

# VEH122: Advanced Vehicle Technology Equipment, Supplies and Services

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Contract Term	<ul> <li>Current Contract Term: October 1, 2025 – September 30, 2033</li> <li>Maximum End Date: No remaining extensions</li> <li>Extend Beyond Date: March 30, 2035 for performance and payment purposes, only.</li> </ul>
MMARS MA#	VEH1220000000000000
Quote Requirements	Quotes are required for purchasing. See the <b>Quote</b> Response and Requirements section for guidelines.
Vendor List	See <u>Vendor List and Information</u> for eligible vendors on this contract.
Updates	11/12/25 Vendor Updates



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#### **Contract Summary**

VEH122 Advanced Vehicle Technology Equipment, Supplies and Services: This is the Statewide Contract (SWC) for EV charging equipment and related services. VEH122 is the primary Statewide Contract for the acquisition of advanced vehicle and alternative transportation equipment, hardware, software, and services. The VEH122 Contract replaces VEH102 Advanced Vehicle Technology Equipment, Supplies and Services and includes options to traditional fossil fuel transportation-related systems.

Link to Master Blanket Purchase Order (MBPO) with Request for Response (RFR): Master Blanket Purchase Order (MBPO) with Request for Response (RFR)

#### **Contract Categories**

This contract includes four (4) categories of products/services listed as follows. A detailed list of product sub-categories located in <u>Appendix: Detailed Contract Categories</u>.

- Category 1: Electric Vehicle Supply Equipment (EVSE), Hardware, Software, and Ancillary Services
- Category 2: Idle Reduction Technology All Vehicle Categories; and Heavy-Duty Equipment
- Category 3: Alternative Fuel & Technology Conversions
- Category 4: Electric Vehicle Supply Equipment (EVSE) Operation and Maintenance

#### **Benefits and Cost Savings**

Statewide contracts are an easy way to obtain benefits for your organization by:

- Leveraging the Commonwealth's buying power
- Simplifying the solicitation process
- Providing contracting expertise
- Enhancing vendor relationships through proactive management and oversight
- Offering competitive pricing
- Partnering with a pool of qualified and experienced vendors
- Offering Prompt Pay Discount (PPD)

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- Improving the availability of environmentally preferable products
- Summarizing buyer needs in a Statement of Work can effectively allow for prices to be negotiated based on an identified volume.
- Vendors have client experience with a variety of local and national organizations

#### **Contract Exclusions and Related Statewide Contracts**

Related statewide contracts include:

- VEH110 Purchase of Light and Medium-Duty Vehicles
- VEH111 Heavy-Duty Vehicles, Road Maintenance and Construction Equipment
- VEH117 Fuel and EV Charging Card Services (VEH123 as of 11/15/25)

To see all of the Contract User Guides for Vehicles, Transportation and Road Maintenance, visit https://www.mass.gov/service-details/vehicles-transportation-and-road-maintenance.

#### Who Can Use the Contract

#### **Applicable Procurement Law**

Executive Branch Goods and Services: MGL c. 7, § 22; c. 30, § 51, § 52; 801 CMR 21.00;

Construction Materials and Services: G.L. c. 149, s. 44A; G.L. c. 30, § 39M;

Chapter 206 of the Acts of 2024; G.L. c. 7, § 22P;

Effective 02/18/2025 Chapter 239 of the Acts of 2024 replaces a section in c. 30B, G.L. c. 30B §23;

The following is a complete list of the types of organizations generally allowed to use Operational Service Division's (OSD's) Statewide Contracts (SWCs). Some SWCs may be open to additional organizations, and some are more restricted in usage.

- Cities, towns, districts, counties, and other political subdivisions
- Executive, Legislative, and Judicial Branches, including all departments and elected offices therein
- Independent public authorities, commissions, and quasi-public agencies
- Local public libraries, public school districts, and charter schools

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- Public hospitals owned by the Commonwealth of Massachusetts
- Public institutions of higher education
- Public purchasing cooperatives
- Non-profit, UFR-certified organizations that are doing business with the Commonwealth
- Other states and territories and their cities, towns, districts, counties, other political subdivisions, and public institutions of higher education without prior approval from the State Purchasing Agent
- Other entities when designated in writing by the State Purchasing Agent

#### **Pricing Options**

Project pricing: Costs under VEH122 must be determined through project-based compensation.

- Eligible Entities will determine the format in which quotations for their specific project will be collected. Vendors are expected to be competitive with each project and must provide a detailed and transparent budget related to the scope of services to be completed. Eligible Entities and awarded VEH122 vendors may negotiate project rates as part of the quote process.
- Engagements that are limited in scope, time and value might be best quoted on hourly rate compensation structure.

