

# Welcome to GSA Fleet's Desktop Workshop



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Presented by: Caitlin Dorame
June 2022

# **Agenda**

- ☐ Administration Priorities
- ☐ Why a BPA?
- Who can use the BPA?
- □ EVSE BPA highlights and timeline
- What's available on the BPA?
- ☐ A Complete Solution
- □ Site planning
- Workplace Charging
- Resources
- Question & Answer



### **Administration Priorities**

Transportation
Electrification primary pillar
of climate agenda

**Public Sector Electrification** 

Government to Lead by Example

Fleet Goals 100% Light-duty Acquisitions as Electric by 2027 | 100% of all Acquisitions as Electric by 2035 | Intermediary Targets | Update an Annual ZEV Strategic Plan | Telematics for Operational Data | Consolidate Agency-Owned Vehicles with GSA

EO 14057 E.O. Fact Sheet, Official Release, and Memo

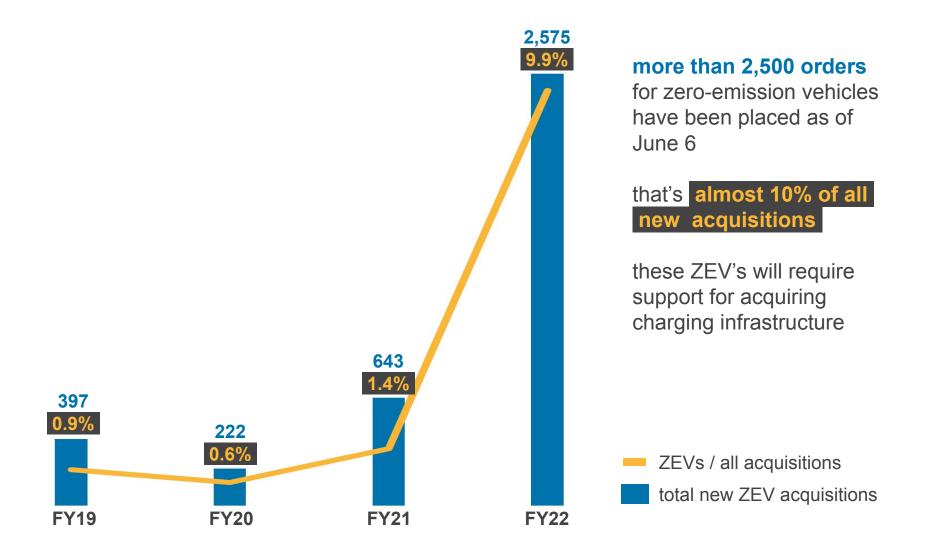
### How are we doing?

# Status to Date

62 ZEV Models awarded in FY22 | Maximizing Budgets through Financing Opportunities | Looking for opportunities to place ZEVs where anticipated ZEV models may have closed | Focusing on Infrastructure | Looking to GSA's EVSE BPAs | Updating annual Zev Strategic Plan

# **ZEV Purchases by Fiscal Year**

**GSA Fleet** 



# Why a Blanket Purchase Agreement?

- ☐ Simplifies the process of obtaining recurring products from a set of contractors
- □ Addresses IT & Security Requirements at the BPA level reducing redundancy
- **□** Discounts from MAS prices
- **☐** Technical Team vetted products
- **□** SOW for purchases under \$250K only required for hourly services

### Who can access the BPA?

- ☐ Any agency or entity that can lease or purchase vehicles from GSA
- □ Tribes
- ☐ State, Local & Tribal Governments
  - □ Emergency/disaster preparation, response/major disaster recovery (Stafford Act (42 U.S.C. 5121-5207));
  - When expending Federal grant funds in response to Public Health Emergencies (42 USC § 247d);
  - Cooperative Purchasing Program
    - Procuring IT (networks and software)
    - □ Law enforcement and security solutions in support of everyday missions (40 U.S.C § 502 (c))
- □ PBS Contractors through FAR FAR Subpart 51.1 Class Deviation CD-2022-04



