U.S. General Services Administration

GSA Virtual EVSE Showcase

August 29 & 30, 2023

EVSE BPA & IDIQ 101: Preparing for the Buy

Speakers: Lisa Wheatley, MacKenzie Dunn, Jimmy Rogue

Problem Statement

How to streamline EVSE procurement across the government?

U.S. Vehicle Electrification Initiative

Advancing the EV Market

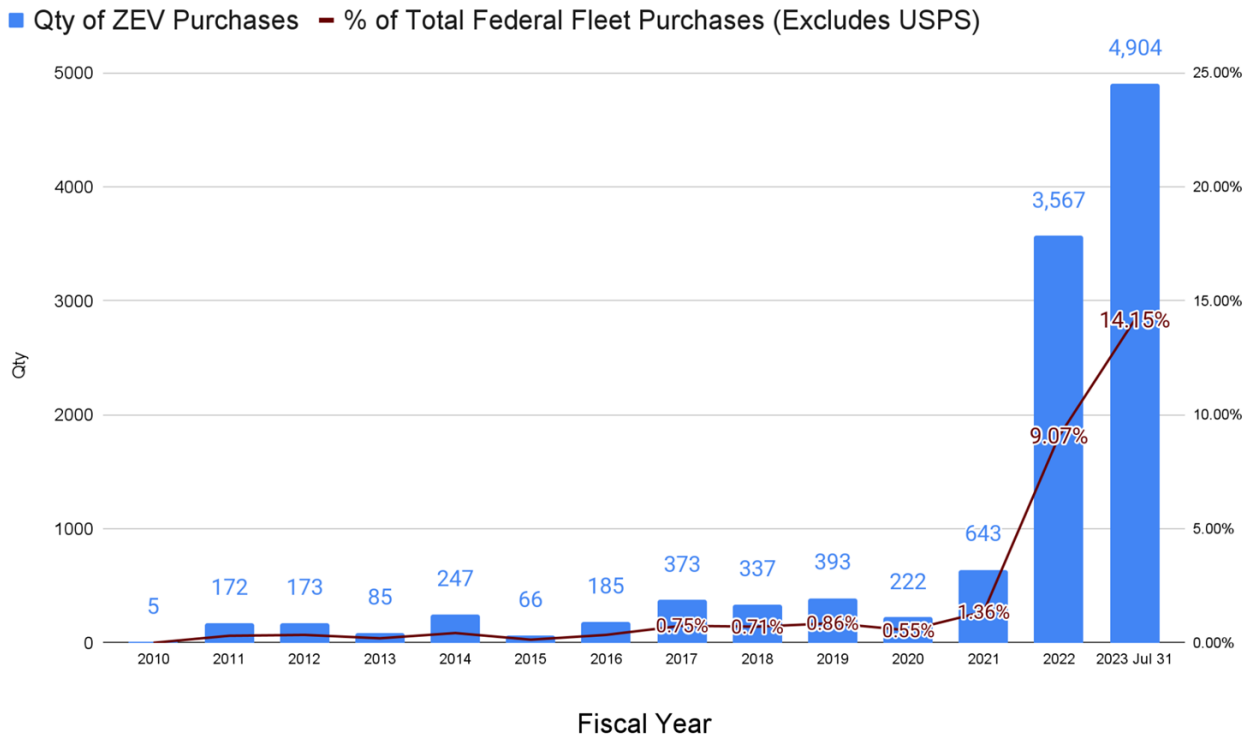
- Executive Order 14037 (50% of auto sales ZEVs by 2030)
- Proposed CAFE standards
- Building out nation's public EV charging infrastructure
- Domestic production and manufacturing
- EV tax credits and direct payments

