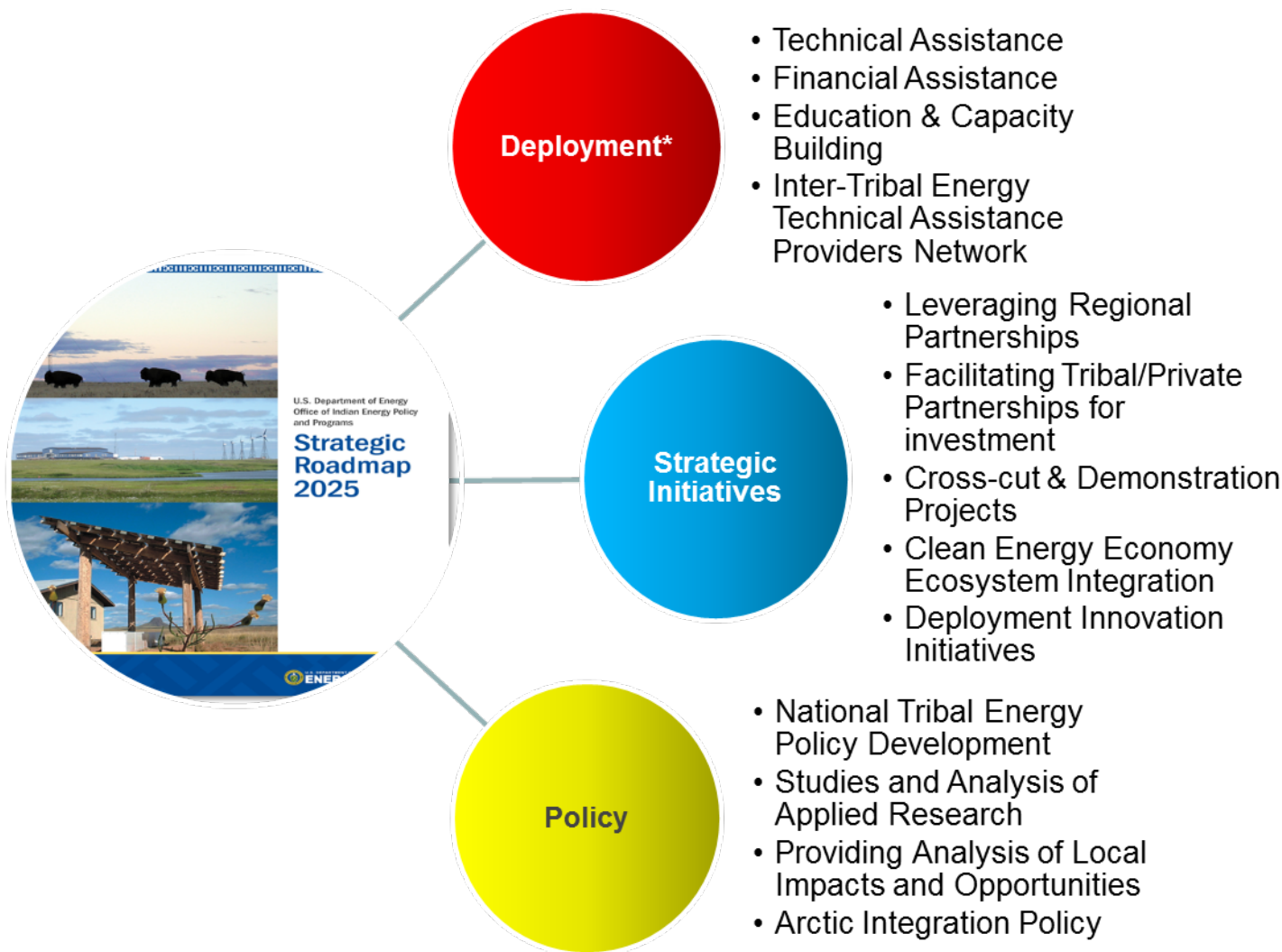
4

Foster Electrification

5

Support Energy Initiatives

# Big Ideas Supported by IE's Strategic Roadmap





# Organizational Accomplishments: 2015-2017



## Policy

- Developed Strategic Roadmap 2025.
- Established the Energy Subgroup Committee under the White House Council of Native American Affairs.
- Developed Indian Country Energy and Infrastructure Working Group's policy priorities for tribal energy development.

