



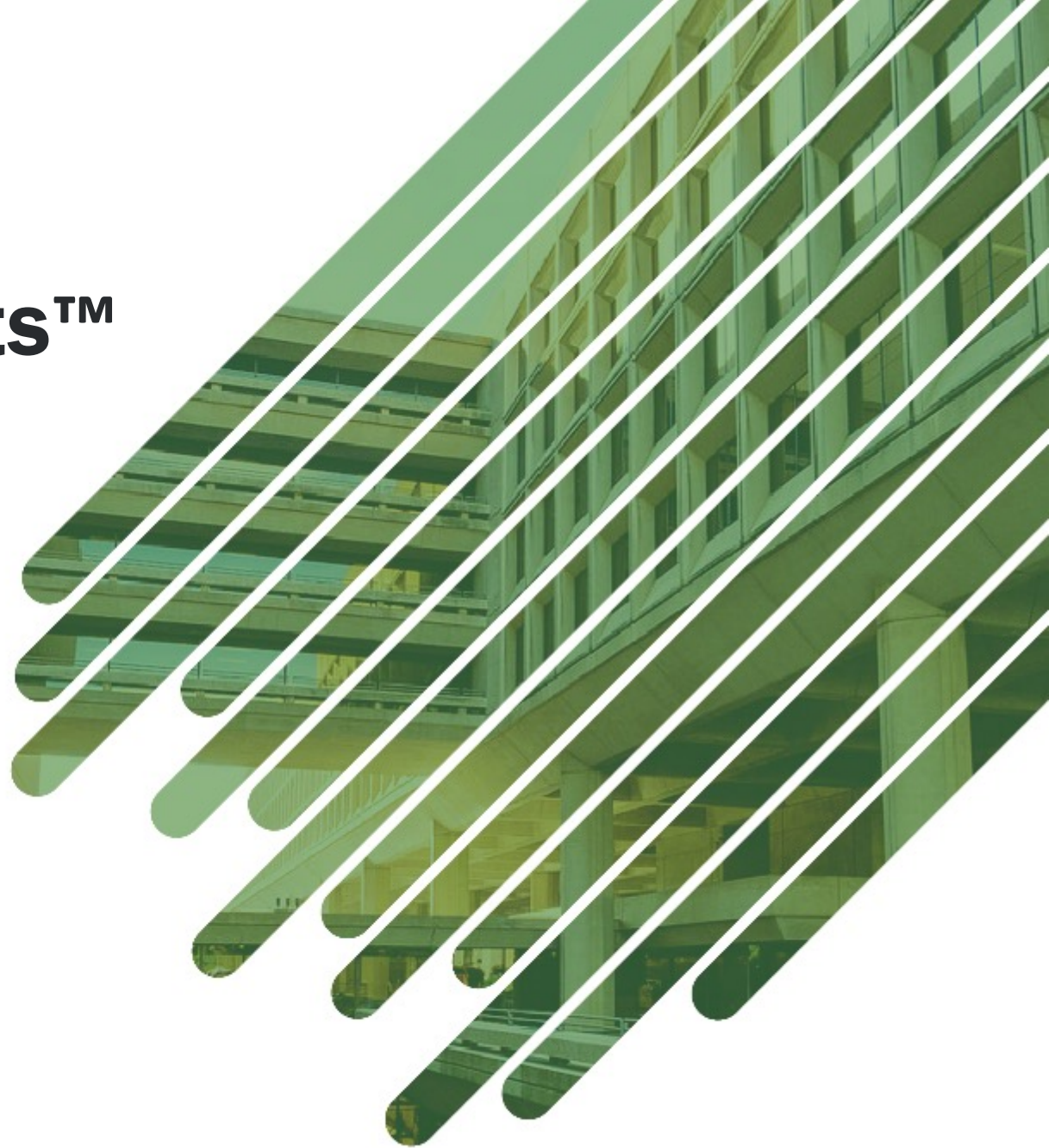
U.S. DEPARTMENT OF
ENERGY

Renewable Energy Markets™

Mary Sotos

Director, Federal Energy
Management Program (FEMP)