Leading by Example

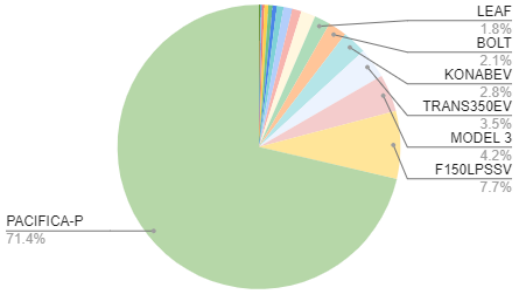
- E.O. 14057 (**100% of light-duty vehicle acquisitions** as ZEV by 2027; **100% of all acquisitions** by 2035)
- Federal Fleet electrifying today
- **GSA providing EVSE acquisition pathways to support ZEVs**
- All agencies are already piloting and building out electric vehicle infrastructure at Federally-occupied Facilities

gsa.gov/electrifythefleet

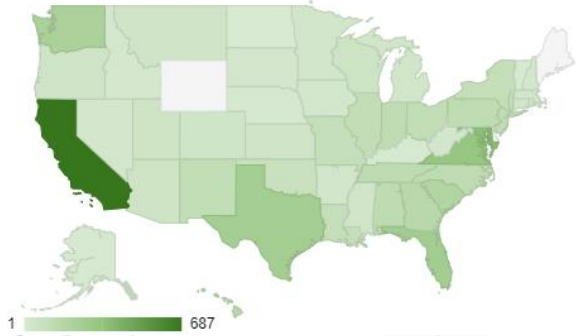
Federal Electric Vehicle Orders



FY23 Orders by Model



FY23 Orders by State



Battery and Plug-in Hybrid EV Comparison

Battery Electric Vehicle (BEV)		Plug-in Hybrid Electric Vehicle (PHEV)
Operate on 100% electricity		Operate on electricity & gas
Optimal for less than 200 miles / day		Optimal for short trips <30 miles/day regularly with occasional 200+ mile trips
Need access to Level 2 charger or higher		Level 1 or Level 2 charger will suffice
Available in Sedan, SUV, Light Truck & Bus		Available in Sedan, Minivan & SUV

BEVs are more efficient, both fuel and cost wise! BOTH types require infrastructure or for PHEVs, at least an outlet to plug into!

EV Charging Infrastructure

Level-1 Charging 110V/120V

NEMA 15

- J1772 is standard
- 4-6 miles per hour charge time
- $

Level-2 Charging 208V/240V

J1772

- J1772 is standard (Tesla's come with adapter)
- 10-20 miles per hour charge time
- $$

DC Fast Charger 208V/480V

Tesla, SAE Combo, CHAdeMO

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

Go to gsa.gov/EVSE to see equipment costs on the BPA

EVSE by Recharging Time

Electric Vehicle	All Electric Range/Total Range	Level 1/120V Recharge Time (hrs) Least Expensive	Level 2/240V Recharge Time (hrs) Moderately Expensive	DC FAST (50-150 kW) Recharge Time (hrs) Most Expensive
		4-6 miles of range per hour. *Charging cord provided. Plug into existing outlet or station*	***10-20 miles of range per hour****. 2-10 hours for full charge.*	***50-90 miles of range per 30 mins****. Full charge in 30 minutes-1 hour.*
Nissan Leaf (base)	149	30	7.5	1
Chevy Bolt	259	64.8	7	1.4
Chrysler Pacifica PHEV	32/520	14	2	N/A
F150 Lightning (base)	230	72+	10-14	0.7-2
Mustang Mach-E (base)	224	95+	14.1	1
Hyundai Kona	258	50+	9.5	1
Ford Escape PHEV	37/520	10	3.3	N/A
Jeep Wrangler PHEV	22/370	12	2.4	N/A

Where We've Been

GSA can provide EVSE install upon request (and funding) in GSA owned space)

2011-2012

<u>1st EV Pilot</u>
- ▷88 Stations purchased to support 116 vehicles
- ▷AutoFlex (Eaton) (63)
- ▷Siemens (20)
- ▷Carbon Day LLC (5)

2014

<u>2nd EV Pilot</u>
- ▷168 Stations purchased to support 200 vehicles
- ▷Apollo Sunguard (ChargePoint) (168)
- ▷Monitor data
- ▷ChargePoint accepts WEX

2014-2016

- ▷No GSA solution in place
- ▷FAST Act allows federal workplace charging
- ▷GSA published 2016 Guidance for GSA tenants on FAST Act allowing POV installs

