

#### **Federal On-Site Carbon Pollution-Free Electricity Purchase Contracts**

Nichole Liebov (FEMP), Douglas Gagne (NREL), Chandra Shah (NREL), John Myhre (NREL) July 11, 2022





#### **Webinar Logistics**

- Call in for the best audio connection!
- Please ensure your phone/computer is muted throughout the webinar
- Logistical issues: <u>wbdg@nibs.org</u>
- Don't hesitate to ask questions!
  - Send questions to all panelists in the Q&A window
  - Feel free to contact us through the <u>FEMP</u>
     <u>Assistance Request Portal</u>
     (https://www7.eere.energy.gov/femp/assistanc
     <u>e/node/add/application-combined</u>)



## **Training Overview**

#### Agenda **On-Site CFE Purchasing Options Overview** Authorities and Contract Term Limitations Strategies for Successful **Procurements** Case Study, Resources and Q&A IV.

#### **Learning Objectives**

- Identify federal procurement authorities available for on-site CFE purchases (DoD and civilian)
- Understand limitations associated with onsite CFE purchase contracts
- Execute strategies for successful procurements
- Leverage available FEMP and other resources to help agencies meet CFE goals

Disclaimer: We recommend that agencies perform due diligence to ensure that their purchases will count toward the goals they are seeking to meet and refer to the EO 14057 Implementing Instructions once they have been issued.

#### **FEMP's Distributed Energy Program Training Team**



Doug Gagne NREL, Energy Project Analyst <u>douglas.gagne@nrel.gov</u> 303-275-4351



Chandra Shah NREL, Senior Project Leader <u>chandra.shah@nrel.gov</u> 303-384-7557



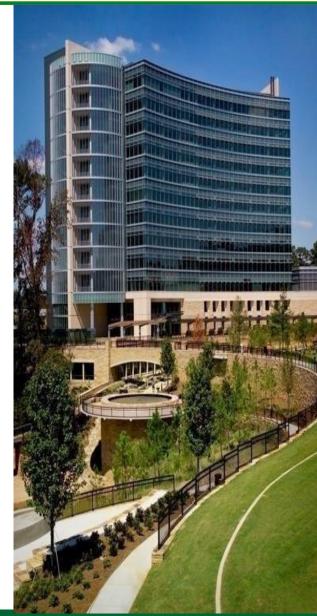
John Myhre NREL, Senior Project Manager john.myhre@nrel.gov 303-275-3087

# **DOE Federal Energy Management Program**

#### **Mission**

The Federal Energy Management Program (FEMP) works with its stakeholders to:

- Enable federal agencies to meet
   energy-related goals
- Identify affordable solutions
- Facilitate public-private partnerships
- Provide energy leadership to the country by identifying and leveraging government best practices



#### **FEMP's Distributed Energy Program**

FEMP's Distributed Energy (DE) Program facilitates the implementation of cost-effective on-site renewable energy, energy storage, and combined heat and power technologies for federal agencies.

and the second second	Procui	rement	
	in the second		
1			-
Home + Energy & Project Procurer	nert Development Seniros + Fede	ral Distributed theog and theog Procu	want
The Federal Energy Mana	gement Program's (FEMP	) Distributed Energy	
and Energy Procurement			Ready to
their missions through in		reliable energy-	Implement a
generation projects and			Distributed
For more than 30 years, F			Energy Proje
renewable energy project with identifying and imp			FEMP's implemental process guides the v
including on-site renewa			from start to finish.
and power technologies			
FEMP also supports fede	ral strancias with energy	orocuramani	
specifically off-site renew			
FEMP provides resources	and assistance to feder	al agencies based on current	federal laws and
	eds and missions, and g	al agencies based on current overnment best practices.	federal laws and
requirements, agency ne Get Started Distributed Energy Implementation Process Explore FMMTs scephase process for implementing	eds and missions, and g	Distributed Energy Procurement Options Loarn about fedoral government procurement options for distributed	ledenal laws and
requirements, agency ne Get Started Distributed Energy Implementation Process Explore FEMPE a sizephase	eds and missions, and g	Distributed Energy Procurement Options Learn about federal government procurement	federal laws and
requirements, agency ne Get Started Distributed Energy Implementation Process Explore FMMTs scephase process for implementing	eds and missions, and g	Distributed Energy Procurement Options Loarn about fedoral government procurement options for distributed	
requirements, agency ne Get Started Distributed Energy Implementation Process Explore FMMTs scephase process for implementing	eds and missions, and g	Distributed Energy Procurement Options Loarn about fedoral government procurement options for distributed	
requirements, agency ne <b>Get Started</b> Distributed Energy implementation <b>Project Assistance</b> Aregorit extremal Project Assistance Aregorit extremal Areas and a set of the set of the set of the set Areas and a set of the se	eds and missions, and g	Distributed Energy Presentent Options generational products generational products energy requests Agency Resemble Executions for administration Find and the formation Find and the formation agences an agences an	
requirements, spency real <b>Cast Started</b> <b>Distributed Every</b> <b>Implementation</b> <b>Proper</b> architect every projects architect every projects <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Ev</b>	eds and missions, and g	Distributed Energy Precurrent destances Precurrent Options generation generation generation generation generation generation Agency Renewable Electricity Use Agency Renewable Electricity Use agences are progressing toward meeting guids.	Landre Andre State Constanting
requirements, spency new requirements, spency new results of the second	eds and missions, and g	Destinated Energy     Destinate Energy     Destinate Energy     Destinate     Destinate	Lance Mark
requirements, spency real <b>Cast Started</b> <b>Distributed Every</b> <b>Implementation</b> <b>Proper</b> architect every projects architect every projects <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Every</b> <b>Ev</b>	eds and missions, and g	Distributed Energy Precurrent destances Precurrent Options generation generation generation generation generation generation Agency Renewable Electricity Use Agency Renewable Electricity Use agences are progressing toward meeting guids.	Lance Mark