September 19, 2023

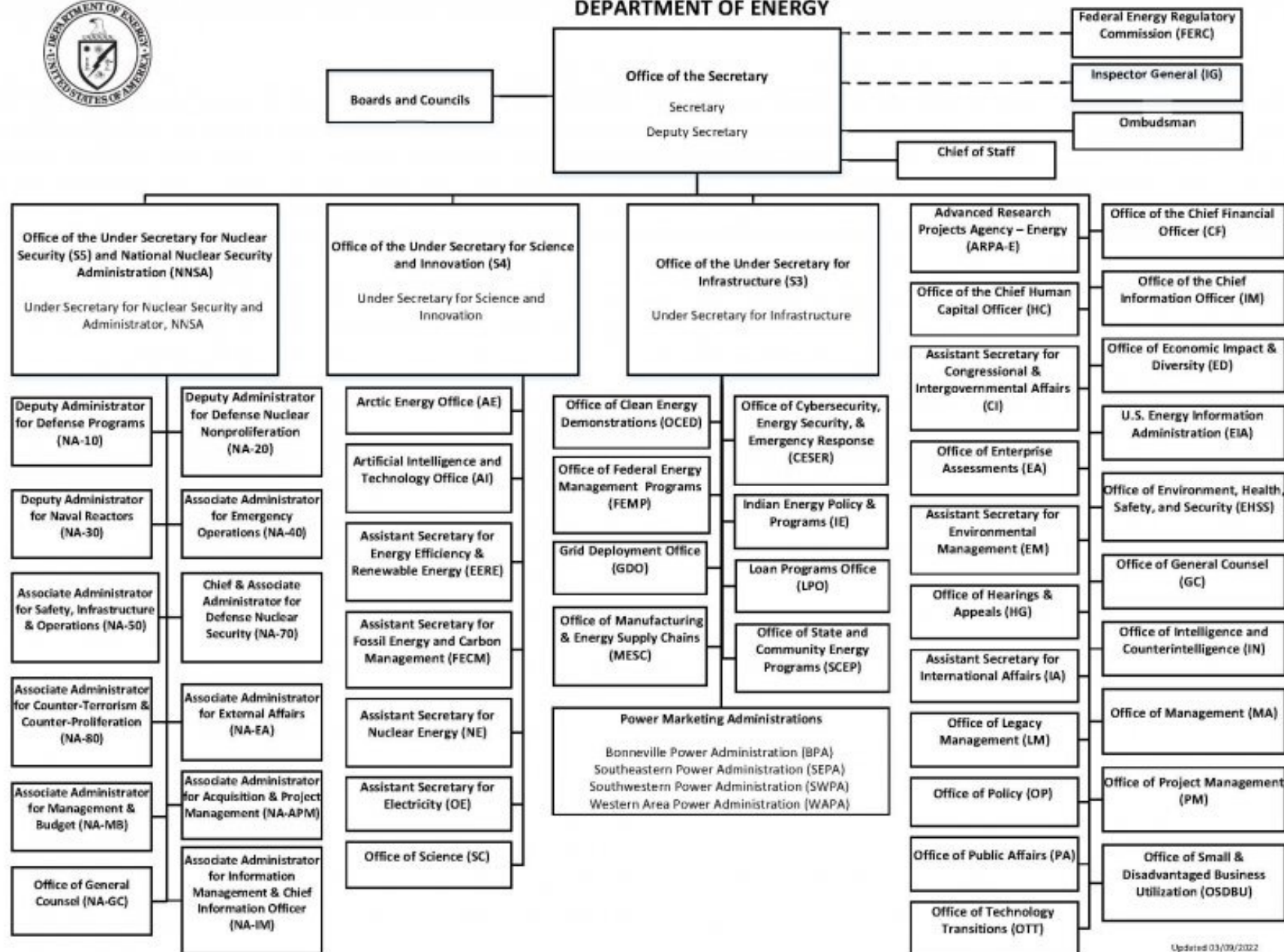


Key themes

- 1. Lasting change requires policy, funding and people – but we need to focus on the people.**
- 2. Leading By Example should mean that there are multiple examples that can be followed and scaled.**
- 3. We have a powerful story to tell and our success depends on us telling it.**



DEPARTMENT OF ENERGY



Updated 03/09/2022

FEMP helps agencies lead by example

FEMP works with **key stakeholders** to support **all stages of energy management** in federal agencies' **critical areas**.