Invoicing: All bills/invoices must minimally include as appropriate:

- Commodity based:
  - Order name
  - Quantity
  - Current MSRP
  - o % Discount
  - o Price
- Project based:
  - o Assignment name
  - o Hours billed/invoiced and Statewide Contract hourly rate or portion of project billed

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- o Hourly rate: Identify account manager or another vendor agent and applicable hourly rate
- o Identify portion of project billed and balance remaining, but not an average rate
- Supporting documents must accompany billing/invoicing received by an engaging entity.
- Totals should be reviewed for correctness by engaging entity prior to approval.
- Total billed/invoiced must meet the Commonwealth's requirements if audited.

Payments: The Hiring Entity may require work be paid in increments, as agreed upon, deliverables are completed per the Statement of Work. All billing must be addressed to and with the Hiring Entities providing a breakdown of costs as required.

**Note:** The price files and vendor catalogs are accessible through public view in COMMBUYS; therefore, buyers can access the price files and vendor catalogs without needing to sign into a COMMBUYS account.

This is a solution-based contract; thus, the type of services and scope of work will be generated on a case-by-case basis in a sub-agreement as the SOW. Contract users may use the posted SOW or their department's equivalent version before starting any project with a vendor. A copy of a standard SOW can be located in the "Attachments" tab of the Master MBPO for VEH122 in COMMBUYS. The Hiring Entity may require business references, as deemed appropriate.

**Note:** Product pricing may be found via the <u>vendor information</u> page, where links to all the vendors' MBPOs are provided and pricing is located..

#### **Quote Response and Requirements**

Contract users should always reference VEH122 when contacting vendors to ensure they are receiving contract pricing. Work should be awarded based on best value.



#### **Purchase Options**

- Purchases made through this contract will be direct, outright purchases. All elements of the
  project's creation through the use of Commonwealth funds are owned by the Commonwealth
  except where prior ownership has been established. Commonwealth departments should be
  made aware of such exceptions.
- If you need an electrician to work with your agency or municipality, please refer to the list of TRD01 Electrician Vendors located in the <u>Master Contract Record file</u>. These electricians are experienced with charging station installation and equipment.
- Please note changes to the regulations surrounding the purchase and/or installation of EVs and EV charging equipment listed in the Construction Requirements of this document.
- Quote Solicitation: Buyers can solicit quotes from multiple awarded vendors (see the <u>Vendor MPBO Listing</u>), and place orders through COMMBUYS. A solicitation-enabled contract allows the buyer to solicit quotes from vendors who have Master Blanket Purchase Orders (MBPOs) or Statewide Contracts in COMMBUYS. The buyers can create a solicitation-enabled bid using a release requisition, converting the requisition to a bid, and then requesting quotes from eligible vendors.

See the <u>How to Request Quotes from Vendors on Statewide Contracts</u> job aid for more details.

**Note:** MMARS and COMMBUYS do not interface. Payment request and invoice must be reported in both MMARS and COMMBUYS.

# **Extend Beyond (Performance and Payment That Goes Beyond Contract End Date)**

The extend beyond period is primarily used to aid the transition between an expiring contract and its replacement by allowing time for new agreements to be established with newly awarded vendors.

For extend beyond, the following stipulations are in place:



- For Charging-as-a-Service (CaaS) agreements, no written agreement shall extend more than five (5) years (September 30, 2038) beyond the final termination date of this Statewide Contract.
- Outside of CaaS, Buyers **cannot** enter into any written agreement that will go more than eighteen (18) months (March 30, 2035) beyond the final termination date of this Statewide Contract. Existing services may be completed and payments made during this period.
- No new agreements, including leases, rentals, or service contracts, may be made after the contract's expiration (September 30, 2033).
- If during the life of the contract, OSD and/or the SST deem it necessary to add vendors to VEH122, the SST may use an open enrollment period to obtain quotes from additional bidders.

### **Setting Up a COMMBUYS Account**

COMMBUYS is the Commonwealth of Massachusetts' official e-procurement platform, serving as a central marketplace for state agencies to procure goods and services connecting government buyers and businesses. It aims to streamline the purchasing process, ensuring transparency, efficiency, and accessibility in the procurement process.

While COMMBUYS use is not mandated for Non-Executive Agencies, it is highly recommended to streamline the procurement process and make informed purchasing choices. Eligible entities should follow their internal guidelines for COMMBUYS use.

For Executive Agencies, COMMBUYS is required. Per 801 CMR 21.00, Executive Agencies must use established statewide contracts (SWCs) for the purchase of products and services. To set up a COMMBUYS buyer account or to update an existing agency account, the buyers must contact the COMMBUYS Help Desk at: (888)-627-8283 or OSDhelpdesk@mass.gov.

# Finding Contract Documents (Including CUG, RFR, Specifications, and Other Attachments)

Buyers can view contract documents on COMMBUYS without requiring a COMMBUYS account or logging in.