2017-2022

- ▷A few EVSE firms on MAS
- ▷60 month BPA with Apollo Sunguard & PLEMCo
- ▷5 Brands/30+ offerings
- ▷ChargePoint accepts WEX & Voyager
- ▷ChargePoint adds roaming networks that also accept WEX via RFID: EV Connect, EVGo, Flo, EV Box

EVSE BPA Benefits

Benefit of BPAs:

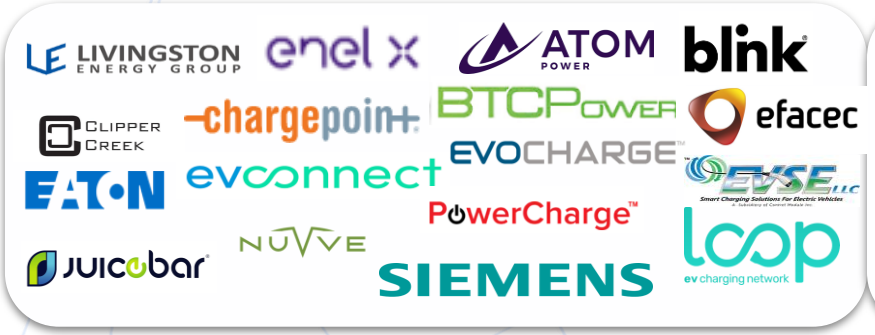
- ➔ Streamlined contracting vehicle
- ➔ Pre-Competed
- ➔ Pricing discounts
- ➔ Technical evaluation of products
- ➔ Includes additional requirements on top of MAS such as IT Security

Who can access:

- ➔ Federal agencies
- ➔ Contractors with PBS' Governmentwide Design/Build & Construction EVSE IDIQs
- ➔ Cities & States for emergency or disaster preparation, public health emergencies, or through the cooperative purchasing program

EVSE Product Offerings

Levels 1 & 2



Level 3 (DC Fast)

Solar & Portable

Software & Network Plans

How to Use the BPA

1

Visit gsa.gov/EVSE

Self-Service! Work directly with the vendor

For a full list of available products, vendor information, and ordering guide go to gsa.gov/EVSE.

2

Agency Contracting Officer (CO) Determines Acquisition Threshold

- Orders < $10K: can be placed directly with any BPA Holder that can meet the need.
- Orders > $10K and < $250K: must provide each BPA holder a fair opportunity.
- Orders > $250K: send Request For Quote (RFQ) to all BPA Holders that offer needed product/service. SOWs are required for services (CLIN 006).