## Deployment

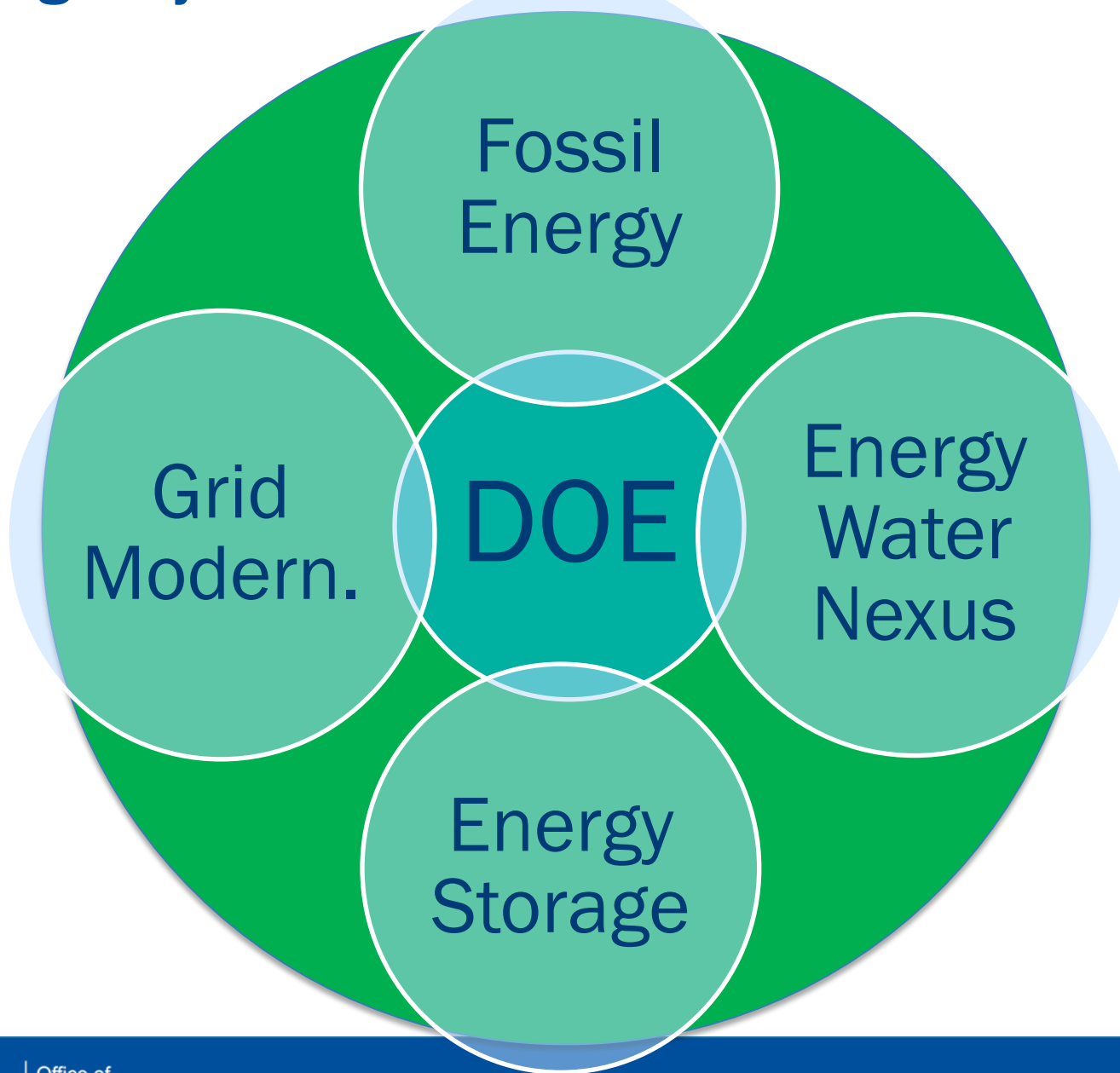
- Solicited and awarded four funding opportunities totaling \$20 million to approximately 40 recipients.
- Established Inter-Tribal Technical Assistance Providers Network
- Developed the Arctic Integration Plan.