Key Stakeholders

-  White House
-  Industry
-  Agencies
-  National Labs
-  Congress
-  MUSH Markets

Technical Areas

- Facilities 
- Fleets 
- Grid 

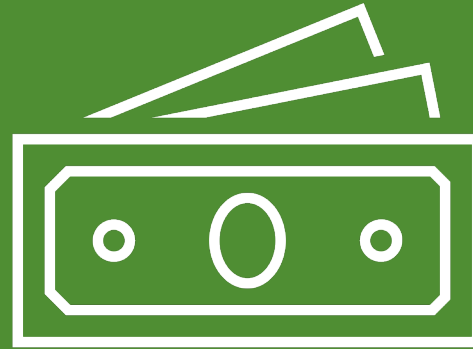


E.O. 14057, Catalyzing America's Clean Energy Industries and Jobs through Federal Sustainability

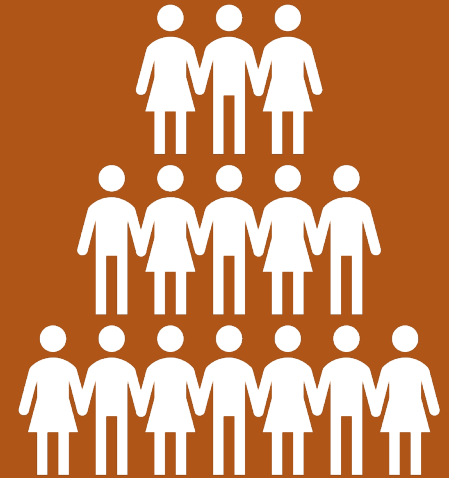




Policy



Money



People

FEMP Carbon Pollution-Free Electricity Support and Resources

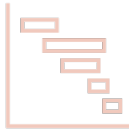


Help facilities understand their regulatory environment, grid mix, and balancing authority

