

Tribal Energy and Federal Engagement

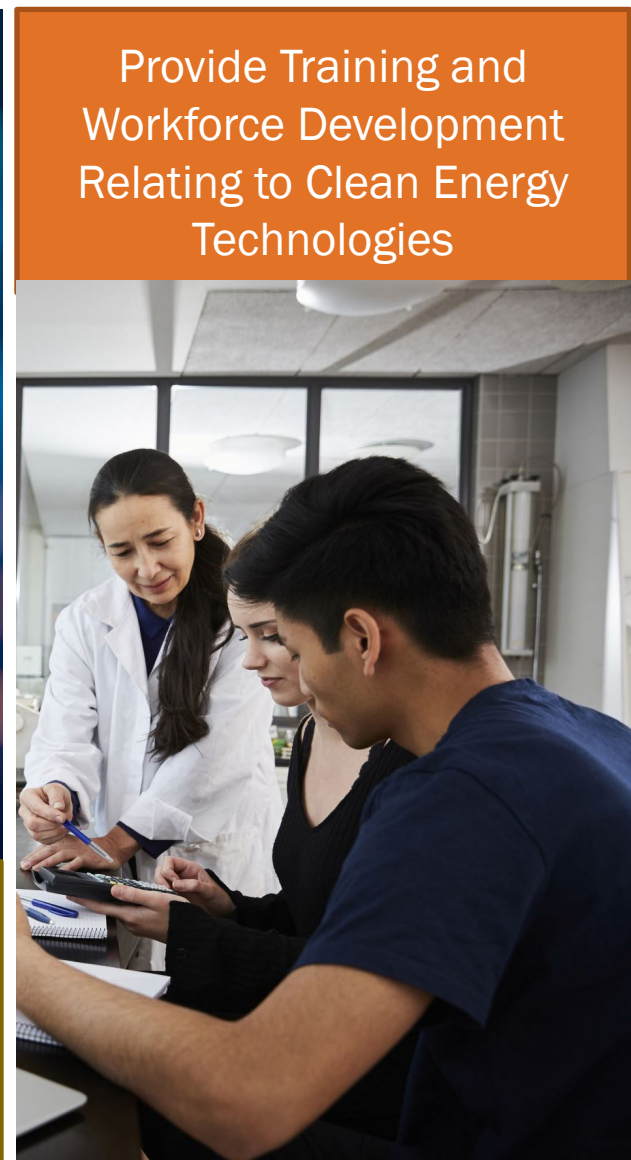
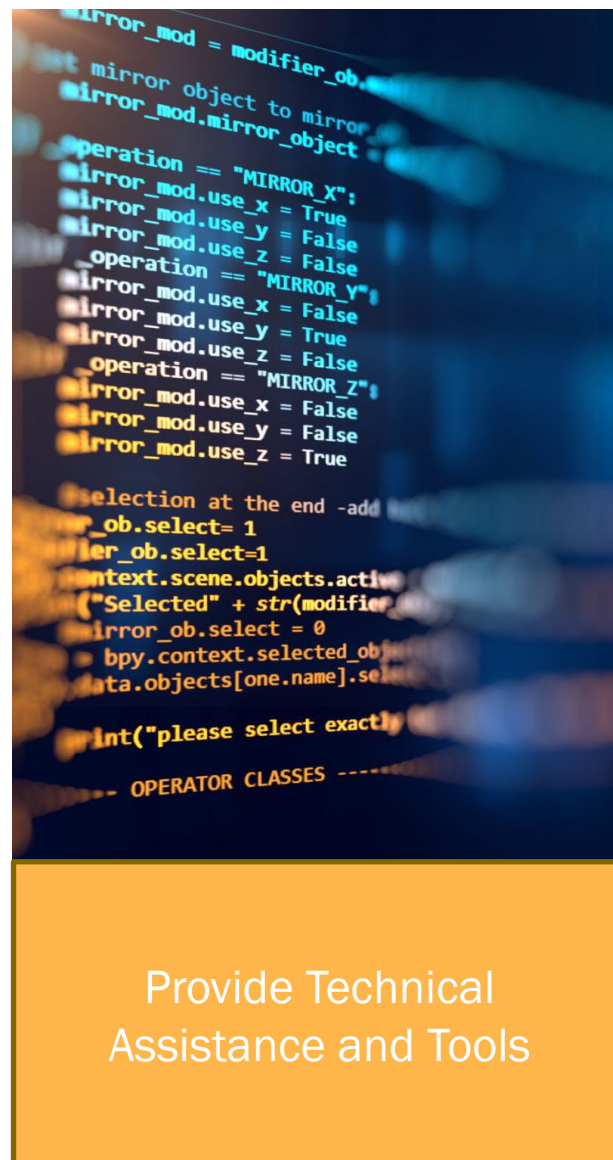
10/5/2022