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To find contract documents in COMMBUYS, follow these steps:

- 1. On the <u>COMMBUYS</u> home page, enter **VEH122** in the search tool and select **Blankets** from the drop-down list.
- 2. Click the Search icon. The related Master Blanket Purchase Orders (MBPOs) information opens in a table format.
- 3. To view the associated contract documents, under the **Blanket** # column, click on the applicable Purchase Order (PO) link. MBPO opens for the selected PO and the attachments can be found in the **Agency Attachments** or **Vendor Attachments** section.
- 4. All standard contract documents are within the Master Contract Record. Access them directly by clicking this link: Master Blanket Purchase Order (MBPO).

#### **Finding Vendor-Specific Documents**

To find vendor-specific documents, see the links to the individual vendor MBPOs on the <u>Vendor Information</u> page, and follow these steps:

- 1. On the <u>Vendor Information</u> page, under the **Master Blanket Purchase Order #** Column, click on the applicable Purchase Order (PO) link. The Master Blanket Purchase Order (MBPO) opens for the selected PO.
- 2. On the MBPO, scroll down to the **Vendor Attachments** section to find the vendor-specific documents.
- 3. To view, click on the desired document link.

### Statement of Work (SOW) Requirements

The Buyers must complete a detailed SOW or Memorandum of Understanding (MOU) when soliciting VEH122 quotes. Buyers are encouraged to use the SOW template in the <u>Master Contract Record</u> <u>MBPO</u> under the **Agency Attachments** section OR your agency/department equivalent.

The following are examples of required information on the SOW (your agency may require more details):

Scope of services

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- Deliverables dates
- Location of service
- Detailed budget
- Estimated total costs
- Number of staff
- Rate(s) per hour

#### **Construction and Construction-Related Labor Requirements**

As of February 19, 2025, both state entities and municipalities have a path to procure the installation of EV charging infrastructure that **is not** subject to the construction procurement requirements of G.L. c. 149, § 44A(2)(B) and G.L. c. 30, §39M. These changes will enable both state agencies and municipalities to obtain EVs and EV charging equipment in a single or combined procurement. Prior to this regulation change, procurement of EV infrastructure components was considered installation under the construction statutes.

The OIG and OSD have released guidance highlighting the recent changes to G.L. c. 30B law noting that it will allow buyers to control the timing of the purchase, make use of available funding (including grant funding), and will streamline the process.

- What the above means is, the construction thresholds (\$50,000 cap for labor & supplies/materials) do not apply to the purchase and installation of EVs and EV charging equipment. An eligible entity may purchase and install charging equipment without having to consider the construction thresholds. This only applies to the purchase and installation of EVs and EV charging equipment projects. For all other construction-related projects or projects unrelated to EV or EV charging equipment, OSD recommends you consult your legal counsel.
  OSD does not provide guidance on Construction Law.
- For further information about the public construction bidding laws, please contact the Attorney General's Office Bid Unit by email at: AGOBidUnit@mass.gov. Visit the Attorney

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General's <u>Public Construction web page</u> to learn more about Public Bidding Laws. Questions around Construction Law must be directed to the Eligible Entity's legal counsel.

• In instances where Statewide Contract VEH122 is used for services in excess of \$25,000, MGL c. 149, s. 29, payment bonds are required from the selected Contractor. It is the responsibility of the eligible entity to enforce this requirement when soliciting quotes.

### **Prevailing Wage Law Requirements**

For prevailing wage requirements, please see the following guidelines:

Contractors must comply with the Prevailing Wage Law, as administered by the <u>Massachusetts</u> <u>Department of Labor Standards</u>.

- Massachusetts prevailing wage laws require that covered employees on public works projects be paid a minimum hourly rate set by the Department of Labor Standards (DLS) and are applicable to both union and non-union employers and employees.
- All employees of Contractors performing work covered by this contract must be paid at least the prevailing wage rates for work performed in or on public buildings or public works.
- Buyers must request a prevailing wage schedule from the <u>Department of Labor Standards</u>
   (DLS) online or by calling the DLS Prevailing Wage Program at: (617) 626-6953.
- On public works projects, wages listed on the wage schedule must be paid to all employees, regardless of whether they work for the prime contractor, a sub-bidder, or any subcontractor.
- The wage schedule applies to all project phases, including final cleanup. Contractors solely responsible for final cleanup must adhere to the wage schedule.
- To ensure apprentices are paid at the lower apprentice rates in Massachusetts, they must be registered with the Massachusetts Division of Apprentice Standards (DAS). All apprentices must carry their apprentice ID during work hours. If a worker is not registered with DAS, they must be paid the "total rate" listed on the wage schedule regardless of experience or skill level.
- Pursuant to M.G.L. Ch 149 § 27B, all contractors and subcontractors must submit accurate weekly payroll records directly to the Eligible Entity. Non-compliance can lead to criminal