# **BPA Award Highlights**

- Includes hardware, software, O&M, make-ready/site assessment services & more!
- Contract Length: 60 Months
- 16 offerors were awarded, including 9 small businesses
- Over 30 EVSE brands and 1,165 line items
- Onboarding Opportunities
- PBS Contractors can buy from FAS BPA holders creating a 1 stop shop for stations & installation
- View all offerings, pricing and BPA-holder information at <u>qsa.qov/evse</u>

# **EVSE Complete Solution Timeline**

#### 2023

All networked platforms achieve NIST approval OR FedRAMP ATO

**APRIL** 

EVSE BPAs Awarded
GSA awards 16 blanket
purchase agreements
offering more than 1,165
EVSE products across
over 30 unique brands.

**JUNE** 

**Security Review** 

IT assessment & evaluation begins to ensure the products meet IT and cyber supply chain requirements as required by BPA. 4-12 months until complete.

Site planning and non-networked stations do not require security review **.SUMMER 2022** 

### **GSA's Design/Build Construction Contracts**

PBS is awarding complementary design/build construction contracts to support EVSE infrastructure.

PBS contractors can order from the BPA.

### What's on the BPA?

#### **Services**

**CLIN 0006** 

#### **Hardware**

CLINs 0001, 0002, 0003, & 0011

### Management Software & Network Plans

CLINs 0007 & 0008

### **Warranty Plans**

**CLIN 009** 

### Charging as a Service

CLINs 002, 003, & 010

Site assessment
Validation
Permitting
Basic installation
Utility coordination
Wiring
and more

Level-1 Charger
Level-2 Charger
DC Fast Charger
Solar Charging
Portable Charging
Accessories

Power management
Network plans
Real-time analytics
Data plans
Cloud software

Parts-only
Parts & labor
Onsite repair
Replacement
1-5 year coverage

Assembly
Activation
Ongoing operator &
driver support
Charging data &
analytics
Power management,
and basic installation

# **EV Charging Station Infrastructure**

**Level-1 Charging** 110V/120V

**Level-2 Charging** 208V/240V

### **DC Fast Charger** 208V/480V











- come with adapter) 10-20 miles per hour charge

J1772 is standard (Tesla's

\$500-\$12,000

time







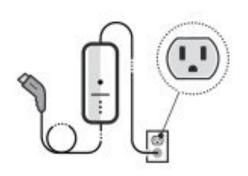
Tesla, SAE Combo, CHAdeMO

- Most vehicles use CCS (Tesla comes with adapter) Nissan Leaf uses CHAdeMo
- 50-90 miles in 30 minutes
- \$32,000+

- J1772 is standard
- 4-6 miles per hour charge time
- \$0-\$3K

- Finding a charger <u>plugshare.com</u> or <u>DOE Alternative Fueling Station Locator</u>
- Sites like <u>abetterrouteplanner.com</u> help you plan for charging on trips

# **Level-1 Chargers**











# **Level-2 Chargers**

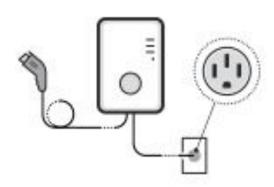


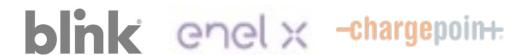


















PowerCharge™







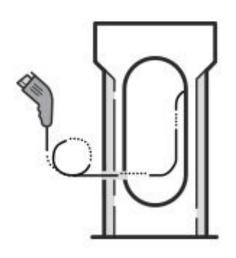








# **DC Fast Chargers**

















**SemaConnect** 

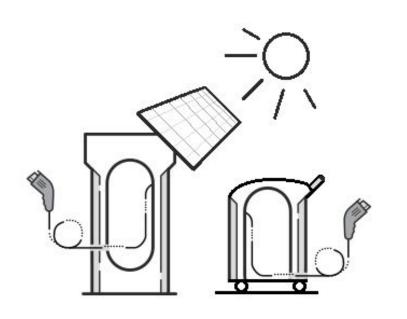








### **Solar and Portable Solutions**





# Station Mgmt. & Network Support



### **Take-Away**

Site planning services and non-networked Level-1 / Level-2 stations are available for ordering through the BPA today! ordering.

