

Statewide Electric Vehicle Infrastructure Strategy

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Roles

DBM - Fleet Electrification

DGS - Infrastructure at State-owned Facilities*

MDE/MEA - Funding programs, Technical Support

MDOT - Technical Support & Coordination

*Executive agencies, excludes USM and MDOT

DGS Supporting Fleet Electrification



DGS is supporting a *state-wide coordinated approach* to installing ZEV charging infrastructure in order to support an increasingly electric fleet.*

*Executive agencies, excludes USM and MDOT

DGS Supporting Fleet Electrification



Data Collection
& Analysis



Identifying Potential
EVs & Sites



Planning



Standardization



Legal Agreements



Installing EV Charging

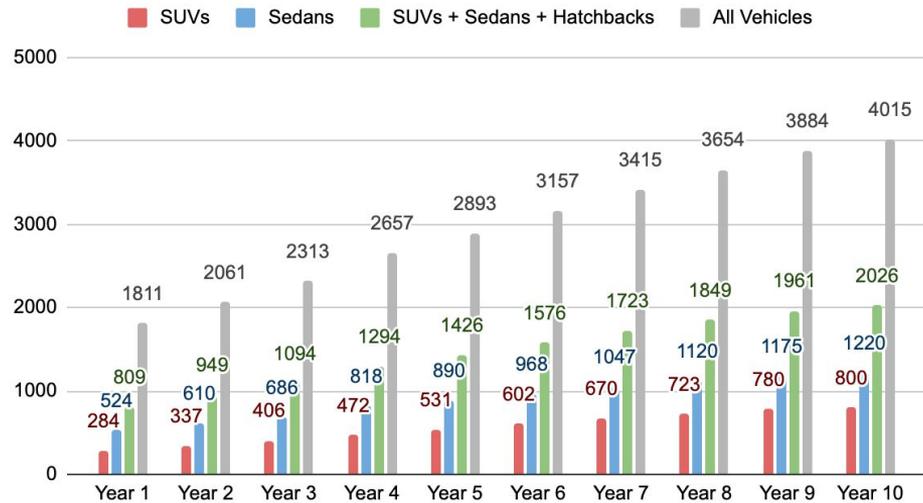
DGS Supporting Fleet Electrification



Fleet Data Survey

- Detailed data on 4,000 State fleet vehicles collected from 40 agencies
- Allows us to see where potential electrification may happen

Cumulative no. of High Mileage or Older Vehicles over the next 10 years:



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Agencies Represented in Data:

- Commerce
- Comptroller
- CPPDA
- DBM
- DGS
- DHCD
- DHS
- DoIT
- DJS
- DLLR
- DMIL
- DNR
- DPSCS
- DSP
- GOCPYVS
- GOV
- Legislative Services
- MDA
- MDE
- MDH
- MDOA
- MDP
- MDVA
- MEA
- MEMA
- MIA
- MIEMSS
- MLGCA
- MPT
- MSDE
- MTA
- MVA
- OAH
- OSPMD
- PSC
- PTAAB
- SDAT
- SOS
- Treasurer

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Tracking infrastructure:

- Existing
- Potential/Planned
- In Construction

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Installing Charging Stations at facilities under DGS Procurement Authority

Agency	Location	Street address	Status
DGS	100 Community Plaza	100 Community Plaza, Crownsville	Design
DGS	Essex-Rosedale DC/MSC	S 8914 Kelso Dr., Baltimore	Construction
DGS	John R. Hargrove DC/MSC	700 East Patapsco Ave, Baltimore	Design
DGS	Old Annapolis Post Office	9 Northwest St, Annapolis	Completed
DPSCS	Edward F. Borgerding DC/MSC	5800 Wabash Avenue	Construction
DPSCS	Reisterstown Office	6776 Reisterstown Road	Design
MDH	Eastern Shore Hospital	5262 Woods Road, Cambridge	Completed

At least 7 EV charging sites (PM'ed by DGS) are set to open by end of FY 2021. More in the works!