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- charges or civil penalties. Non-compliance with certified payroll record requirements may lead to suspension or termination of eligibility for participation in this statewide contract.
- Chapter 149 § 27B requires certified payroll records to include, for each employee, their name, address, occupational classification, hours worked, and wages paid. In addition to the information provided, a copy of each apprentice's ID card is required. Weekly payroll records should be reviewed prior to paying an invoice.
- All workers on contracts exceeding \$10,000 must complete a minimum 10-hour Occupational Safety and Health Administration-approved (OSHA-approved) construction safety and health course. Contractors must submit documentation proving successful completion of OSHA 10hour training along with the first certified payroll record for each worker listed. Example of certified payroll record (report form): <a href="https://www.mass.gov/doc/weekly-certified-payroll-report/download">https://www.mass.gov/doc/weekly-certified-payroll-report/download</a>.
- Chapter 149, § 27B mandates that contractors and subcontractors submit a statement of compliance, including a certified payroll, to the awarding authority within 15 days of project completion.
- All contracts by a state agency or state-assisted contracts for design, construction, reconstruction, installation, demolition, maintenance, or repair must contain Workforce Participation Goals for minorities and women. This is required by M.G.L. c. 149, § 44A(2)(G).
- The Office of the Attorney General's Fair Labor Division is responsible for enforcing the prevailing wage laws. Visit <a href="https://www.mass.gov/prevailing-wage-enforcement">www.mass.gov/prevailing-wage-enforcement</a> for more information.

#### **Labor Hours**

Business Hours (excluding holidays) are defined as Monday through Friday 7:00 a.m. to 5:00 p.m. Non-Business Hours are defined as periods outside of Business Hours. **Note:** Many state facilities operate continuously (24/7).



#### **Apprentice Labor Rates**

Bidders may only include apprentice labor rates if they are participating in the Commonwealth's Approved Apprentice Program and can provide the required documentation. See <u>Information for apprentices</u> to learn more.

The Massachusetts prevailing wage laws require that covered employees on public works projects be paid a minimum hourly rate set by the Department of Labor Standards (DLS). The prevailing wage laws apply to both union and non-union employers and employees. The buyer has a legal obligation to request a prevailing wage schedule from the Department of Labor Standards (DLS) at <a href="https://www.mass.gov/dols">www.mass.gov/dols</a>. To get the proper rates for your region/job, you must request a determination. Questions regarding the Prevailing Wage Law may be answered by accessing the DLS website or by calling the DLS Prevailing Wage Program at (617) 626-6953. If prevailing wage is required, make sure to include this information in your quotes or bids so vendors know to include prevailing wage.

In addition, all contracts by a state agency or state-assisted contracts for design, construction, reconstruction, installation, demolition, maintenance, or repair must contain Workforce Participation Goals for minorities and women. This is required by M.G.L. c. 149, § 44A(2)(G). A "state-assisted contract" is a construction project undertaken by a political subdivision of the commonwealth or two or more subdivisions thereof for planning, acquisition, design, construction, demolition, installation, repair, or maintenance whose costs are paid for, reimbursed, grant funded, or otherwise supported, in whole or in part, by the commonwealth. An affected awarding authority's bid documents must include a reference to the specific goals that will be contained in the contract. The contract must also include the processes and procedures to ensure compliance with the Workforce Participation Goals, including reporting and enforcement provisions.

The Office of the Attorney General's Fair Labor Division is responsible for enforcing the prevailing wage laws. Visit www.mass.gov/prevailing-wage-enforcement for more information.

### **Supplier Diversity Program (SDP) Requirements**

Please see the following guidelines:

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- Vendor SDP commitment percentages can be found on the vendor list table.
- Executive Departments should use diverse and small businesses to the extent possible based on contract terms, <u>Supplier Diversity Office (SDO)</u>, and departmental policies, laws, and regulations.
- In cases where all other factors are equal, and particularly when adhering to a best value approach, the department will favor the vendor with a stronger SDP commitment
- The SBPP applies to small procurements (under \$250,000 annually), while the SDP applies to large procurements (over \$250,000 annually). Executive Departments must consider these requirements when soliciting quotes or issuing statements of work (SOWs).
- Operational Services Division (OSD) provides a list of SDP businesses through the <u>Statewide</u> <u>Contract Index</u>. See the <u>Programs (SDO and SBPP)</u> tab on the index (scroll to view the tab).
- For more information, see <u>Best Value Evaluation of SDP Plan Forms: A Guide for Strategic Sourcing Teams</u>.

#### **Additional Discounts**

Vendors in this statewide contract offer the following discounts, which can vary for each vendor (vendor discounts are detailed in the <u>vendor list</u> table and the price files within each vendor's Master Blanket Purchase Order [MBPO] or Master Contract Record MBPO):

- **Prompt Pay Discount:** A percentage discount given to the buyer if the invoice is paid within a specified time, in accordance with the <a href="Commonwealth's Bill Paying Policy">Commonwealth's Bill Paying Policy</a>.
- **Volume Discount:** A discount may be provided to the buyer if a certain volume of product or service is purchased.