## Strategic Initiatives

- Organized and executed the National Tribal Energy Summit 2015
- Established Memorandum of Understanding with the Department of the Interior to facilitate cross-agency collaboration
- Supported the White House Tribal Nations Conference
- Facilitated a national discussion on STEM & Workforce Dev.



# Intra-Agency Coordination and Crosscut Teams



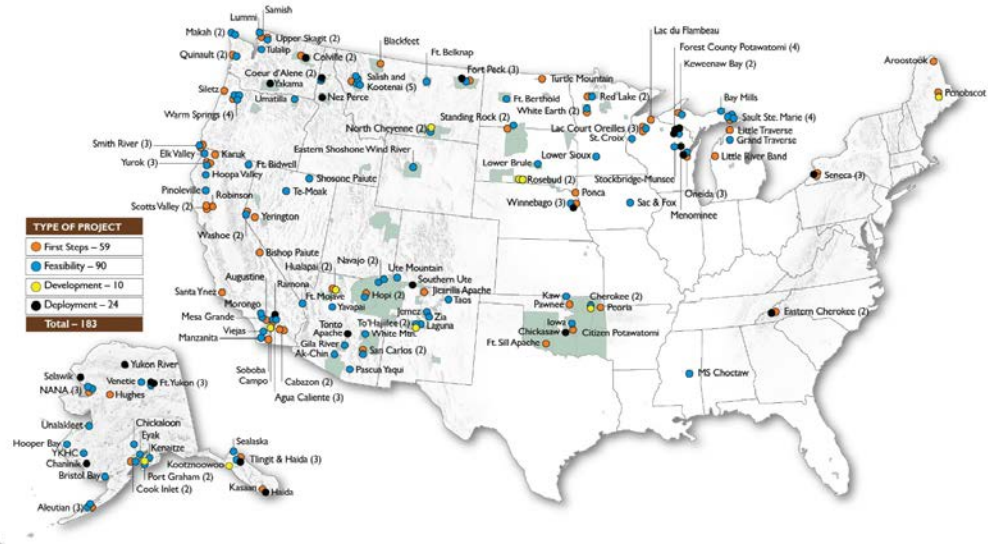
# Office of Indian Energy: FY 2017 Budget Request

Dollars in Thousands

	FY 2015 Enacted	FY 2015 Current	FY 2016 Enacted	FY 2017 Request	FY 2017 vs FY 2016
Office of Indian Energy Policy and Programs					
Program Direction	1,271	1,271	3,200	4,800	+1,600
Technical Assistance	3,739	3,739	2,900	6,000	+3,100
Tribal Energy Grant Program	10,990	10,990	9,900	12,130	+2,230
Total, Office of Indian Energy Policy and Programs	16,000	16,000	16,000	22,930	+6,930
Federal FTEs	7	7	9	15	+6

- Funds **Direct Technical Assistance (\$6 million)** to meet the demand that has doubled since 2013.
- Funds **Financial Assistance (\$12 million)** in the form of grants for deployment of innovative energy systems and technologies; the efficient delivery of technical assistance through the Intertribal Technical Assistance Networks; and DOE Grid Modernization and Energy-Water Nexus Crosscuts.
- Provides **6 more FTEs within Program Direction (\$4.8 million)** that are critical to carry out the programs, especially in the remote communities in Alaska and the Arctic.

# DOE's Investment in Tribal Energy Projects



DOE has invested **\$66.5 million** in **217** tribal clean energy projects valued at **more than \$126 million** (2002–2016). DOE's investments were leveraged by **\$59.7 million** in tribal cost-share. Tangible results of those shared investments include:

- Retrofitting **70 tribal buildings** saving tribes more than **10 million kilowatt-hours** of energy and **\$2.5 million** per year
- Completing energy audits on more than **250** tribal buildings
- Moving more than **580 MW** of potential new renewable energy generation into development
- Supporting tribes and Alaska Native villages in assessing the potential for more than **4 gigawatts** of new renewable energy generation
- Providing training to more than **170** tribal project participants