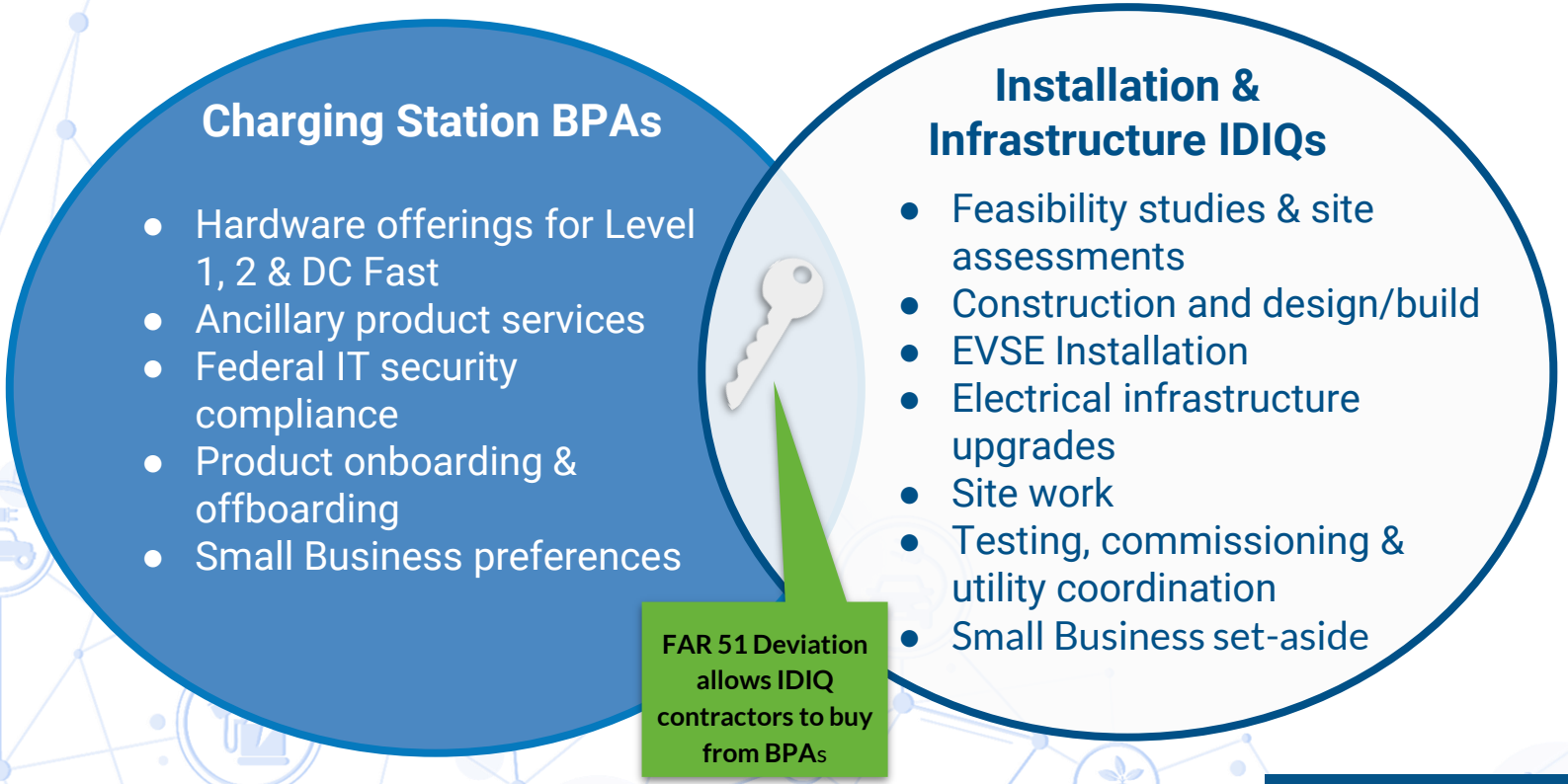
Exceptions: Orders above $10K can be placed directly if determined and documented that only 1 BPA holder can meet need.