#### **Emergency Services**

Vendors on this contract may be required to provide products or services in cases of statewide emergencies. ML - 801 CMR 21 defines emergency for procurement purposes. Visit the Emergency Response Supplies, Services and Equipment Contact Information for Statewide Contracts list for emergency services related to this contract.

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#### **Vendor Performance**

Vendors' performance is measured by a number of factors to include:

- Provide actionable feedback on vendors for this contract to optimize performance. Click
   <u>Procurated</u> for input. On the Procurated website page, select an OSD contract, click **Select**,
   and then click **Provide a Review** for the applicable vendor listed.
- Buyers are encouraged to reach out to the Category Manager <u>kelly.thompsonclark@mass.gov</u>
  if vendors are not meeting their contractual obligations and buyers may be surveyed for
  vendor performance feedback.
- Contractors will be evaluated on their current performance and may be asked to work with the Commonwealth towards improvement.
  - If Contractor performance is unacceptable but can be corrected, the Contractor will be given the opportunity to develop and implement a corrective action plan, working collaboratively with OSD and the relevant purchasing entities.
  - o If the Contractor's performance is inadequate or breaches the RFR terms, including attachments and agreements, the OSD Category Manager may issue a warning, add vendors, implement a corrective action plan, or suspend/terminate the contract.
- Contractors must meet all contractual requirements throughout the life of the contract, including requirements for timely and accurate report submission, to remain in good standing under the contract.

#### **General Procurement Guidelines and Best Practices**

For general procurement guidelines and best practices, follow these recommendations:

- Buyers should inform vendors to reference Contract **VEH122** on all their quotes and invoices.
- No prepayment should be made for products not yet delivered or services not yet rendered.
- No sales tax should be applied to invoices.
- No fees or surcharges (including traveling, fuel, delivery) should be applied to invoices.
- Special order fees must be agreed upon by both parties upfront.



- Payments for products or services provided must be paid within 45 days per Massachusetts Bill Payment Policy, or sooner if applying Prompt Payment Discount.
- Buyers are not required to sign additional agreements with vendors that conflict with the Request for Response (RFR) Terms and Conditions (contact Category Manager for guidance on this). kelly.thompsonclark@mass.gov
- Vendors must notify buyers of product substitutions.

#### Adding a Product

To add a product to the list of eligible products sold under this contract, buyers must contact their <u>Category Manager</u> for approval. The new products requested must comply with the established specifications and scope of the contract.

If you need an electrician to work with your agency or municipality, please refer to the list of TRD01 Electrician Vendors located in the <u>Conversion Vendor</u> file. These electricians are experienced with charging station installation and equipment.

#### **Environmentally Preferable Products and Services (EPPs)**

This contract is considered an all-EPP contract, meaning all products offered are environmentally preferable. The equipment and aftermarket conversion technologies available under this contract support the development of electric vehicle (EV) infrastructure and promote cleaner transportation solutions.

Appliance Energy and Water Efficiency Standards: All ESVE's sold on this contract must comply with the Massachusetts Appliance Energy and Water Efficiency Standards. Effective January 1, 2023, products in the covered categories may only be sold or installed in Massachusetts if they are certified by their manufacturer as compliant with 225 CMR 9.00. To ensure compliance, check DOER's Compliance for Sellers and Installers page for detailed instructions for how to comply.

**After-Market Conversion Technologies:** These technologies modify vehicles or engines to operate, or be supplemented by, alternative fuels or propulsion systems beyond their original design. Product offered in this category must be certified by one of the following: EPA Clean Alternative Fuel



Conversion Systems, California Air Resources Board (CARB), a nationally recognized testing laboratory, or manufacturer certification that includes a warranty protection statement.

**Idle Reduction:** Idle reduction systems help minimize fuel consumption and emissions during vehicle idling. These systems must be certified by a nationally recognized third-party organization.

**Learn More:** Explore the <u>Environmentally Preferable Products (EPP) Procurement Program</u> and discover detailed guidance in the <u>EPP Products and Services Guide</u>, and the EPP Program's Alternative Fuel Vehicle <u>webpage</u>.

#### **Instructions for MMARS Users**

When placing orders with a contractor, Massachusetts Management Accounting and Reporting System (MMARS) users **must** reference the contract ID number **VEH122** in the applicable field in MMARS. For MMARS technical support and job aids, contact the Comptroller Help and Support Desk at 617-973-2468 or at Comptroller.Info@mass.gov.

# **Quick Tips & FAQs to Inform your Charging Station Planning and Decision- Making**

Electric vehicle charging can seem complicated at first glance, here are some commonly used terms associated with the charging station industry:

<u>AC – Alternating Current</u>: This type of charging is useful for charging electric vehicles at different speeds through an alternating current. Electric vehicle charging comes as AC. With an AC charger, the power is converted to DC by the vehicle itself. This type of charging is economical but takes longer.