# 2016 Deployment Awards (\$7.7 million)

						
<b>Akwesasne Housing Authority</b>	<b>Alaska Native Tribal Health Consortium (ANTHC)</b>	<b>Alaska Village Electric Cooperative, Inc./Pitka's Point Native Corporation Renewable Energy Joint Venture</b>	<b>Bishop Paiute Tribe</b>	<b>Chippewa Cree Tribe</b>	<b>Hughes Village Council</b>	<b>Little Big Horn College</b>
Hogansburg, NY	Kotlik, Alakanuk, and Noorvik, AK	St. Mary's and Pitka's Point, AK	Bishop, CA	Box Elder, MT	Hughes, AK	Crow Agency, MT
Community-Scale AHA Go Solar Initiative	Vacuum Sanitation Energy Efficiency Retrofits Project	Pitka's Point/Saint Mary's Wind Energy Construction Project	Bishop Paiute Tribe Residential Solar Program-Phase II	Chippewa Cree Tribe Deployment of Clean Energy Solar PV Project	Sustainable Solar Energy for Hughes Village (Hudot'eeekkaakk'e Tribe)	Little Big Horn College Solar PV Array
DOE: \$1,000,000 Awardee: \$1,219,289 Total: \$2,219,289	DOE: \$462,373 Awardee: \$217,499 Total: \$679,872	DOE: \$799,001 Awardee: \$4,886,000 Total: \$5,665,001	DOE: \$341,635 Awardee: \$342,000 Total: \$683,635	DOE: \$63,435 Awardee: \$63,435 Total: \$126,871	DOE: \$623,900 Awardee: \$127,737 Total: \$751,637	DOE: \$160,090 Awardee: \$53,363 Total: \$213,453
						
<b>NANA Regional Corporation</b>	<b>Northern Pueblos Housing Authority</b>	<b>Rosebud Sioux Tribe</b>	<b>San Pasqual Band of Mission Indians</b>	<b>Soboba Band of Luiseno Indians</b>	<b>Sokaogon Chippewa Community</b>	<b>White Earth Reservation Tribal Council</b>
Kotzebue, AK	Santa Fe, NM	Ring Thunder Community, SD	Valley Center, CA	San Jacinto, CA	Crandon, WI	Ogema, MN
Community-Scale Solar Energy Deployment in the Northwest Arctic	Pueblo of Picuris Community Solar Array	Solar Energy Partnership Initiative	San Diego Tribal Energy Collaborative	Soboba Community Facility Solar Project (Phase II)	SCC Emission-Free and Treaty Resources Protection Clean Energy Initiative	White Earth Community Facilities Solar PV Project
DOE: \$1,000,000 Awardee: \$1,009,724 Total: \$2,009,724	DOE: \$1,000,000 Awardee: \$1,221,000 Total: \$2,221,000	DOE: \$132,219 Awardee: \$132,220 Total: \$264,439	DOE: \$500,000 Awardee: \$500,000 Total: \$1,000,000	DOE: \$500,000 Awardee: \$1,541,130 Total: \$2,041,130	DOE: \$1,000,000 Awardee: \$1,152,925 Total: \$2,152,925	DOE: \$149,018 Awardee: \$149,020 Total: \$298,038





# DOE Order 144.1: Department of Energy's American Indian Tribal Government Interactions and Policy

- Communicates Departmental, programmatic, and field responsibilities for interacting with American Indian Governments and transmit the DOE's American Indian & Alaska Native Tribal Government Policy, including its guiding principles, and transmits the Framework for Implementation of the Policy.