3

Agency CO Places Order Against BPA

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

Charging Made Easy: One Streamlined GSA Solution



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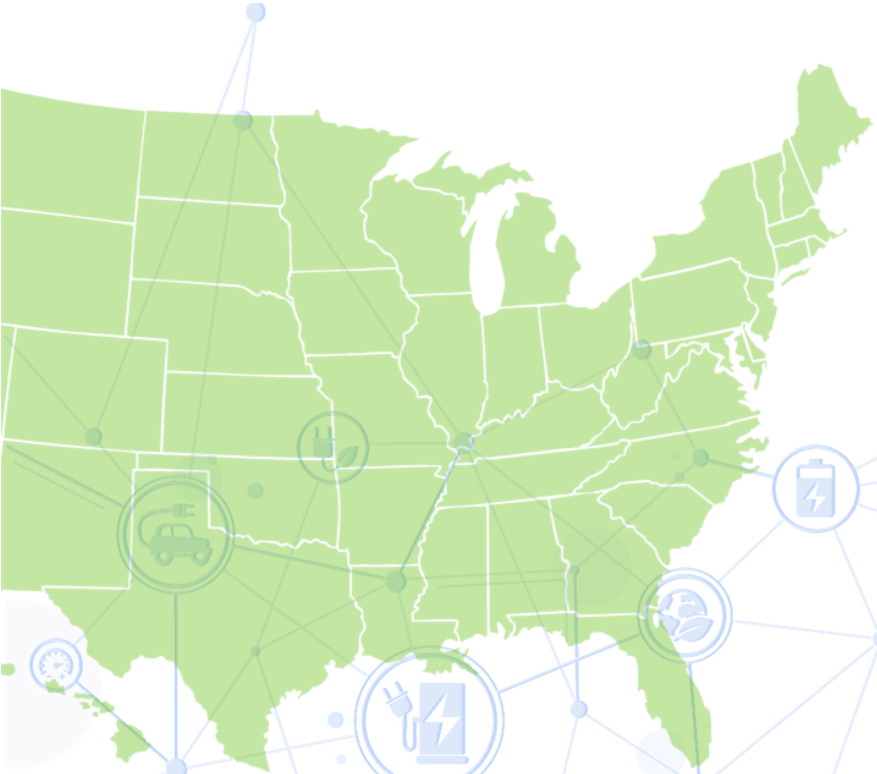
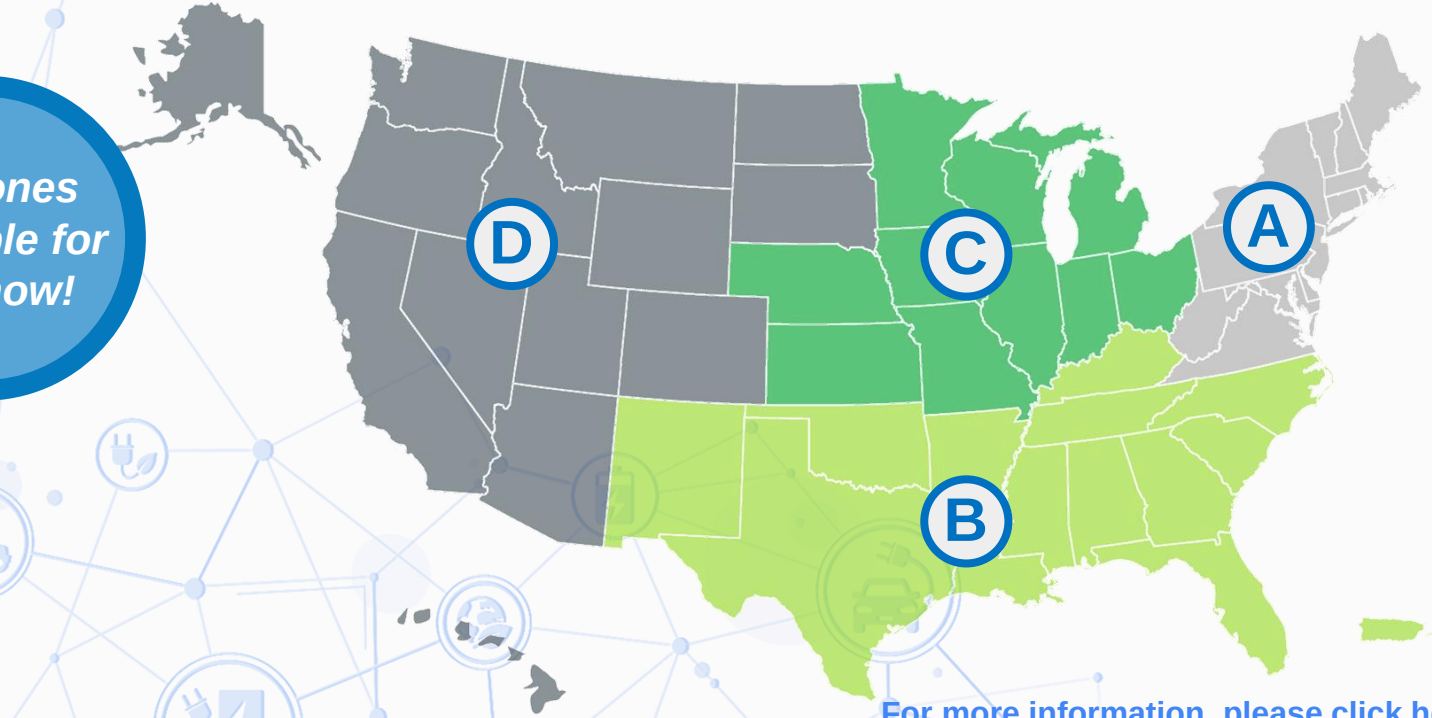
Governmentwide IDIQ Overview



- **Covers any Federal agency location**
  - Including GSA controlled space and non-GSA controlled space
- **Four Geographic Zones**
- **$500 million total ceiling per Geographic Zone**
  - Across all IDIQ contracts within each Geographic Zone
- **1 year base with four 1- year option periods**
- **Total Small Business Set Aside**
  - Most IDIQ contractors are socioeconomic small businesses

IDIQ Geographic Zones

All Zones available for use now!