Enable agencies to prioritize engagement with highest-impact utilities



Provide agencies with data necessary for completing CFE Strategic Plans



Technical Assistance

| State | Utility | Program Name | Program | Green Pricing | Green Tariff | Other | Status | service after 01/01/2025 | delivery in 2025 |
|----------------|--|---|---------------|---------------|--------------|-------------------|-----------|--------------------------|------------------|
| Alabama | AEP (Public Service Co of Oklahoma) | Wind Choice (Green Energy Choice Tariff) | Green Pricing | Yes | No | Available | Available | Y | Y |
| Alabama | Alabama Power Co | Greener State | Green Pricing | Yes | No | Available | Available | Y | N |
| Alabama | Alabama Power Co | Renewable Solutions | Green Pricing | No | No | Not yet available | Y | Y | Y |
| Arizona | American Corporation, formerly Union Electric Co - (BNE) | Green Power Partners Option A | Green Tariff | Yes | No | Available | Y | Y | Y |
| Arizona | Arizona Public Service Co | Green Power Partners Option B | Green Tariff | Yes | No | Available | Y | Y | Y |
| Arizona | Arizona Public Service Co | Green Power Partners Option C | Green Tariff | Yes | No | Available | Y | Y | Y |
| Arizona | Arizona Public Service Co | Green Power Choice | Green Pricing | No | No | Fully Subscribed | N | Y | Y |
| Colorado | City of Colorado Springs - (CCS) | Green Power Service | Green Tariff | No | No | Fully Subscribed | N | Y | Y |
| Colorado | Cisco Power LLC | None | None | No | No | None | Y | Y | Y |
| Colorado | Dominion Energy South Carolina, Inc | None | None | No | No | None | Y | Y | Y |
| Colorado | Duke Energy Carolinas, LLC | Green Source Advantage | Green Tariff | Yes | No | Fully Subscribed | N | Y | Y |
| Colorado | Duke Energy Carolinas, LLC | Green Source Advantage | Green Tariff | Yes | No | Available | Y | Y | Y |
| Colorado | Duke Energy Florida, LLC | Clean Energy Connection | Green Pricing | No | No | Fully Subscribed | Y | Y | Y |
| Colorado | Duke Energy Progress - (NCC) | Green Source Advantage | Green Tariff | Yes | No | Fully Subscribed | N | Y | Y |
| Colorado | Energy Arkansas LLC | None | None | No | No | None | Y | Y | Y |
| Mississippi | Energy Mississippi LLC | None | None | No | No | None | Y | Y | Y |
| Mississippi | Energy New Orleans, LLC | Green Select | Green Pricing | No | No | Available | Unknown | Y | Y |
| Mississippi | Florida Power & Light Co | Solar Vantage | Green Tariff | Yes | No | Available | Y | Y | Y |
| Mississippi | Florida Power & Light Co | Solar Together | Green Pricing | No | No | Fully Subscribed | Unknown | Y | Y |
| Mississippi | FPL (Northwest Gulf Power) | Solar Vantage | Green Tariff | Yes | No | Available | Y | Y | Y |
| North Carolina | Georgia Power Co | Simple Solar | Green Pricing | No | No | Available | Unknown | Y | Y |
| North Carolina | Georgia Power Co | Commercial & Industrial RECI | Green Pricing | No | No | Fully Subscribed | N | Y | Y |
| North Carolina | Golden Valley Elec Assn Inc | None | None | No | No | None | Y | Y | Y |
| North Carolina | Hawaiian Electric Co Inc | None | None | No | No | None | Y | Y | Y |
| North Carolina | Kentucky Utilities Co | Green Tariff Option 1 - RECI | Green Pricing | No | No | Unknown | Unknown | Y | Y |
| North Carolina | Kentucky Utilities Co | Green Tariff Option 2 - Business Solar | Green Tariff | Yes | No | Available | Y | Y | Y |
| North Carolina | Kentucky Utilities Co | Green Tariff Option 3 - Renewable Power Agreement | Green Tariff | No | No | Available | Y | Y | Y |
| North Carolina | Mississippi Power Co | None | None | No | No | None | Y | Y | Y |
| North Carolina | Monongahela Power Co | Voluntary Renewable Electricity Rider | Green Pricing | Yes | No | Available | Y | Y | Y |
| North Carolina | Northern States Power Co - Minnesota (Dcell) | Renewable Connect | Green Tariff | No | No | Not yet available | Y | Y | Y |
| North Carolina | Public Service Co of Colorado (Dcell) | Renewable Connect | Green Tariff | No | No | Fully Subscribed | N | Y | Y |
| North Carolina | Public Service Co of NM | Green Energy Rider | Green Tariff | No | No | Available | Y | Y | Y |

Tools

Section 3: USG Electricity Contract Inventory in Vertically Integrated Markets
B. Vertically Integrated Markets Electricity Contract Inventory

Background: In vertically integrated electricity markets, consistent with the Federal Acquisition Regulations (41 CFR 101-11.6), agencies must procure electricity from their serving utility separate contracts (subject to agency contracting authority), or interagency agreements. In these markets, each serving utility has an assigned agency that serves as the utility lead which may include CFE options that can meet the aggregated federal loads of sites within the service territory. In developing plans for CFE purchases in these regions, agencies should consult with their assigned agency to understand the available options and procure through task orders issued under GSA awarded contracts (e.g., separate contracts subject to agency contracting authority). For any electricity in Vertically Integrated Markets not procured through task orders issued under GSA awarded contracts (e.g., separate contracts subject to agency contracting authority), agencies should enter the required information into this worksheet (yellow cells). Once completed, please share this information with GSA, DC.

Required Information to Complete Worksheet (YELLOW CELLS require your response)

- Which authorized agency - GSA, DLA Energy, or both - would you prefer procure?
 - Preferred agency:
 - Alternate:
- For vertically integrated markets (VIM), does your agency procure any electricity options, no further information required. Please regard questions 3 - 5. If yes, please complete questions 3 - 5.
- Who is the appropriate point of contact from your agency to discuss these contracts?
 - Name:
 - Contact info:
- Does your agency have any mission-related requirements that you believe would impact the procurement of electricity? If yes, please describe here:
- Please provide details on electricity that your agency has procured on its own (if applicable):

| Location (zip code or balancing authority of delivered electricity) | Electricity supplier (utility or supplier name) | Contract electricity load (MW, MWh) | Contract end date |
|---|---|-------------------------------------|-------------------|
| Contract 1 | | | |
| Contract 2 | | | |