- <https://www.directives.doe.gov>



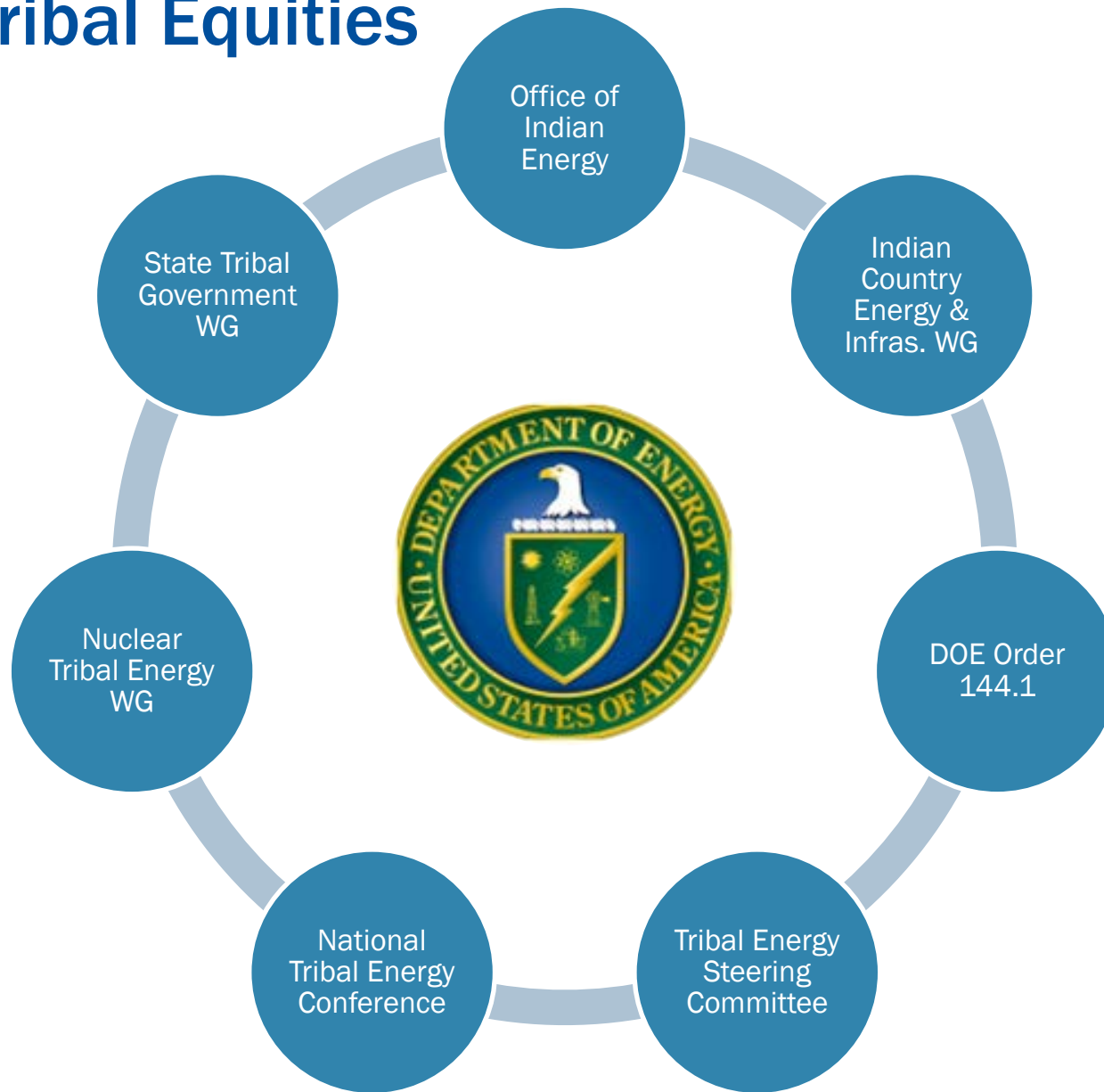
# DOE Order 144.1 – Policy Principles



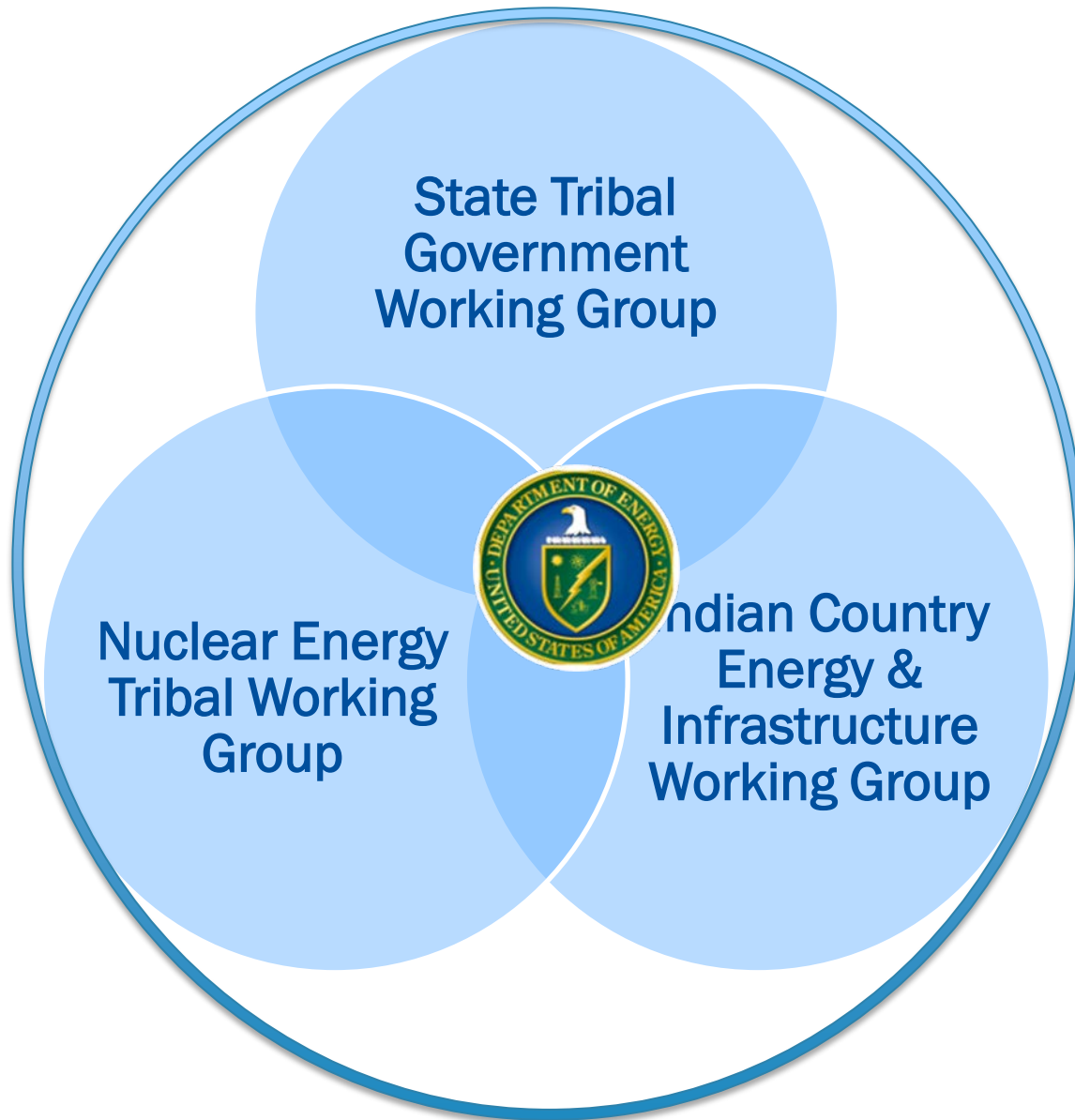
- 1 Recognizing the Federal Trust Responsibilities
- 2 Government to Government Relationship
- 3 Outreach Mechanisms, Consultation, and Tribal Integration
- 4 Cultural Resource Protection & Compliance
- 5 Coordinated Departments Efforts on Program Resources
- 6 Conduct Periodic Tribal Leader Summits
- 7 Working with Other Fed. & State Agencies on Related Matters