<u>CCS – Combined Charging System</u>: Offers both AC and DC charging on the same port and provides power of up to 350kW. This is the industry standard method for public charging stations and also home charging set-ups. It may also be called a "combo plug".

<u>CPO – Charging Point Manager</u>: This refers to a type of software responsible for smart charging, i.e., allocating power to different electric vehicles to make sure that each one charges as quickly as possible. It relies on customizable algorithms to work efficiently.

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<u>DC – Direct Current:</u> DC is one of the two types of 'fuel' that can be used to power electric vehicles. Unlike AC charging, converted into DC power by the car, DC charging can convert the AC power into DC right in the plug itself. DC chargers are larger, more expensive, but faster. It will be more common at public charging stations, such as at a rest stop charge point.

<u>EV – Electric Vehicle</u>: EVs are equipped with a battery-powered motor instead of a traditional internal combustion engine. Contrary to PHEVs and HEVs, EVs do not have a gasoline tank and output zero tailpipe emissions. They are associated with a lower carbon footprint than traditional vehicle types.

<u>EVSE</u> – <u>Electric Vehicle Supply Equipment</u>: EVSE refers to equipment that exists to supply electrical energy for charging electric vehicles. It can be residential (i.e.: at-home charger) or commercial (i.e.: chargers at malls, workplaces, rest stops, etc.).

<u>HEV – Hybrid Electric Vehicle</u>: HEVs use both electric batteries and gasoline. More often than not, the electric motor assists the internal combustion engine (ICE), during acceleration, for instance. Note that HEVs cannot be plugged into regular EV charging stations. Batteries replenish themselves via the energy generated by the combustion engine or via regenerative braking.

<u>PHEV – Plug-in Hybrid Electric Vehicle:</u> PHEVs rely on both electric batteries as well as gasoline to power an ICE. These vehicles run on electrical power until the battery is depleted and automatically switch to the ICE. Charging hybrids can also be plugged in to charge their engine.

<u>ZEV – Zero-Emission Vehicle</u>: Zero exhaust emissions and 98% cleaner than the average new model year vehicles; includes EVs and hydrogen fuel vehicles.

There are three EV charging levels. There are differences between each charging level. However, as a general rule, the higher the Level, the higher the power output from the charger and the faster it can charge.

<u>Level 1 Charger</u>: Utilizes the slowest EV charger available, which provides about 3.11 miles of range per hour of charging; up to 24 hours to fully charge a battery (may take longer depending on an empty battery).



<u>Level 2 Charger:</u> Much faster than Level 1 and can come with added functionality such as RFID cards, load balancing and networking. Approximately 20 to 30 miles of range per hour of charging; overnight typically produces a full battery charge.

<u>Level 3 Charger</u>: Also called DC fast charging and significantly faster than Level 2. Up to 20 miles of range per minute; full battery charges in under an hour.



#### TOP 10 THINGS TO THINK ABOUT AS YOU PLAN YOUR CHARGING STATION PROJECT

- 1) Involve facilities, DPW and agency/municipality management when discussing your charging needs and allowances.
- 2) Are you working with a local utility?
- 3) Funding & finance What is your current budget for charging stations?
  - a. How much is available for you to spend in the first year?
  - b. Funding approval for future fiscal years?
  - c. What warranties come with your system? What's covered under 1,3, 4 and 5-year plans?
  - d. Payment systems or agreements with station vendors?
  - e. Are you using any grants or incentive programs? How do the grants & incentives work?
    - i. Reimbursed after you've completed project? Incentives paying for entire project or only a portion?
- 4) How many EVs does your community or agency have on record? Fleet size and types of vehicles.
  - a. What routes do your vehicles take on a daily basis?
  - b. Where do vehicles stop frequently?
  - c. Will the public have access to your chargers?
- 5) Do you have short & long term plans? Future vehicle replacements or additions?
- 6) Plot the electricity use and time requirements for each EV in your fleet.
  - a. Calculate: Average miles driven per vehicle, per day.
  - b. Average length of time to recharge vehicle using level 1, level 2, and level 3 stations.
  - c. When will vehicles be charged (business hours or overnight)? Knowing this helps gauge usage and availability.
- 7) Agency or municipality site locations? Do you foresee office relocations in next 3-5 years?
  - a. Opportunities for infrastructure sharing within your buildings or with smaller abutting communities?
  - b. Avoid hazards: extreme climate exposure; pooled/irrigated water streams; pedestrian traffic; areas where cars could collide with stations.
  - c. Always consider: accessibility; signage; and vandalism strategies.
- 8) Are there public stations that can be used to fulfill agency needs?
- 9) What level charging can your infrastructure handle vs. what you think you want?
- 10) Does your agency require more than one charging station?
  - a. Dual port stations can charge two vehicles at a time for just a little more money than a single port.
  - b. Multiple stations in close proximity (within 100 feet)? Different for ADA compliant sites.