[For more information, please click here]

EVSE Ordering Paths

GSA/PBS Full Service Award & Management

For buildings <u>in or not in</u> GSA's Building Portfolio

Submit requirements & funding through <u>eRETA</u>

Self-Service Design & Construction IDIQ

Self-Service for EVSE Products & Services BPA

For buildings <u>not</u> in GSA's Building Portfolio:

Agency requests GSA Delegation of Procurement Authority from GSA; FULL ACCESS

One time contract access fee of $1,625

Agency views offerings & orders from BPA Holder

Delegated Procurement Authority

- ➔ *A Delegation of Procurement Authority (DPA) outlines the roles and responsibilities between the GSA IDIQ Contracting Officer (CO) and the Ordering Contracting Officer (OCO).*
- ➔ *Other Federal Contracting Officers may issue task orders under the IDIQ contracts once granted a DPA.*

GSA Controlled Space	Non-GSA Controlled Space
	
Task orders may be placed by:	
● GSA PBS Contracting Officers	● GSA PBS Contracting Officers ● Other Federal Contracting Officers **with a DPA**

DPA Benefits

- **Once granted a DPA, OCOs may issue one or more task orders in any zone**
- **Contract access fee is paid once for the life of the DPA**
- **DPAs are valid for life of the IDIQ's**

Delegated Procurement Authority Continued

Receive a DPA in 3 Easy Steps

Visit our site *to learn more about DPAs and these IDIQ contracts.*

1. Ordering agency contacts **pbs-ev-idiq@gsa.gov** to request procedures for providing a Reimbursable Work Authorization (RWA) in eRETA for $1,625 per DPA.
2. DPA requestor reviews the Ordering Guide and any supplemental training materials located **here**.
3. DPA requestor completes the DPA Request Form located **here**.

EVSE Planning

- ➔ Plan for long term to scale quickly & keep overall cost down
- ➔ Allow for payment collection if needed for POV charging
- ➔ Network capability if station(s) will not be in secure location
- ➔ Charging parameters are limited by vehicle

Per GSA P-100 (GSA's Stds), federal fleet EVSE infrastructure must minimally include:

- **Level 2 chargers (dual port)**
- **Lots with less than 5 GOVs = 2 ports**
- **Lots with 5-15 GOVs = 4 ports**
- **Lots with greater than 15 GOVs = 30% ratio of cars to ports.**
- **At least one ABAAS compliant space**

*Level 2 will be sufficient for most agencies except possibly for LE missions.

EVSE Project Planning

- ➔ Develop your team - involve GSA early in the process
- ➔ Plan EVSE before ZEV
- ➔ Understand your need
- ➔ Utility company coordination
- ➔ Site Assessments
- ➔ Other scope items: signage, bollards, lighting, ABAAS, network capabilities.
- ➔ Consider realistic lead times
- ➔ Collect lessons learned
- ➔ Team work

Challenges to plan for

- Current Challenges
  - Electrical Upgrades
  - Fire and Life Safety
  - Code Changes
  - Model Availability/Supply Chain
  - Cultural Shift
  - Learning Curve

GSA's Plans in our Buildings Moving Forward

- ➔ GSA managing a nationwide site assessment project for 235 PBS owned buildings
  - ◆ Comprehensive analysis of existing electric distribution system's capacity to support conversion of all GOVs stationed at a facility.
  - ◆ Determining qty of charging stations that can be installed
  - ◆ Will help identify where upgrades are needed
- ➔ Additional building assessments in FY24.
- ➔ Fire and Life Safety Data Call
- ➔ Delegations of Procurement Authority for customers not in GSA controlled space

O’Neill Federal Building (Boston, MA)

- Thomas O’Neill Federal Building (Boston, MA)
  - SOW: 68 level 2 charging ports - inclusive of ABAAS.
  - Local utility company is paying for all infrastructure costs on the utility side of the meter and ~13k/port from the meter to garage.
  - Significant cost savings to the government (~$900K)
  - Single EVSE vendor on-site