Agencies <u>CAN</u> purchase ALL BPA Offerings through MAS, but will need to evaluate each product at the agency level to ensure it meets agency-specific privacy, IT and cyber supply chain requirements.

Find all offerings, pricing and attributes on gsa.gov/evse



# GSA's Offers a Complete EVSE Solution

### GSA's EVSE Hardware/ Software/Services BPAs

### Hardware offerings for Level 1, 2 and DCFC

- Purchase and lease options
- Vendor Agnostic OCPP Stations & Software
- Data packages & Network services

### **Ancillary services**

- Energy metering & load management
- Operation/maintenance plans
- Site assessment/make-ready charging solutions (no installation)

### **Compliant with Federal IT Security requirements**

**Product Onboarding / Offboarding opportunities** 

#### **Small Business Preferences**

\*Products undergoing vetting by OCIO prior to opening for ordering but available for ordering through MAS.



### Turnkey through FAR 51 Deviation

Assisted acquisition and self service options

GSA.gov landing page, fact sheets and triage

# GSA's Design/Construction Contracts

Provide construction and design/build to support EVSE installations government-wide Capabilities include but are not limited to:

- Feasibility Study/Site Assessment
- Repair and Alterations
- Electrical Infrastructure Upgrades (e.g., conduit, switchgear, modification of existing electrical distribution system)
- Testing/Commissioning/Utility Coordination
- Other related work (e.g., trenching, bollards, HVAC, fire protection)

#### **National & Zonal IDIQs**

### **Small Business Opportunities**

\*Award anticipated July 2022. Special Programs Division in ODC can take projects on today!

### **Preparing for EVSE Acquisition (FAR 8.4 Buys)**

### **Supplies**

FAR <u>8.405-1</u> (a statement of work is **NOT** required unless over SAT or \$250K). Reviewing & selecting Best Value is providing Fair Opportunity to each BPA holder

### Services (CLIN 006)

FAR <u>8.405-2</u> a statement of work **is required** SOW should include:

- the description of the supplies to be delivered or the services to be performed
- the basis upon which the selection will be made (evaluation criteria)
- quote due date

### **Benefit of BPAs**

Fair Opportunity Has Been Given, so Market Research can be from BPA Offerings

Sample RFQs available at gsa.gov/evse

# Recommended Agency Steps for Infrastructure Planning

Collaborate

Engage Agency or GSA facility manager and involve local utility provider as early as possible

**Assess** 

Building will move forward with a site assessment and engage local utility on capacity, funding, and possible incentives

**Acquire** 

With information from the site assessment, acquire EVSE, software, O&M, and/or consulting/make-ready services through GSA's EVSE BPA

Install

Install infrastructure utilizing GSA's IDIQ Design/Build construction contracts (if you want a turn key solution, use Charging as a Service on GSA's EVSE BPA or contact PBS prior to Acquiring stations)

### **Infrastructure Planning - Best Practices**

### Requirements Development

- What are minimum requirements needed?
- Mount type
- Plan for long term to scale quickly & keep overall cost down (conduit can be installed for future stations)
- Allow for payment collection if needed for POV charging
- Network capability if station(s) will not be in secure location

Start with a Site Assessment (CLIN 006 on BPAs)

Engage with Utility (share expected load. Also, take advantage of incentives)

Solution should be **repeatable & standardized** as possible, lowest-cost option that will fit needs

Level-2 may be sufficient for most agencies, except possibly for LE missions

Can vehicles charge elsewhere?