# GET READY TO PLUG IN & GET CHARGED UP!

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# **Executive Office of Technology Services and Security (EOTSS) Product and Services Requirements**

All network software and other related products and services are subject to EOTSS' requirements. Other eligible entities may require additional and/or alternate requirements: the contract user and contractor are strongly advised to review and understand such requirements at the beginning of the process.

### **Accessibility Physical Appearances and Design**

The EVSE pedestals must be a minimum of four (4) feet in height and provide adequate visibility for EVSE users. Consideration should be made for how the EVSE will be used in conjunction with bollards to protect the unit if it is not out of the way of traffic. The EVSE must be accessible to disabled persons and compliant with 521 CMR and the American with Disabilities Act (ADA). Installation in handicapped spaces must allow for adequate space (a minimum of 36 inches clearance), have a maximum height of 48 inches and allow for either forward wheelchair approach (48 inches) or side approach (54 inches).



### **Vendor List and Information**

Vendor	Master Blanket Purchase Order (Last 5 digits of MBPO)	Contact Person	Phone #	Email	Categ- ories	PPD	SDP Percentage
Solicitation Enabled (Used for soliciting multiple quotes)	PO-26-1080-OSD03-SRC3- 37154	Kelly Thompson Clark	617-720-3184	Kelly.thompsonclark@mass.gov	All	N/A	N/A
Master Contract Record (MCR)	PO-26-1080-OSD03-SRC3- 37071	Kelly Thompson Clark	617-720-3184	kelly.thompsonclark@mass.gov	All	N/A	N/A
All-Pro Electric LLC	<u>37070</u>	Mike Harrington	978-469-0100	Mikeh@allproelectric.com	1 & 4	1.0%=10 days; 0.5%=15 days; 0.5%=20 days; 0.25%= 30 days	1%
Anderson Motors Inc.	<u>37529</u>	Jim Anderson	401-434-5900	Jim@andersonmotors.com	1 & 4	1.0%=10 days; 0.50%; 0.25%=20 days; 0%=30 days	1%
Better Together Brain Trust LLC	<u>37218</u>	Brittany Haringa	774-462-8631	Brittany@BT2Energy.com	1 & 4	0%	1.50%
District Fleet, LLC	<u>37091</u>	Joe Candelmo	610-295-7196	Joe@districtfleet.com	1 & 4	0.5% = 10-30 days	10%
Emmaty, Inc.	<u>37280</u>	Madeline Cabrera	508-320-4243	Madeline@emmaty.com	1	1.5%= 10 days;1.0%=15 days; 0.5% days=20 days; 0%=30 days	5%
Energy Conservation, Inc.	<u>37472</u>	Chris Collins	617-504-6718	Chris@eci-ne.com	1 & 4	5.0%=10 days; 2.0% =15 days; 0% 20-10 days	20%
EV Hub, Inc. dba Alwayz	<u>37367</u>	Scott Nathan	781-866-9542	Scott@alwayz.us	4	3.0%=10 days; 2.0%=15 days; 1.0 %=20 days; 0%=30 days	5%
EV4All Inc	<u>37503</u>	Michelle Zhang	323-435-2284	Ev4all@wv4all.net	1 & 4	4.0%=10 days; 3.0%=15 days; 2.0 %=20 days; 0%=30 days	30%
Fleet Electrical Service	<u>37366</u>	Jeremy Martin	774-239-8592	Jmartin@fleetelectric.com	2	1.0%=10 days; 0%=15-30 days	1%

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Fulcrum Energy Solutions, Inc.	<u>37240</u>	Michelle Exaros	445-200-7356	Bids@fulcrumenergy.com	1	2.0%=10 days; 1.5%=15 days; 1.0 %=20 days; 0%=30 days	5%
Gateway International 360, LLC	<u>37151</u>	Harper Zarker	609-458-1806	Harper@gatewayintl360.com	1, 3 & 4	2.0%=10 days; 0%=15-30 days	40%
Graybar Electric Company Inc.	37504	Michael Teahan	617-721-4041	Michael.teahan@graybar.com	1	1.0%=10 days	1%
Guardian Energy Management Solutions, LLC	<u>37149</u>	Domenic Armano	603-361-0979	darmano@guardian- energy.com	1 & 4	3.0%=10 days; 2.5%=15 days; 2.25 %=20 days; 2.0%=30 days	5%
Highland Electric Fleets, Inc.	<u>37241</u>	Ben Sonnega	74-377-1865	Ben.sonnega@highlandfleet.co m	1	0.5% 10-30 days	15%
KT&T Distributors, Inc.	<u>37217</u>	Kevin Porter	401-465-7397	Kevin@KTTDistributors.com	1 & 4	2.0%=10 days; 2.0%=15 days; 1.0 %=20 days;1.0 %=30 days	2%
Matcha EV	<u>37502</u>	Chris Kluesener	617-286-2355	Chris@matchaelectric.com	1 & 4	5.0%=10 days; 4.0%=15 days; 3.0 %=20 days;2.0%=30 days	20%
MoveEV, Inc.	<u>37150</u>	Brant Carter	508-733-5046	Bcarter@moveev.com	1 & 4	4.0%=10 days; 3.0%=15 days; 2.0 %=20 days; 2.0%=30 days	1%
Paired Power	<u>37682</u>	Steve Dusse	669-877-2930	Steve.dusse@pairedpower.com	1 & 4	2.0 =10 days; 1.5%=15 days; 1.0%=20 days; 0%=30 days	1%