ANTWENT OF IERGY of RGY EFFICIENCY OF EWABLE ENERGY				
P's Distribu rgy Program . Department of Ene ederal Energy Manag t's (FEMP) Distribute facilitates the impl cost-effective, on-site rgy and energy stor	n gement d Energy ementa- a renew-	FEMP's Distrib agencies that schroeder/NREL		n resources and assistance to federal minimized straig ungets. Analog hows
agies for federal age round d by FEMF in 1986 to genics implementing sections implementing sections that were using the factor of the power says fed Energy Program b regenice based on a equirement, agency variant of sites interventing and government best o distributed energy. If scal years 2008 and is distributed energy gene is distributed energy and is distributed energy and distributed energy and distribut	o support renew- y in mag diesel plies-the as evolved uurrent ueeds and practices 12016, ration ore than cost ased site	facilitates project nation through a implementation pursuing on-site energy storage p includes screenin and project valid ment developme operation and m performance isso <b>Resources a</b> To ensure that al access to compre about planning a tuck energy proj Energy Program from project assi	ated Energy Program t assistance and coordi- il phases of the project process for agencies renewable energy and rojects. Project assistance ngs, feasibility studies lation, procurement docu- nt and proposal review, aintenance planning, and aes.	develop and maintain trainings, took, and bet practices documents. These memory of the data with the docume project rack and increase the speed of project execution. 30 <b>Key Resources</b> <b>Net Resources</b> <b>Net School Unit</b> , Web tool to optimize about P and a totage for cost about P and a totage for cost about P and totage for cost and templates for emang sample sample growthere (SPC)
Phase 1 ject Identification Phase 4 Procurement	Ptoject Te	ase 2 am Formation ase 5 and Performance	Phase 3 Project Validation Phase 6 Federal Reporting	Technical specifications for on-site solar PV systems. energy.gov/hods/2245549 • EEMP Assistance: Contact Rachel Shepherd at rachel.shepherd@ec.dos.gov or visit www.4-eere.energy.gov/ femu/assistance.
Distributed Energy Prog		implementation pro	tion, visit: energy.gov/eere/f	

FEM

torne * Process for Planning and troplomenting Federal Distr	Boted Freigern
ederal distributed energy projects including	EMP) helps federal agencies plan and implement g on-site electric and thermal renewable energy and
nto a series of steps. By following FEMP's dis	ts is comprised of six phases. Each phase is divided stributed energy project process, agencies can nically sound, reduce energy costs for the federal missions.
Process Phases	
> Phase 1: Project Identification	O Phase 2: Project Team Formation
Phase 3: Project Validation	O Phase 4: Procurement
O Phase 5: Construction and Performance	🛇 Phase 6: Federal Reporting
Key Resources	
	and the second