If not, look to solar & battery storage where capacity doesn't exist or will be costly

# **Connecting the Dots:** Using BPAs to Plan



2

3

### Visit gsa.gov/evse

For a full list of available products, vendor information, and ordering guide

# **Agency Contracting Officer (CO) Determines Acquisition Threshold**

Orders < SAT (\$250,000): the ordering activity must review product guide providing each BPA holder a fair opportunity unless only 1 BPA holder can meet need. Order >SAT (\$250K) provide an RFQ to all BPA Holders. SOWs are required for services (CLIN 006)

# Agency CO Places Order Against BPA

In accordance with FAR 8.405(C) requirements. All order and delivery arrangements are made by the agency.

### **Considerations**



#### **Site Assessment**

- Available electrical service
- → Parking spots
- Preferred placement
- ☐ Can the work be included in EVSE solicitation?

### Use CLIN 0006 in BPA or site-prep category on MAS

List desired outcomes:

- ☐ Site selection
- → Ability to meet current/future requirements



### **Charging Stations**

- ☐ Level of Station(s)
- Networked / non-networked
- ☐ Does it need to accept WEX?
- Number of Ports
- □ Renewable solutions?
- □ Portable?

### Installation

- ☐ Electrician/Engineers on Site?
- Assistance from GSA PBS IDIQ Contracts? (pbs-evse-solutions@gsa.go v)



- □ Open Market?
- ☐ Charging as a Service?

### **Take-Away**

Site planning is a crucial step in the infrastructure development process. Involve your facility manager and utility company early in the process.

## Facilities GSA's EVSE Solutions Supports



YES - PBS handles all installs and purchases



YES - GSA's involvement varied based on delegation of authority; GSA/PBS should be involved regardless

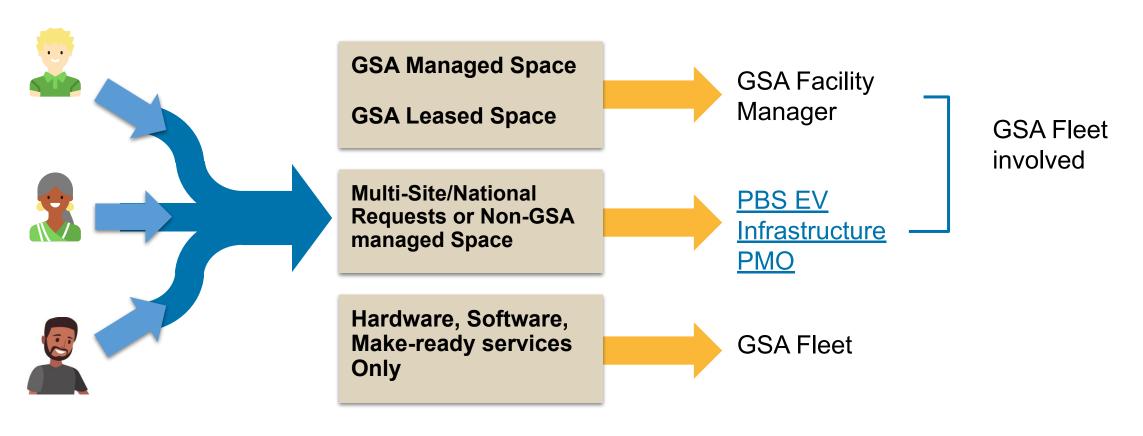


NO - Lessor can use BPAs for market research but can't buy from BPAs



YES - Can use BPAs exclusively or BPAs & IDIQ

# Working with GSA



Looking for install? Submit a Work Request through eRETA to get the ball rolling

# **Types of Assistance**

#### **Self-Service**

- Non-GSA controlled space only
- Purchase from GSA's EVSE BPAs
- Agency handles contracting for stations, construction/ installation of station (s)

### GSA Buys Stations Only

- Non-GSA controlled space only
- GSA purchases stations on behalf of agency for a fee
- Customer agency handles contracting for construction/ installation