Overview



Federal Energy Management Program Mission Highlights



FEMP's Healthy Buildings Program

Objective: Use the FEMP [Healthy Buildings Toolkit](#) as the basis for conducting pilot studies for facilities other than office buildings. This includes schools with the Bureau of Indian Education (BIE) and hospitals with Indian Health Services (IHS) and the Department of Veterans Affairs (VA).

Indoor environmental quality (IEQ) includes Indoor Air Quality (IAQ), thermal comfort, noise, and lighting quality.

Main Metrics Included in Research:

- Total volatile organic compounds, particulate matter, carbon dioxide, temperature, and humidity
1. Identify IEQ issues and provide recommended solutions that can improve human outcomes.
 2. Integrate IEQ improvement opportunities with energy efficiency measures.

Healthy Buildings Pilot Studies

Conduct Remote Indoor Environmental Quality (IEQ) Assessments

- Train facility staff on how to launch FEMP provided data loggers
- Analyze data throughout the observation period
- Provide meaningful recommendations to improve IEQ and energy efficiency at the facility

FY22 Assessments

- Indian Health Services (Health and Human Services)
 - Fort Yates Hospital, North Dakota
- Bureau of Indian Education (Department of the Interior)
 - Jemez Day School, New Mexico
 - San Simon, Arizona
 - Taos Day School, New Mexico



Distributed Energy: REopt Web Interface

- Free, publicly available, user-friendly web tool
 - reopt.nrel.gov/tool
- Resilience mode optimizes to sustain critical load during grid outages
- Clean energy goals allows users to optimize results while considering:
 - Renewable energy goals
 - Emissions reduction targets
 - Emissions costs (cost of carbon)

Step 1: Choose Your Energy Goals

☒ Cost Savings \$

☐ Resilience 🛡️

☐ Clean Energy 🌱

Step 2: Select Your Technologies

☒ PV ☀️

☒ Battery 🔋

☒ Grid ⚡

☐ Wind 🌪️

☐ CHP 🏭

☐ Chilled Water Storage ❄️

☐ Geothermal Heat Pump 🌍

Step 3: Enter Your Site Data

📍 Site and Utility (required)

* Site location ?

Enter a location

* Required field

[Use sample site](#)

* Electricity rate ?

▼

☐ Use custom electricity rate ?

[Optional inputs](#)

[Reset to default values](#)

📊 Load Profiles (required)