FEMP's Distributed Energy Implementation Process Website

#### FEMP's Distributed Energy Program Website

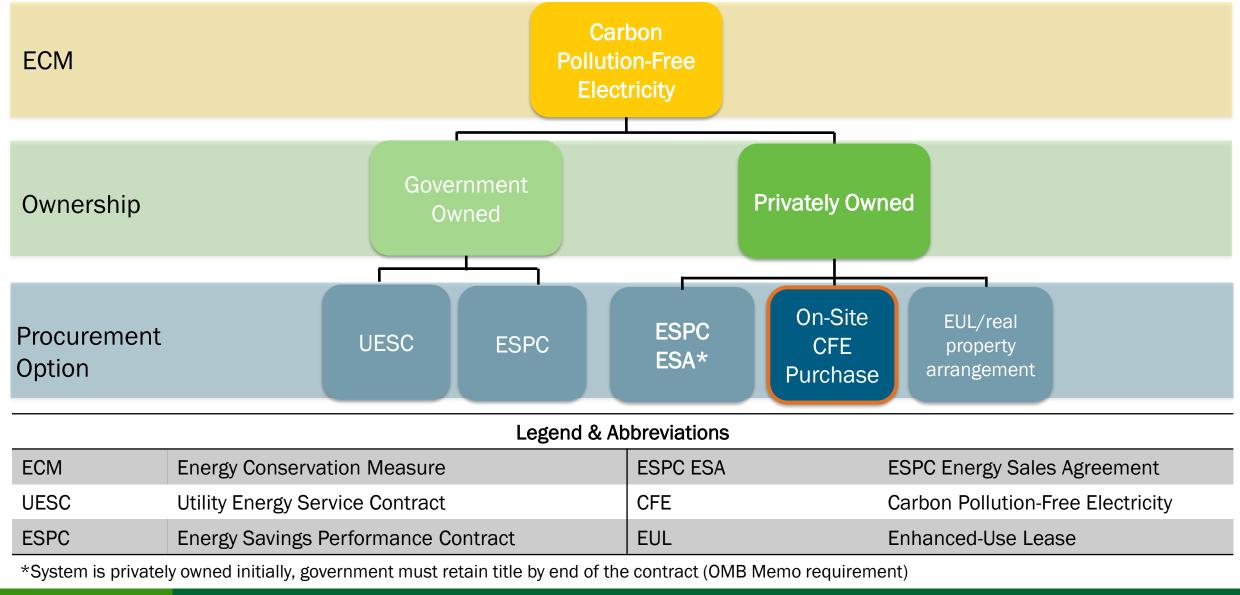
FEMP's Distributed Energy Program Factsheet

#### **Poll-Everywhere Instructions**

- We will be using live polling in our session today. Please either use the link in the chat box or type in the URL, <a href="https://PollEv.com/lcrow118">https://PollEv.com/lcrow118</a>, into your mobile device.
- When prompted to enter your name please select "skip" as all responses will be anonymous.
- If you have issues accessing the poll, please let us know in the Q&A box.
- Please leave your voting window open, as we have several polling questions throughout today's presentation.

# On-Site CFE Purchasing Options Overview

# **CFE Implementation Options**



# **Privately-Financed Project Considerations**

	Privately Financed	
Questions to Consider	Government Owned	Privately Owned
Is upfront funding required?	No	No
Can the project take advantage of tax incentives?	No	Yes
Are there financing costs associated with the project?	Yes	Yes
Is the government responsible for operation & maintenance (O&M)?	Yes	No

#### Federal Solar Investment Tax Credit (ITC)

- For developers (federal agencies are not eligible)
- Will decline from 26% currently, to 10% by 2024
- Table below shows ITC amount based on a project's placed in service date. However, projects can qualify for a higher ITC amount if construction commences in earlier years.

Year of Placement in Service	ITC Amount*
2022	26%
2023	22%
2024 onward	10%

#### Solar ITC Placement in Service Schedule



\*The ITC amount is a percentage of the total qualifying solar project cost basis.

#### **Solar ITC Commence-Construction Deadlines**

Solar ITC amount is based on the "commence-construction" year. See table below and <u>IRS Notice</u>\*:

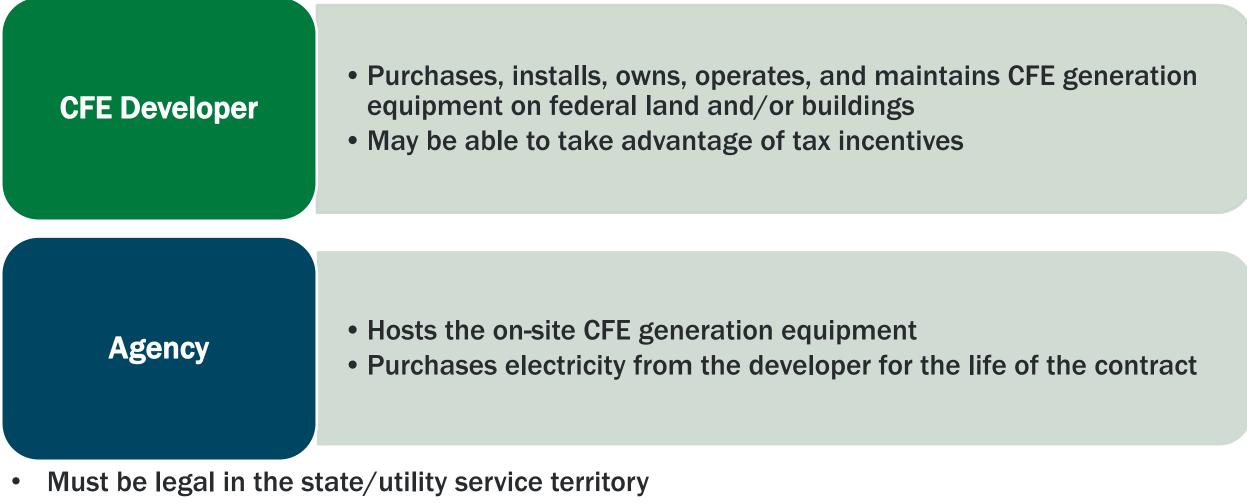
#### Solar ITC Deadlines

Year of Commence Construction	Deadline for Placement in Service	ITC Amount
2021-2022	End of 2025	26%
2023	End of 2025	22%
2024 onward	2024 onward	10%

Commenceconstruction before the end of 2023 to secure a tax credit higher than 10%.