### Design-Build Contracts Access Only

- Non-GSA controlled space
- Customer agency CO awards task order (for a fee)
- Can have PBS contractors buy stations or buy stations themselves

### GSA Awards Task Order & Manages Project

- GSA controlled space, agency <u>must</u> come to GSA for full service (RWA fee structure)
- Non-GSA controlled space, customer agency may utilize GSA to provide full service (RWA fee structure)

### Charging as a Service

- Vendor on GSA's
   EVSE BPA does
   station buy, install etc.
   and "leases" station(s)
- Agency pays a monthly fee for fixed and variable costs & management (could include install, doesn't have to)

Less Assistance (Less Fees)

More Assistance (Generally Higher Cost)

### **Estimated Installation Costs & Schedule**

- Department of Energy NREL <u>Federal Workplace Charging Program Guide</u>, estimates the installation costs for a
  - 120 V receptacle at ~\$500/port; and
  - ~\$2,000/port for Level 2

However, larger installations will most likely see a lower per-port cost, while smaller sites will probably see a higher per-port cost.

- Electricians/engineers estimate installation is at the very least 50-60% of the total cost of the project (including materials). Therefore if a station is \$7,000 dollars, you can expect installation to be at least \$7,000-\$8,400 dollars.
- An EVSE-specific site assessment usually costs \$600+ dollars and is a great place to start.
- In GSA managed space, GSA will take your requirements and move ahead with conducting an assessment. An RWA is required.

# **Costs: Station Selection by Level**

Charging Level	# of Ports	Voltage (V)	Charge Time	Est. Cost
Level 1	1	110/120V	4-6 miles per hour	\$0-\$3K
Level 2	1 or 2	208/240V	10-20 miles per hour	\$2-12K
DC Fast Charging	1 or 2	480V or 208V	50-90 miles in 30 minutes	\$30K+

# Sample ZEV Offerings & Recharge Times

2022 Electric Vehicle	Range	Level-1 120V Recharge Time	Level-2 240V Recharge Time	DC FAST Recharge Time
Nissan Leaf (base)	149 miles	30 hours	7.5 hours	1 hour
Chevy Bolt EV	259 miles	64 hours	9 hours	1.4 hours
Ford Mach-E (base)	230 miles	95+ hours	14 hours	1 hour
Tesla Model 3 (base)	263 miles	24+ hours	8 hours	20-60 minutes
Hyundai Ioniq 5	303 miles	25+ hours	6-9 hours	18-60 minutes

### **Estimated RWA Costs**

# GSA is working on refined EVSE RWA Schedule/Process

- If Agency plans to pay for stations and manage contract, it will likely be a 1-2% contracting fee
- If Agency wants GSA to install stations via RWA then please use this RWA table
- Max fee is the regular RWA fee

#### Note:

- This new fee structure will apply to all project costs with the exception of certain personal property expenses.
- Commensurate with the implementation of the new fee structure, the flat fee for recurring RWAs will increase to \$500.

Rate	Range - Low	Range - High	Maximum Fee for Range
Flat \$500	\$0	\$1,999	\$500
25%	\$2,000	\$4,999	\$1,250
23%	\$5,000	\$9,999	\$2,300
21%	\$10,000	\$14,999	\$3,150
19%	\$15,000	\$19,999	\$3,800
17%	\$20,000	\$24,999	\$4,250
15%	\$25,000	\$49,999	\$7,500
14%	\$50,000	\$99,999	\$14,000
13%	\$100,000	\$149,999	\$19,500
12%	\$150,000	\$199,999	\$24,000
11%	\$200,000	\$249,999	\$27,500
10%	\$250,000	\$349,999	\$35,000
9%	\$350,000	\$449,999	\$45,000
8%	\$500,000	\$749,999	\$60,000
7%	\$750,000	\$1,249,999	\$87,500
6%	\$1,250,000	\$1,999,999	\$120,000
5%	\$2,000,000	\$2,999,999	\$150,000
4%	\$3,000,000	\$4,999,999	\$200,000
3%	\$5,000,000	∞	∞