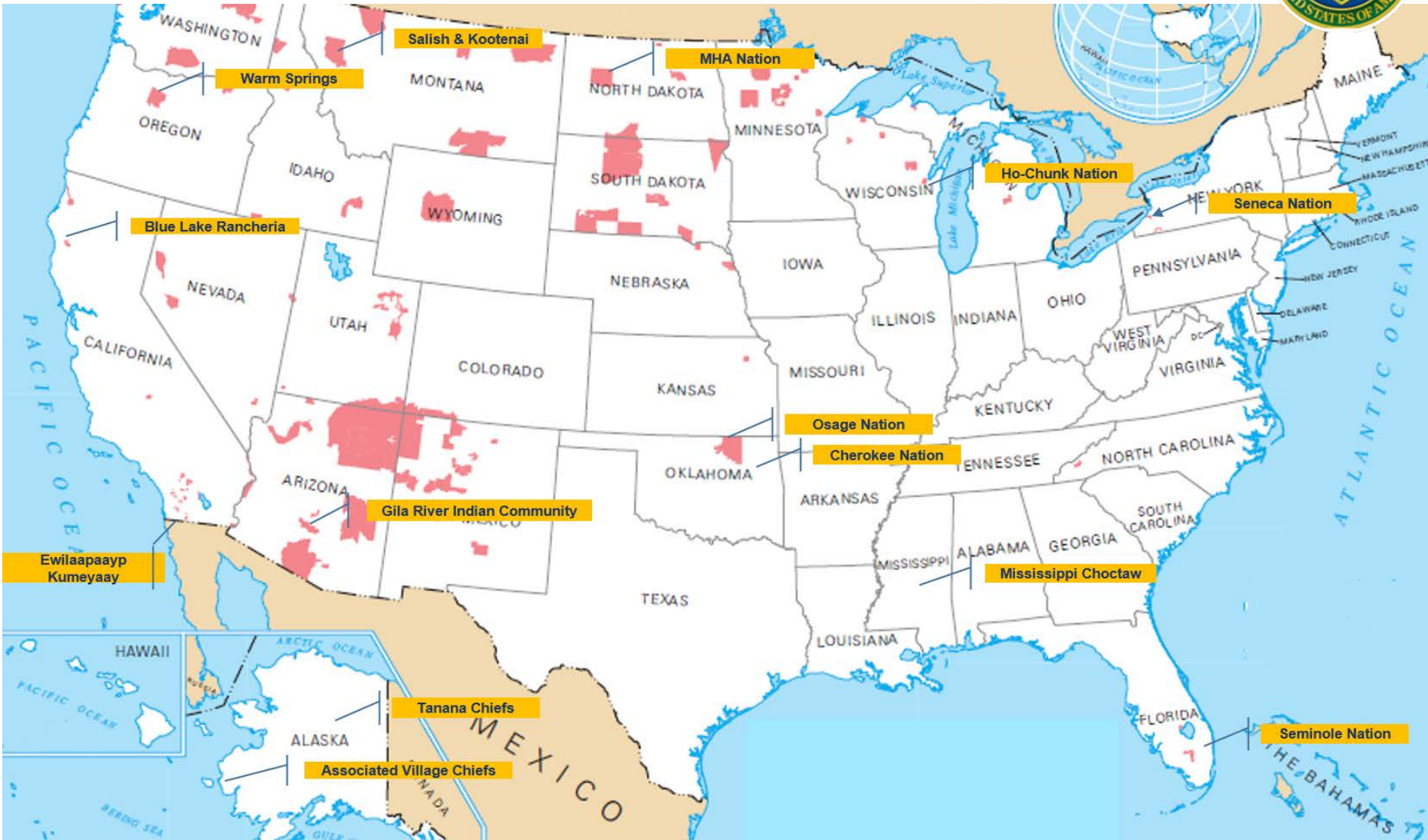
# DOE Tribal Equities



# DOE Tribal Working Groups



# Indian Country Energy and Infrastructure Working Group



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# Indian Country Energy and Infrastructure Working Group



## FY 2016 ICEIWG Priorities

1. Increase Access to Capital
2. Secure Energy Costs and Reliability
3. Improve and Modernize Regulatory System and Agency Nexus
4. Capacity Development

# National Tribal Energy Summit

- The bi-annual summit focuses on energy policy priorities important to American Indian tribes and brings together representatives from tribal and state governments, federal agencies, tribal corporations, private industry, utilities, and academia to explore energy development and security issues identified by tribes and the U.S. Department of Energy's (DOE's) Indian Country Energy and Infrastructure Working Group.