\*The private project owner should seek tax advisor advice when applying this IRS Notice

# **On-Site CFE Purchase Basics**



- Best for large systems (generally >500 kW)
- Civilian agencies have limited long term contract options

#### **Illustrative Contract Structure**



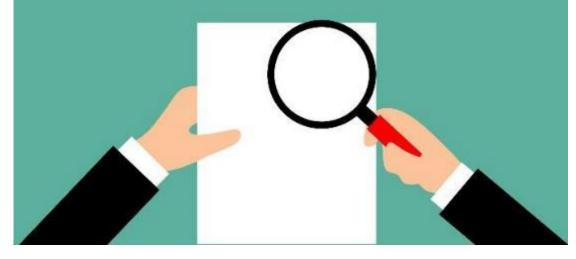
Two additional agreements are typically required:

- Interconnection Agreement- A signed interconnection agreement (ICA) with your utility is typically
  required to connect distributed energy projects. Who signs the ICA varies by utility; the federal site,
  CFE developer, or both may be required to sign.
- Site Access Agreement- CFE developers typically prefer a separate agreement for site access, although site access provisions could be included in the on-site CFE purchase contract
  - The best contract option varies by agency; common vehicles include site easements, leases and licenses.
  - FAR 52.241-5 Contractor's Facilities can also be used (grants a revocable permit or license).

### **Interconnection Agreement (ICA) Overview**

- ICAs may have problematic terms/conditions for federal agencies (e.g. indemnification)
- Negotiations may be necessary and can be lengthy
- GSA Areawide Contract Exhibit may be used
- Interconnection Checklist
- Questions to ask utility:
  - Who signs the ICA?
  - Is there a template (ideally federal or gov'tspecific)?
  - Can ICA be modified and if so, what approvals are required?

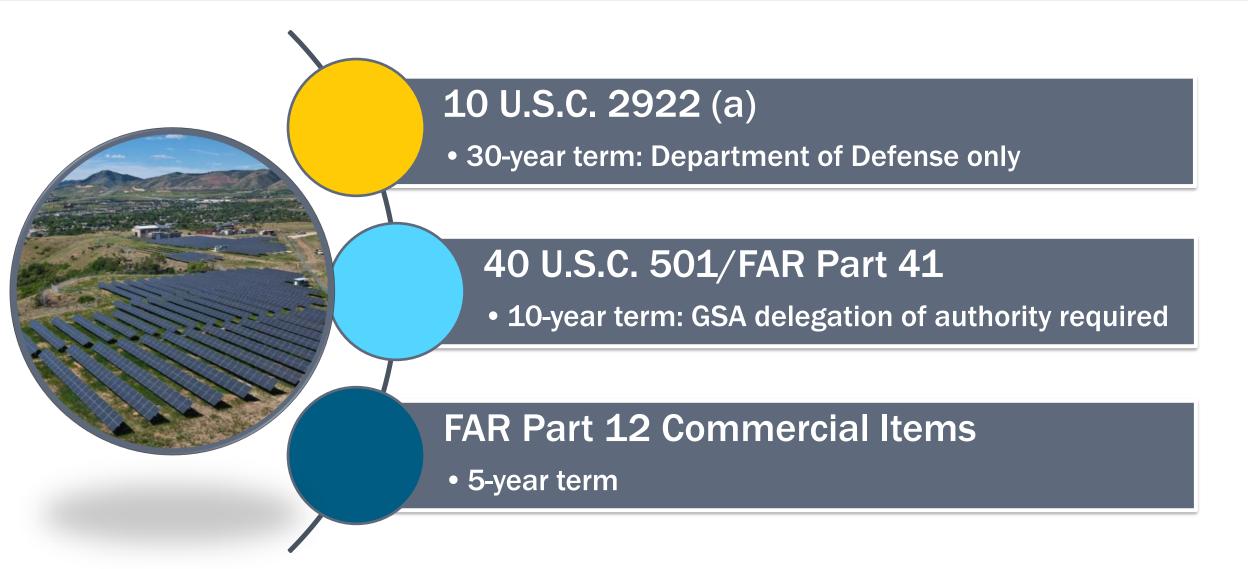
Bottom Line: Coordinate with utility and within your agency early; review ICA language carefully



# Considerations

- Agency authorities and policies- Agency requirements for site lease, easement, or license may vary
- Allowable contract length- Ensure term length matches with purchase contract term length
- Stakeholders- Consider site mission, conflicting land uses, and environmental/cultural restrictions
- Agreement signatory- Identify relevant Contracting Officer and other decision-makers
- Expected approval timeframe- Start site access agreement process early to avoid delays.