# Planning & Considerations

### **Agency Considerations**

- Which vehicles will transition and when?
  - Fleet Manager/agency coordination
  - Fleet electrification plan
  - Which sites will require charging stations
- GOV/POV use
- Vehicles & Charging Stations: <u>gsa.gov/afv</u>

### **GSA Provides** (funded through Agency RWA)

- EVSE site assessment & project management
- Parking lot reconfiguration
  - Conduit/trenching costs
  - Proximity to power
- Charging station type/level
- Service panel connections
- Upgrade electrical equipment
- Utility coordination
- Installation: <a href="mailto:pbs-evse-solutions@gsa.gov">pbs-evse-solutions@gsa.gov</a>



# Workplace Charging

# Workplace Charging & the Fast Act

### Section 1413 of the Fixing America's Surface Transportation (FAST) Act

- Authorizes GSA and all other Federal agencies to install, operate, and maintain electric vehicle (EV) charging stations for privately owned EV's (POV's) in parking areas used by Federal employees and authorized users
- Requires the collection of fees to recover these costs.

\*Per the FAST act, you are not required to recoup costs for fleet stations that receive incidental POV use.

### **Workplace Charging Revenue Options**

### **Collecting Fees to Recover Costs**

- Reimbursable Utility Account
- Pay.gov
- Third Party Charging Network Provider
  - Physical check mailed or an ACH wire transfer (usually a fee)
- HR as a deduction in Payroll



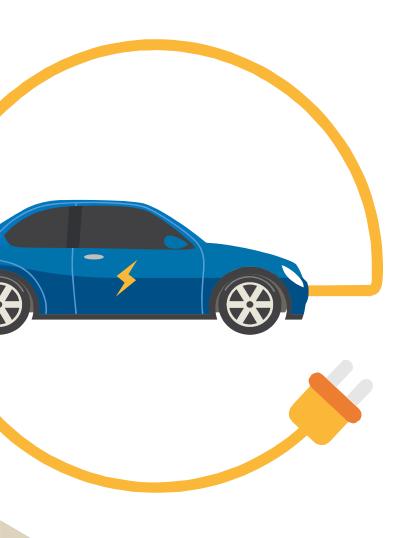
# Workplace Charging Cost Models for POV Charging

Option 1 (ex: FDA White Oak)	Cost
Flat Fee	\$1.25
Price per kWh	\$0.13
Cost of electricity for standard EV per kWh to GSA	\$2.73
EVCS for standard EV Revenue Generated	\$5.15
Standard EV Charge Net Income	\$2.42

Option 2 (lower flat-charge fee)	Cost
Flat Fee	\$0.75
Price per kWh	\$0.15
Cost of electricity for standard EV per kWh to GSA	\$2.73
EVCS for standard EV Revenue Generated	\$5.25
Standard EV Charge Net Income	\$2.52

 additional workplace charging resources available at DOE's <u>Alternative Fuel Vehicle Data Center</u>





# **Future Events**

Virtual and in-person customer vendor days

- October 2022, in-person **Customer / EVSE-Vendor Day** at GSA's Headquarters at 1800 F Street in Washington, DC!
- FedFleet 2023

### Resources

EVSE Station Acquisition, ZEVs, Planning for ZEVs and other general EVSE resources



Local GSA Fleet Management
Center at <a href="mailto:gsa.gov/fsr">gsa.gov/fsr</a> or
GSA Fleet ZEV Team at
<a href="mailto:gsa.gov">gsafleetafvteam@gsa.gov</a>



Design & Build services, Site Planning, Installation Assisted Acquisition



Facility Manager

For Multi-site Locations or general

questions:

GSA Center for EV Infrastructure at

pbs-evse-solutions@qsa.qov

gsa.gov/evse



# Thank you!

gsa.gov/evse

gsafleetafvteam@gsa.gov