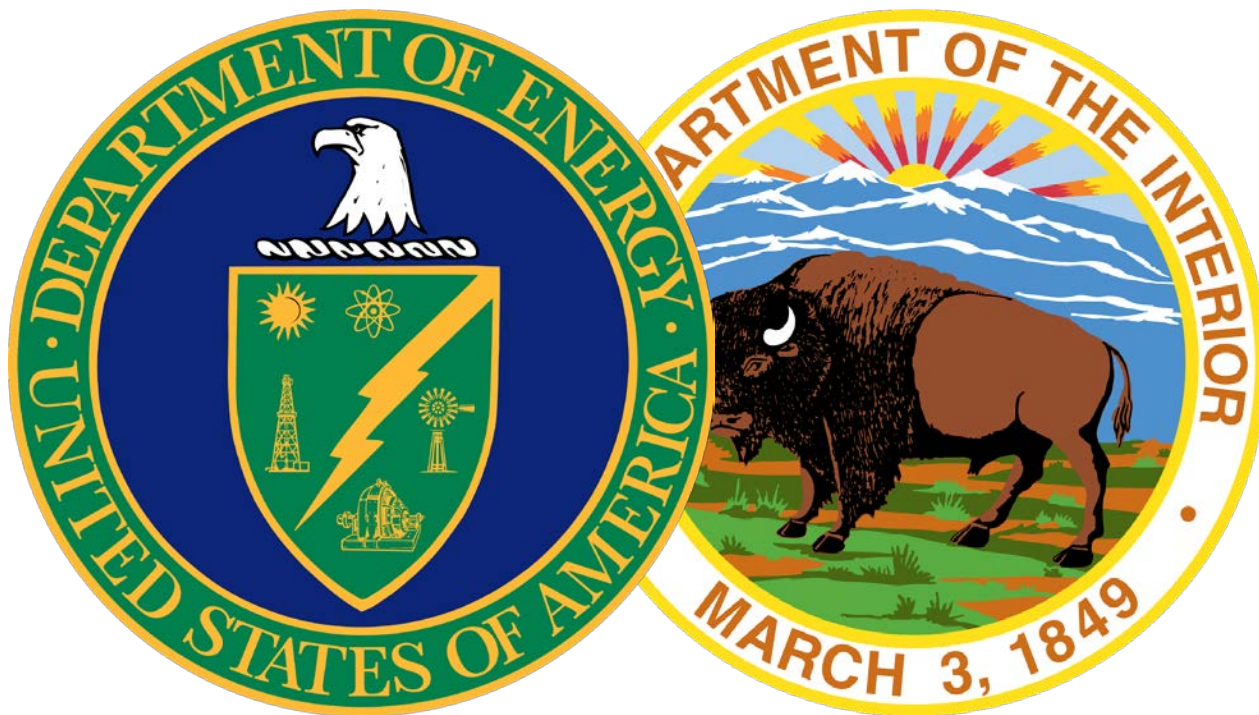
The next Summit is scheduled for May 1-3 2017, Washington, D.C.



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# Joint Memorandum of Understanding

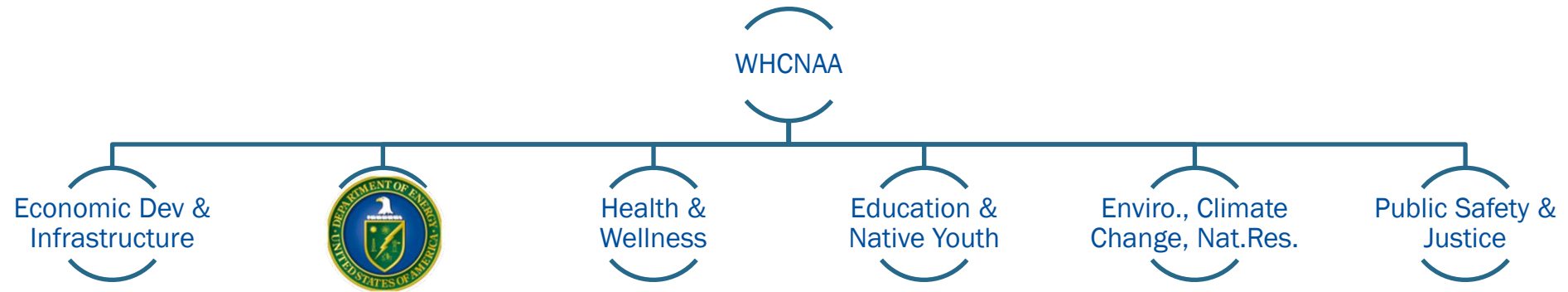


Signed June 21, 2016 to create a framework for cooperation on Indian Energy issues between the U.S. Department of Energy and U.S. Department of the Interior.





# White House Council on Native American Affairs



Chaired by the Secretary of the Interior, WHCNAA membership consists of heads of federal Departments, Agencies, and Offices, with an Executive Director and inter-agency staff carrying forward WHCNAA priorities. The priorities revolve, generally, around promoting tribal self-determination and tribal self-governance. Additionally, six WHCNAA subgroups have been created to coordinate inter-agency issues.

# Thank You!

Christopher Clark Deschene  
Director

Office of Indian Energy Policy & Programs  
Department of Energy  
(202) 586-1272

Website: [www.energy.gov/indianenergy](http://www.energy.gov/indianenergy)  
Email: [IndianEnergy@hq.doe.gov](mailto:IndianEnergy@hq.doe.gov)