#### **CFE Purchasing Options Overview**



# Authorities and Contract Term Limitations

# 10 U.S.C. 2922 (a): Department of Defense Only

- Only available to the Department of Defense
- Requires Secretary of Defense approval (may be delegated to lower level)
- Contract term: 30-year maximum term



#### 10 U.S.C. 2922 (a)

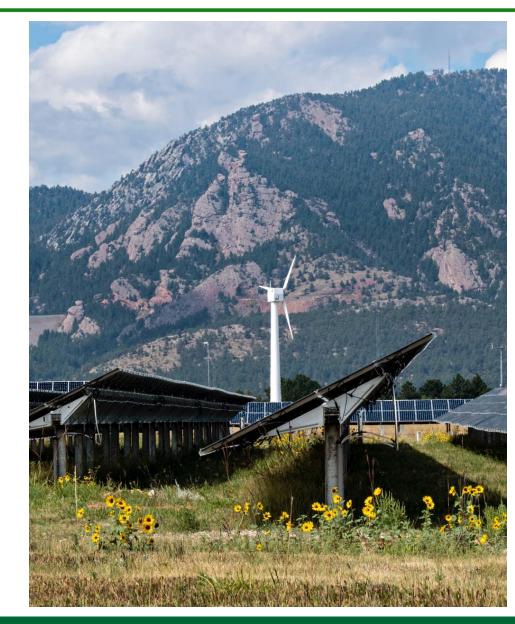
#### **Key Provisions:**

- "For the provision and operation of energy production facilities on real property under the Secretary's jurisdiction or on private property and the purchase of energy produced from such facilities."
- "(c) The costs of contracts under this section for any year may be paid from annual appropriations for that year."
- "(d) The Secretary concerned shall ensure energy security and energy resilience are included as critical factors in the provision and operation of energy production facilities under this section."

# 40 U.S.C. 501/FAR Part 41

- GSA is authorized by <u>40 U.S.C.</u> <u>501</u> (FAR Part 41) to prescribe policies and methods governing the acquisition and supply of utility services for Federal agencies.
- GSA delegation is required

Contract term: 10-year maximum term



# 40 U.S.C. 501/FAR Part 41: Delegation of Authority

- GSA has delegated this authority to the Department of Defense (DOD), including DLA Energy, and the Department of Energy (DOE)
  - Department of Veteran Affairs (VA) has delegation for connection charges only
- Otherwise, the agency must request a delegation of authority from GSA.
  - Initiating a request for a delegation of authority can be sent to <u>energy@gsa.gov</u>, per <u>FAR 41.301 Requirements</u>.

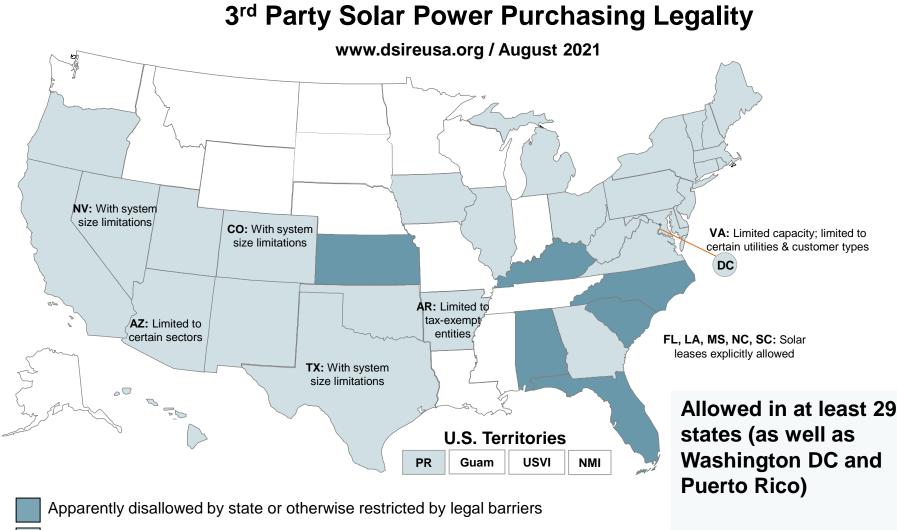
# FAR Part 12 Commercial Items

- The Commercial Item is the electricity being purchased
- Contract length limitation is typically 5 years
- Discuss applicability with agency contracting and legal staff
- Has not been used as primary authority to date, due to contract length limitation.
  - May be used in conjunction with other authorities