Color-code based on options:

- Green: eligible & available to enroll
- Blue: eligible & coming soon
- Yellow: option does not meet eligibility requirements
- Red: no options identified

Partnerships with CEQ and Utilities

Resources

Training

Mon Power Solar Program: Phase I

- 2024 Ft. Martin Site (19MW)
 - Adjacent to ash disposal site
- 2025 Marlowe Site (6MW)
 - Reclaimed ash disposal site
- 2025 Wylie Ridge Site (8MW)
 - Adjacent to a Mon Power substation
- 2025 Rivesville Site (5MW)
 - Retired ash sites
- 2026 Davis Site (12MW)
 - Reclaimed strip mine

Environmental FirstEnergy

Carbon Pollution-Free Electricity Resources for Federal Agencies

Federal Energy Management Program

This page provides federal agencies with Federal Energy Management Program (FEMP) carbon pollution-free electricity (CFE) resources and provides information on how to increase federal agency understanding of an on-site and off-site CFE options. Additionally, the steps outlined below represent a comprehensive approach to CFE planning and procurement.

Assess: Understand site energy needs and CFE usage

Strategize: Identify feasible, impactful pathways to increased CFE

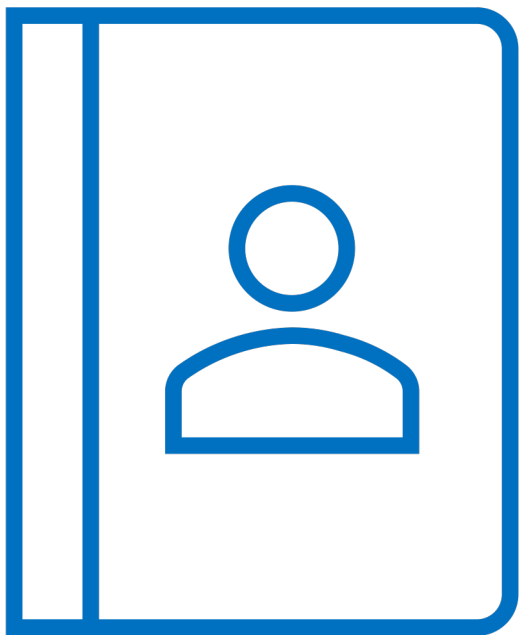
Implement: Develop procurement strategies for CFE

Webinar Overview

| Agenda | | Learning Objectives |
|--------|-------------------------------------|---|
| I. | Relevant Federal Policies | |
| II. | Approach to Increasing CFE | <ul style="list-style-type: none"> Recognize the differences between vertically integrated and retail electric choice utility markets; |
| III. | Electric Industry Overview | <ul style="list-style-type: none"> Recognize the impact of market structure on available CFE options |
| IV. | On-site Procurement | <ul style="list-style-type: none"> Identify feasible, impactful pathways to increased CFE |
| V. | Off-site Procurement | <ul style="list-style-type: none"> Leverage available FEMP and other resources to help agencies meet CFE goals |
| VI. | Utility Service-Related Authorities | |
| VII. | FEMP Resources and Q&A | |

Remember-You will need to integrate any specific federal requirements into your strategies.

U.S. DEPARTMENT OF ENERGY OFFICE OF ENERGY EFFICIENCY & RENEWABLE ENERGY



**Who is our
customer and
target audience?**



Leading By Example(s)

Over the last two decades, FEMP has:

- ✓ Issued over **400 awards** to individuals and organizations who made significant contributions to energy and water efficiency within the federal government



2022 Career Exceptional Service Award: Antonio Piluso, U.S. Navy
Pictured with DOE and Navy Senior Leaders



**What is the story of the
voluntary market?**



What is the story of the voluntary market?

- *Leadership*
- *Shared vision*
- *Technical depth and innovation*
- *Common, credible, compatible infrastructure*
- *Supporting programs*
- *Shaping policy*
- *Collaboration across sectors*
- *Open up new market opportunities*
- *Shape norms*

Thank you!