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MDH Eastern Shore Hospital Center

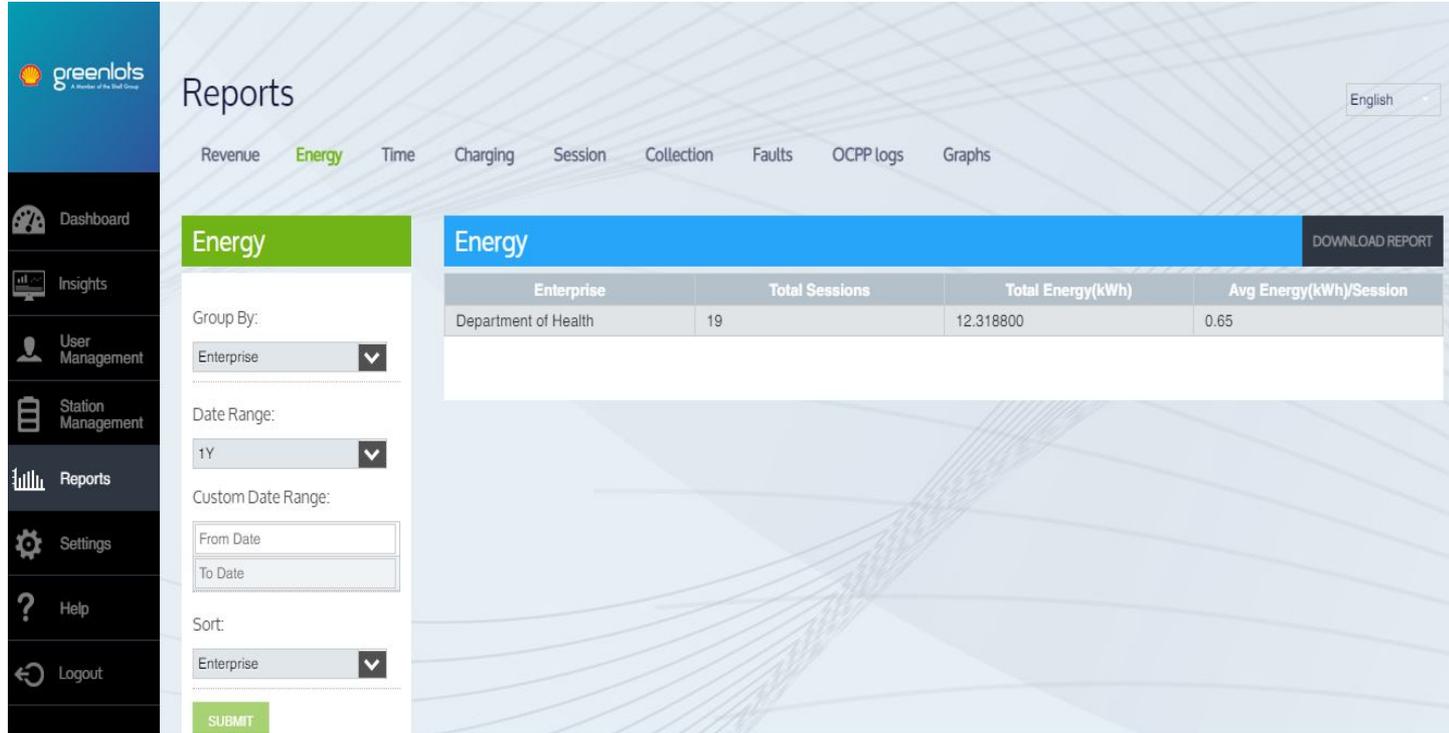
5262 Woods Road, Cambridge
2 level 2 dual charging stations
+ conduit for another



**NOW
OPEN
FOR USE!**

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Charging station vendors provide web-based dashboards to help track use and consumption.



The screenshot displays the Greenlots web-based dashboard. The left sidebar contains navigation options: Dashboard, Insights, User Management, Station Management, Reports (highlighted), Settings, Help, and Logout. The main content area is titled 'Reports' and includes a language dropdown set to 'English'. Below the title are tabs for Revenue, Energy (selected), Time, Charging, Session, Collection, Faults, OCPP logs, and Graphs. The 'Energy' report is displayed with a 'DOWNLOAD REPORT' button. The report includes a filter section with 'Group By' set to 'Enterprise', 'Date Range' set to '1Y', and 'Sort' set to 'Enterprise'. A 'SUBMIT' button is located below the filter section. The report table shows data for the Department of Health.