# **Legality of Third-Party Electricity Sales**

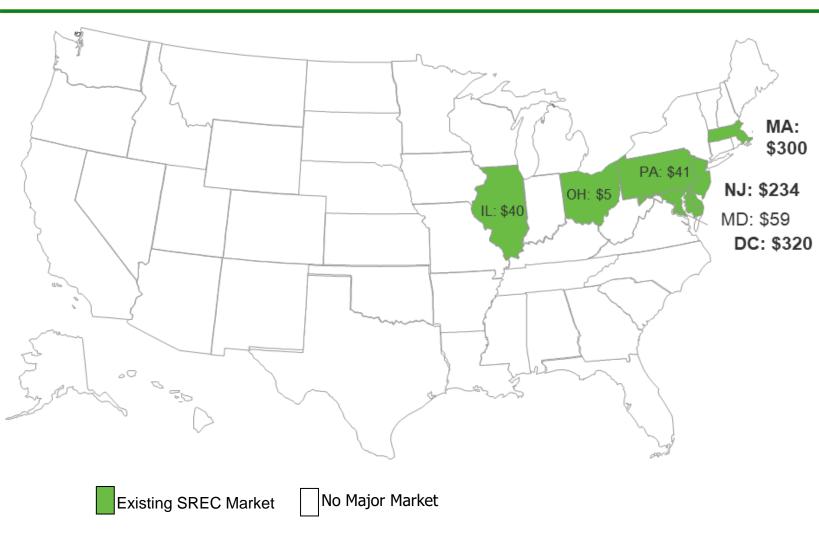
- Check the Database of State Incentives for Renewables and Efficiency (<u>DSIRE</u>) website for state policies
- Discuss planned project with your utility to confirm legal/regulatory considerations



Authorized by state or otherwise currently in use, at least in certain jurisdictions

Status unclear or unknown

## Key State Solar Renewable Energy Certificate (SREC) Markets



Pricing in \$/MWh from SRECTrade.com as of 6/17/2022

- Solar RECs can be a major project driver in certain markets such as Massachusetts, New Jersey and the District of Columbia.
- Voluntary REC market prices are much lower (typically less than \$5/MWh).
- Confirm compliance with applicable goal requirements, as well as agency policy.

#### **On-Site Clean Energy Considerations**



Specify deadlines in procurement documents to shorten implementation timelines.

Start long lead-time actions early in the development process (interconnection requirement discussions, NEPA, cultural/historic reviews).

Ensure Contracting Officer, agency HQ and site level buy-in early in the process; as well as their availability to support the project.

Maximize incentive use to improve project cost-effectiveness (property/sales tax exemptions, utility incentives, ancillary service sales).

Ensure contract specifies which party owns the RECs

# Strategies for Successful Procurements

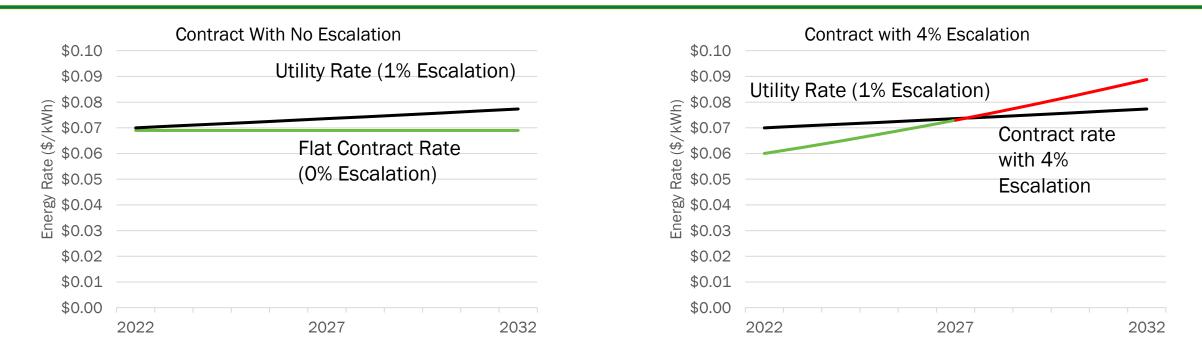
### **Request for Proposal (RFP) Recommendations**

- Develop RFP or other procurement document to include:
  - CFE generation specifications: technology type and location(s); resilience requirements (if applicable)
  - O&M/repair and replacement responsibilities
  - Any infrastructure requirements: roads, fence, site electrical upgrades, etc.
  - Interconnection responsibilities (including upgrades required by utility)
  - Cybersecurity requirements
- Discuss evaluation methodology and criteria with project team
  - Develop submittal requirements (prior experience, financial capability, references, etc.)
  - Select proposal evaluation methodology options: best value, low price/technically acceptable (LPTA), low price
  - Consider potential electric bill changes, such as standby charges and/or utility tariff changes