\$ Financial

🔥 Renewable Energy & Emissions

⚙️ PV

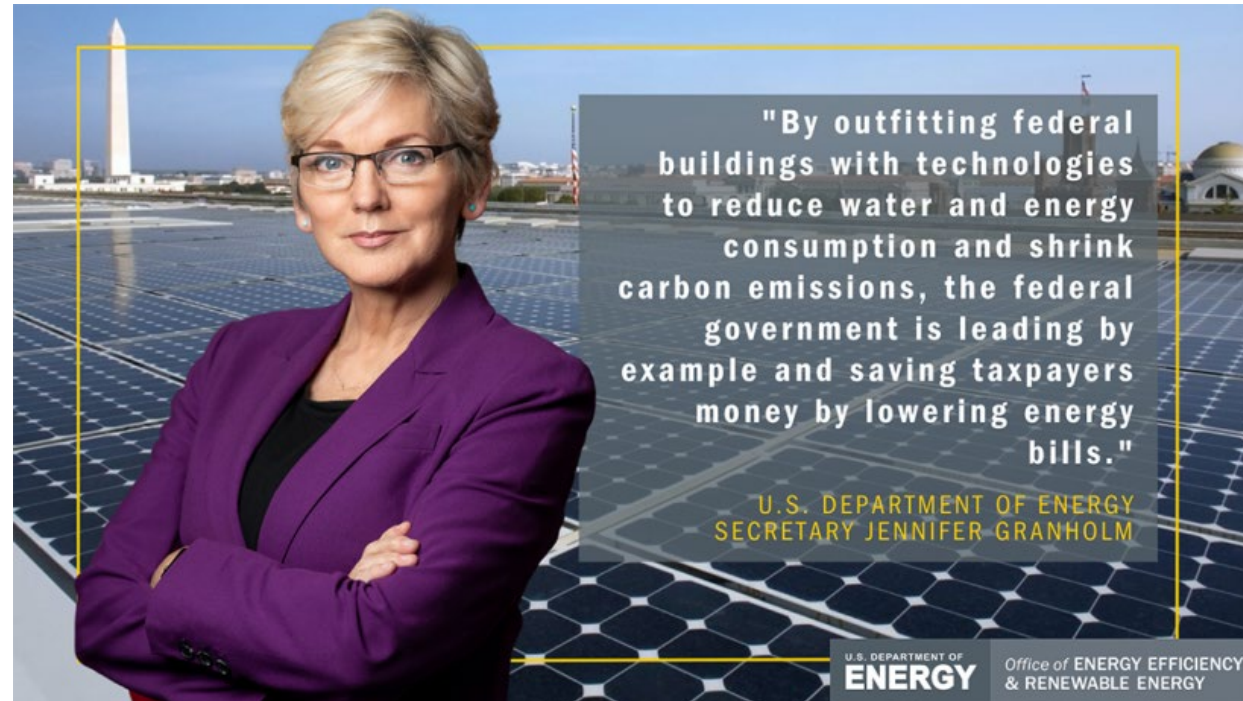
🔋 Battery

[Reset to default values](#)

[Get Results](#)

AFFECT Grants

- FEMP provides direct funding to federal agencies through the **Assisting Federal Facilities with Energy Conservation Technologies** (AFFECT) federal agency call
- AFFECT provides grants for the development of energy and water efficiency projects and processes at U.S. federal government-owned facilities. Examples of past AFFECT grants can be found [here](#)
- **Federal facilities serving Tribal Nations are encouraged to apply to AFFECT**