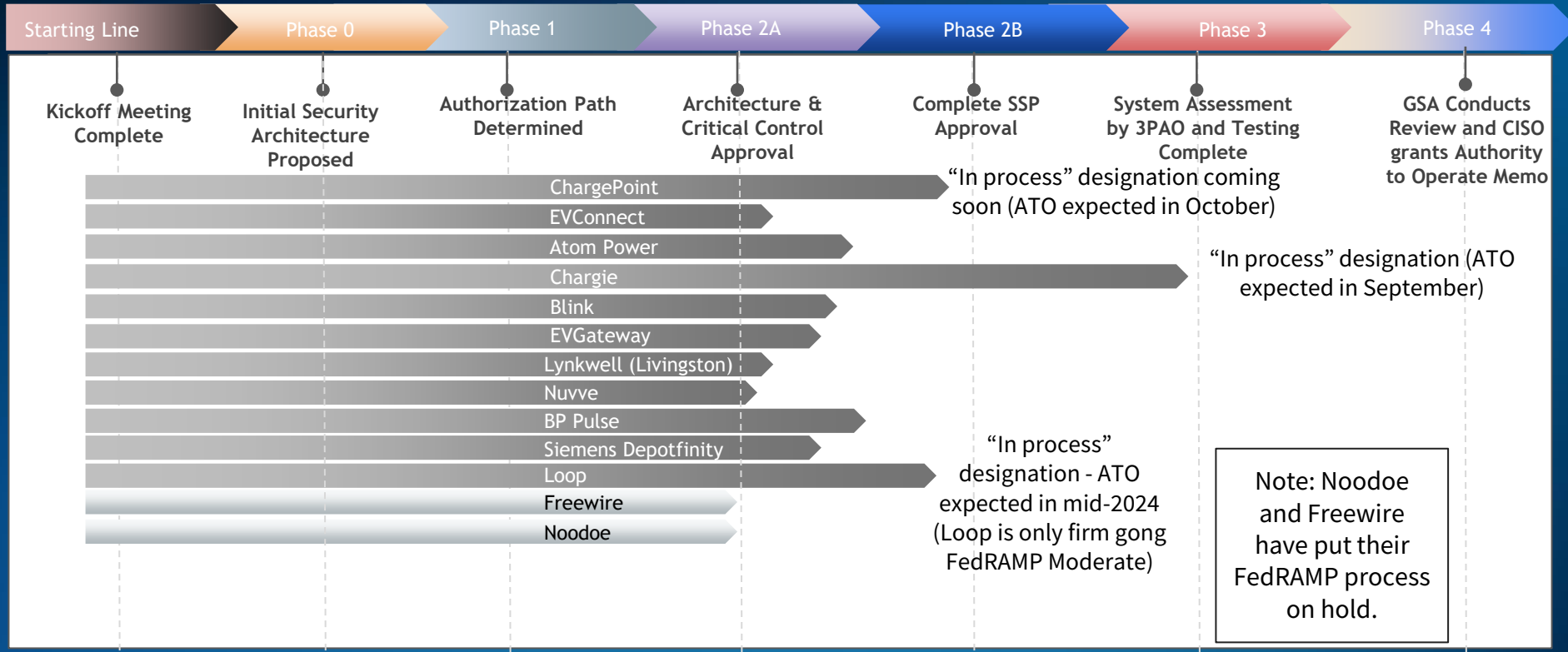
Check out 1PM ET Session, “Funding for EVSE” to Learn More!