### **RFP Recommendations (Continued)**

- Select electricity price format
  - Fixed price or specify annual escalation factor (potentially based on NIST's <u>Energy Escalation Rate</u> <u>Calculator Webtool</u>)
- Specify metering requirements
  - Ensure compatibility with energy management system, site or agency metering protocol, REC purchaser and/or other applicable requirements
  - Real-time access to generation information
  - Include detailed cybersecurity requirements
- Identify end of contract options
  - System removal (with wear and tear accepted or with restoration to original condition)
  - System purchase at fair market value to meet IRS guidelines for tax incentive eligibility
  - Issue a new solicitation for a follow-on contract

# **CFE Purchase Contract Escalation Risk**



- Fixed rates with no escalation (Left) are easiest to evaluate and lowest risk but require a higher price upfront.
- The price can also be escalated annually (Right) in anticipation of rising utility rates.
  - 1-2% are common escalation assumptions
  - Higher escalation rates increase the risk that the CFE purchase rate could exceed utility rates in future years and result in a cost premium.

#### **Key Takeaways**

#### Ensure that third party sales of electricity are allowed in your site's utility territory

Research applicable incentives/policies (<u>DSIRE</u>) and discuss with your utility (net metering rules, tariff implications, standby charges, etc.)

Contact your serving utility early on for interconnection agreement and study requirements/timeframe/cost

Review agency contracting authority options and contract term limitations

Discuss NEPA requirements, site access agreement options, approval process.

# **Case Study**

### **Federal Aggregated Solar Procurement Pilot**

- Contract awarded by GSA Region 9 to Solar City in December 2015
- 5 MW, 7 locations (6 GSA, 1 USFS)
- Federal government expected to save an estimated \$5 million over contract (20 years)
- Carport at 2 locations was made electric vehicle ready
- Battery storage added to two sites



# Resources

#### **Useful Resources**

- FEMP On-Site Distributed Energy
   Page
- <u>FEMP Carbon Pollution-Free</u> <u>Electricity Resources Page</u>
- FEMP ESPC Energy Sales
   Agreement Page
- NREL Voluntary Green Power
   Procurement Page
- Interconnection Checklist
- <u>DSIRE</u>
- <u>REopt Web Tool</u>: DE modeling tool

#### Carbon Pollution-Free Electricity Resources for Federal Agencies

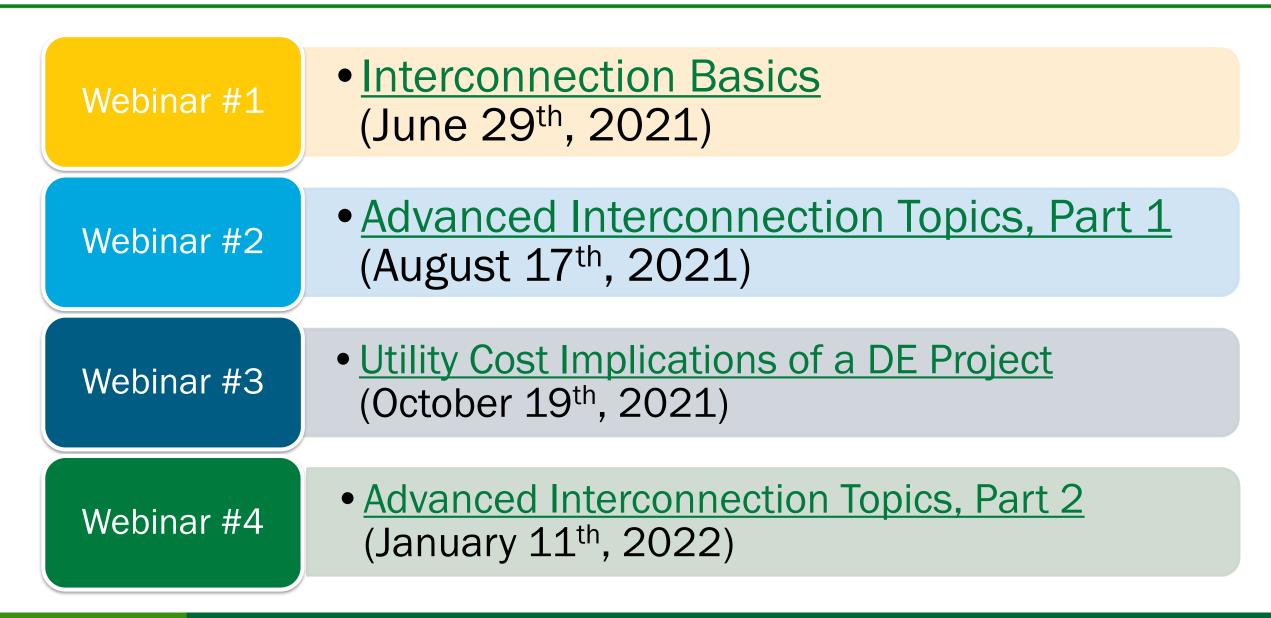
Federal Energy Management Program

Federal Energy Management Program » Carbon Pollution-Free Electricity Resources for Federal Agencies