Enterprise	Total Sessions	Total Energy(kWh)	Avg Energy(kWh)/Session
Department of Health	19	12.318800	0.65

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Coming Soon!

Electric Vehicle Infrastructure at
Maryland State Facilities

Statewide EV Infrastructure Strategy & Guidance to Agencies



Office of Energy & Sustainability

Statewide EV Strategy Document

- Defines DGS Strategy to EV Infrastructure
- Provides Guidance to Agencies wishing to pursue EVs
- Standardizes Processes & Procedures



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Plus:

- Boilerplate EVCS Spec
- Template Legal Agreements
- Sample EV Use & Parking Policy

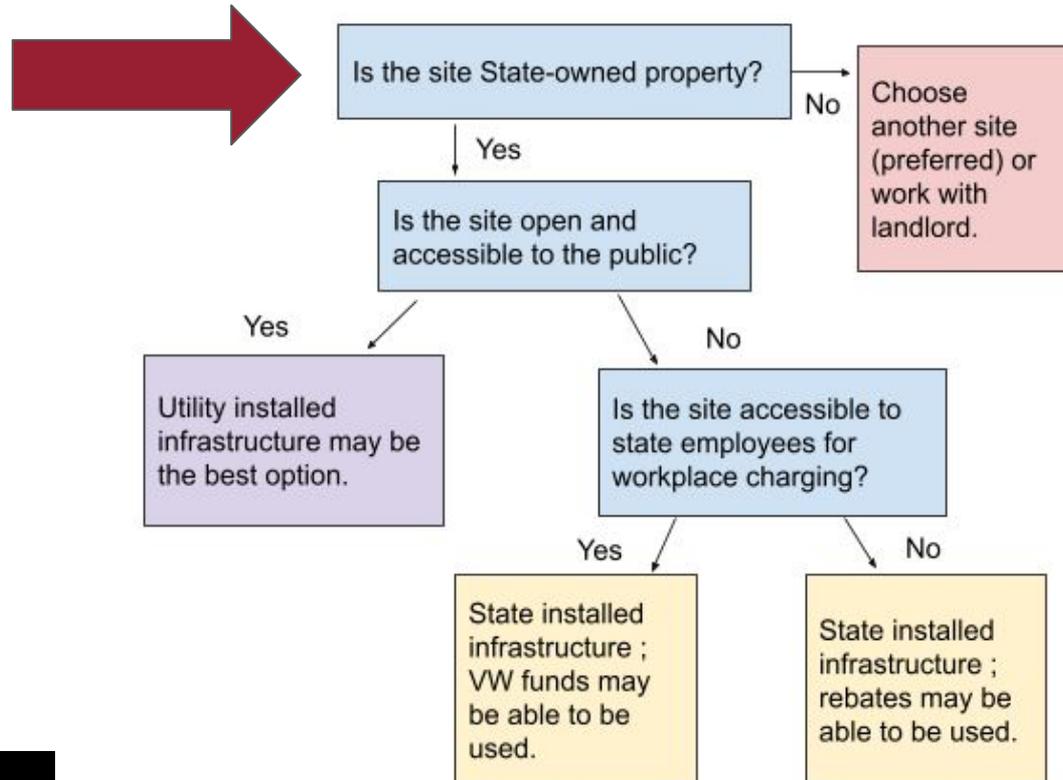
How Would An Agency* Pursue EVCS?

There are two different approaches to take:

Utility Installed infrastructure	State Installed infrastructure
<p>Through PSC pilot</p> <ul style="list-style-type: none">● BGE - EV Smart● Delmarva● PEPCO● Potomac Edison <div><p><i>No installation costs; charged for using (\$.18/kwh for level 2)</i></p></div>	<ol style="list-style-type: none">1. DGS Capital2. DGS Small Procurement3. Agency Managed <div><p><i>Upfront costs, then the cost of electricity to use; may be only option for certain sites (without public access); some funding options</i></p></div>

*Executive agencies, excludes USM and MDOT

How Would An Agency Pursue EVCS?



Challenges

Building a Statewide program -- currently without any dedicated staff or resources



Next Steps for Fleet Electrification

- DBM (with DGS & MDE input) to confirm next round of incoming EVs
- DGS to ramp up infrastructure to support those vehicles
- DGS will publish the Statewide EV Document this Spring
- Agencies - please loop DGS into your EV projects