Establishment of the Tribal Preference

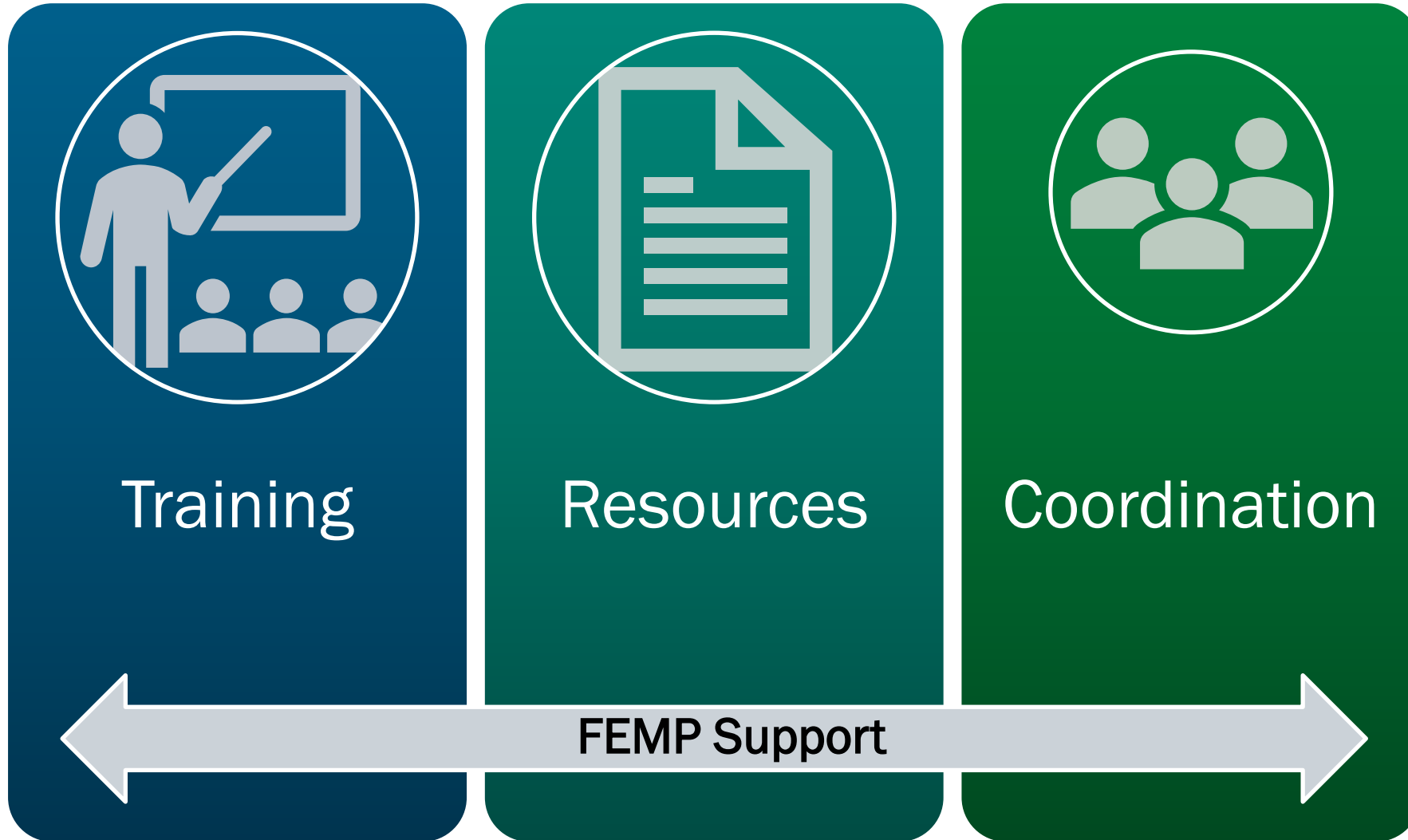
25 U.S.C. § 3502(d)
(Sec. 503 of the Energy Policy Act of 2005)

“(1) In purchasing electricity or any other energy product or byproduct, a Federal agency or department may give preference to an energy and resource production enterprise, partnership, consortium, corporation, or other type of business organization the majority of the interest in which is owned and controlled by 1 or more Indian tribes.

(2) In carrying out this subsection, a Federal agency or department shall not—
(A) pay more than the prevailing market price for an energy product or byproduct; or
(B) obtain less than prevailing market terms and conditions.”

Note: The preference is not limited to Tribal lands – projects can be located anywhere.

FEMP Offerings



On-Demand FEMP Webinars

- **Clean Energy Development**
 - [Decarbonization Considerations: Onsite Distributed Energy Projects and Offsite Purchases](#)
- **Solar PV**
 - *Planning, Procuring & Managing PV Systems for Long-Term Performance series*
 - [Acquisition](#)
 - [Operations & Maintenance](#)
 - [Preventing & Recovering from Damage](#)
 - [End of Performance Period](#)
- **Wind**
 - [Selecting, Implementing, and Funding Distributed Wind Systems in Federal Facilities](#)
 - [Distributed Wind for Federal Agencies](#)
- **Battery Storage**
 - [Introduction to Battery Energy Storage](#)
- **Electric Vehicles**
 - [Financial considerations, power and installment requirements, and EV site assessments and operations](#)

FEMP Resources



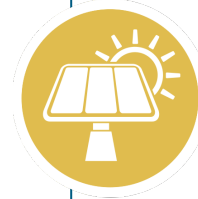
Facilities and Fleet



Energy and Water
Resilience and
Security



Energy and Project
Procurement
Development Services



Distributed Energy
Resources



Carbon Pollution-Free
Electricity Landing
Page



FEMP Assistance
Request Portal

FEMP Partnerships

BIE, BIA,
HHS

Private
sector
groups

Other
federal
agencies

EERE Tribal
Liaison:
Aggie Wein

And more!

Thank you!

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