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



#### "Working With Your Utility" Webinar Series



#### **Contact Information**



Federal Project Executives (FPEs)

Scott Wolf – FPE Western Region 360-866-9163 / wolfsc@ornl.gov

Doug Culbreth – FPE Southeast Region 919-870-0051 / culbrethcd@ornl.gov

Tom Hattery – FPE Northeast Region 202-256-5986 / thomas.hattery@ee.doe.gov

FEMP's Distributed Energy Team Main Points of Contact

Nichole Liebov – FEMP Program Lead / 202-586-9209 / nichole.liebov@ee.doe.gov

Douglas Gagne – NREL / 303-275-4351 / douglas.gagne@nrel.gov

Kathleen Krah – NREL / 303-275-3675 / kathleen.krah@nrel.gov

Gerald Robinson – LBL / 510-486-5769 / gtrobinson@lbl.gov

#### **Ask for Project Assistance**

- Request help with your project today!
- Fill out a quick and easy application through the FEMP portal

# Submit a Request <u>Here</u>

Office of ENERGY EFFICIENCY & RENEWABLE ENERGY

FEMP Assistance Request Portal » FEMP Technical Assistance for Distributed Energy Projects

#### FEMP Technical Assistance for Distributed Energy Projects

To request technical assistance for federal distributed energy projects, fill out the fields in the three form categories below. A FEMP project specialist will review your request and contact you shortly. Contact FEMP with questions.

#### \* Required

+ Contact Information

Project Information

Project Name \*

Project Location \*

Project Description and Status

Briefly describe the project you are pursuing and the current status of it.

**Project Champion and Team Members** 



### **IACET Credit for Webinar**





The National Institute of Building Sciences' (NIBS) Whole Building Design Guide (WBDG) hosts the FEMP training program's learning management system (LMS).

#### The WBDG LMS:

- Allows for taking multiple trainings from multiple organizations through one platform.
- Houses the assessments and evaluations for all accredited courses.
- Allows you to:
  - Track all of your trainings in one place.
  - Download your training certificates of completion.
- Eases the CEU-achievement process.

#### Visit the WBDG at <u>www.wbdg.org</u> to view courses and create an account

### **IACET Credit for Webinar**

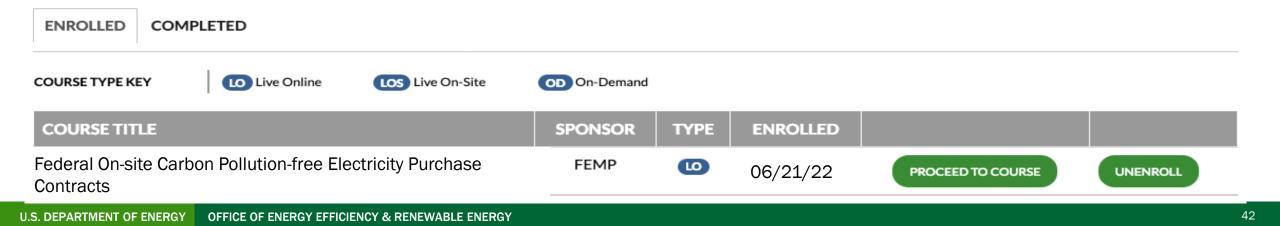
#### To receive IACET-Certified CEUs, attendees must:

- Attend the training in full (no exceptions).
  - If you are sharing a web connection during the training, you must send an e-mail to Elena Meehan (<u>elena.meehan@ee.doe.gov</u>) and indicate who was on the connection and who showed as connected (will reflect in the WebEx roster).
- Complete an assessment demonstrating knowledge of course learning objectives and an evaluation within six weeks of the training. A minimum of 80% correct answers are required for the assessment.

#### To access the webinar assessment and evaluation, visit:

https://www.wbdg.org/continuing-education/femp-courses/femplw07112022

If you have a WBDG account and enrolled previously, simply log in and click the *Continuing Education* tab on the user account page. Click *Proceed to Course* next to the course title.



#### **Disclaimer**

This work was authored in part by the National Renewable Energy Laboratory, operated by Alliance for Sustainable Energy, LLC, for the U.S. Department of Energy (DOE) under Contract No. DE-AC36-08G028308. Funding was provided by the U.S. Department of Energy Office of Energy Efficiency and Renewable Energy's Federal Energy Management Program. The views expressed in the presentation do not necessarily represent the views of the DOE or the U.S. Government. The U.S. Government retains and the publisher, by accepting the presentation for publication, acknowledges that the U.S. Government retains a nonexclusive, paid-up, irrevocable, worldwide license to publish or reproduce the published form of this work, or allow others to do so, for U.S. Government purposes.

Photo credits are available upon request.