GSA Fleet's Plans Moving Forward

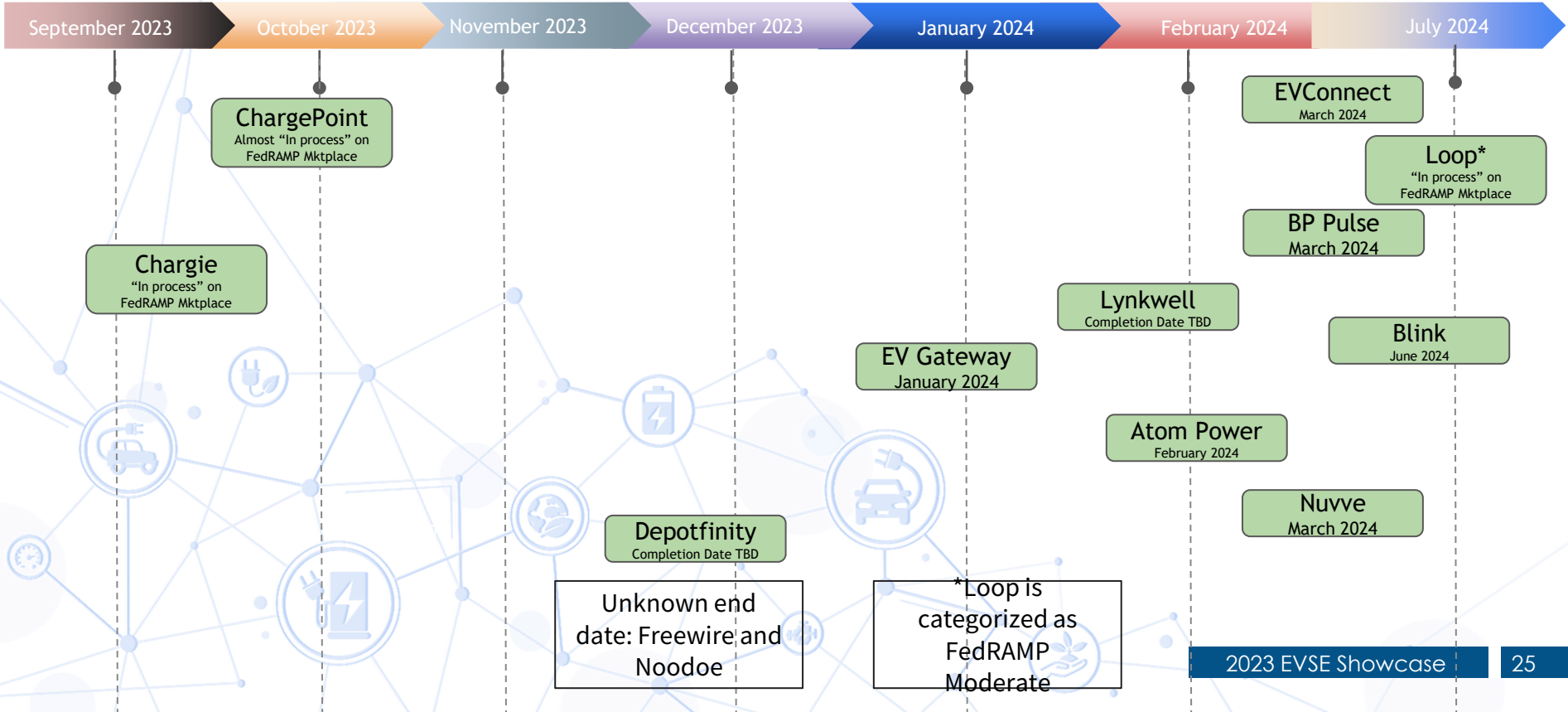
- ➔ Encouraging agencies to focus on infrastructure first and use GSA's contracting solutions
- ➔ Bringing on More ZEV Models to GSA's vehicle contracts
  - ◆ FY24 Light-duty vehicle awards projected for early October
- ➔ Ordering vehicles early, ordering BEVs/available models where infrastructure exists/will exist
- ➔ Potentially BPA open season in 2024/2025
- ➔ Shepherding EVSE Solutions through FedRAMP

Check out tomorrow's 1PM ET Session, "Cybersecurity for EVSE" to Learn More!

EVSE IT Security FedRAMP Progress as of 8/1/23



EVSE IT Security Estimated Completion Dates
(subject to change)



Resources

For questions on ZEVs, the fleet or buying charging infrastructure:

gsafleetafvteam@gsa.gov

For questions on EVSE install or project support contract:

pbs-evse-solutions@gsa.gov

GSA's "One-Stop Shop" for Fleet Electrification

Comprehensive information about GSA's ZEV and EVSE products and services, templates & more


GSA