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PowerFlex Systems LLC	<u>37525</u>	Frances Palmer	650-469-3392	Frances.palmer@powerflex.co <u>m</u>	1 & 4	0.30%=10 days; 0.25%=15 days; 0.20 %=20 days; 0.15%=30 days	25%
Pro Management Design and Construction (PPMDC)	<u>37717</u>	Carl Walker	508-944-6115	CsWalker345@gmail.com	1	5.0%=10 days; 4.0%=15 days; 3.0%=20 days; 2.0%=30 days	2%
ReVision Energy Inc	<u>37272</u>	Barry Woods	503-504-6492	Barryw@revisionemergy.com	1	3.0%=10 days; 2.0%=15 days; 1.0 %=20 days; 0%=30 days	1%
Revolt Charging Inc.	37499	Anel Bellevue	617-320-4494	Abellevue@revolt-charging.com	1 &4	5.0%=10 days; 4.0%=15 days; 3.0 %=20 days; 2.0%=30 days	15%
Revvit Inc	<u>37344</u>	Ross Bloom	781-789-6404	Ross@revvit.net	1	1.5%=10 days;1.5%=15 days; 1.0 %=20 days; 1.0%=30 days	1.5%
Rivermoor Energy	<u>37524</u>	John Tourtelotte	617-655-6002	John@rivermoorenergy.com	1 & 4	0.25%=10 days; 0%=15-30 days	5%
SuryaTech EV Power LLC	<u>37680</u>	Mayur Kamalakar	339-244-9464	Mayur.kamalakar@suryatechpo wer.com	1 & 4	5.0%=10 days; 3.0%=15 days; 2.0%=20 days; 0%=30 days	30%
Universal Electric	<u>37152</u>	Mike Quinn	413-788-9473	Mquinn@uecma.com	1 & 4	1.0%= 10 - 30 days	40%
Verdek	<u>37528</u>	Margaret Paccione	203-421-6477	admin@verdek.com	1 & 4	1.0%= 10 days	2%
Viatec	37214	Zach Gervin	650-384-9007	ZachG@viatec.us	2	2.0% = 10 days	1%
Voltrek LLC	<u>37343</u>	Christine Minaya	978-529-3848	Cminaya@voltrek.com	1 & 4	1.0% = 10 days	2%

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<sup>\*</sup>Note that COMMBUYS is the official system of record for vendor contact information.

<sup>\*\*</sup>The Master Contract Record MBPO is the central repository for all common contract files. The price files may be found in the individual vendor's MBPO.



#### UNSPSC®

The United Nations Standard Products and Services Code® (UNSPSC®) for VEH122 are listed as follows:

- 25-17-00 Transportation components and systems
- 25-17-50 Electric vehicle charging systems
- 25-19-00 Transportation services equipment

#### **Appendix: Detailed Contract Categories**

#### Category 1: Electric Vehicle Supply Equipment (EVSE), Hardware, Software, and Ancillary Services

EVSE includes charging station equipment, hardware, software, and ancillary services. Products offered in Category 1 must have the listing mark of an approved Nationally Recognized Testing Laboratory (NRTL). Examples of EVSE products include, but are not limited to, the following:

- Level 1 Hardware
- Level 2 Hardware
- DC Fast Charge (DCFC) Hardware
- Inductive Charging Hardware
- Network Software and Reporting Services
- Billing Services
- Site Assessment
- Installation and/or Commissioning
- Servicing and maintenance during and/or after warranty
- EVSE paired with clean energy generation and/or storage
- EVSE Vehicle to X software and services
- EVSE demand management software and services
- EVSE fleet charging management software and services
- Portable EV Charger with or without solar
- Portable Fast EV Charger with or without solar

#### Category 2: Idle Reduction – Heavy, Medium, and Light-Duty Vehicles; and Heavy-Duty Equipment

Idle Reduction Technologies include products and services designed to reduce unnecessary vehicle idling. Equipment categories include heavy-duty vehicles and heavy-duty equipment, medium-duty vehicles, and light-duty vehicles. Pricing, submitted by the Vendor, shall include installation, where appropriate. Products offered for heavy-duty vehicles must be Environmental Protection Agency (EPA) or Department of Energy (DOE) certified. All other products must be certified by a third party that is nationally recognized. Example products include, but are not limited to:

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- Battery/Auxiliary Power Units or Generator Set (APU/GSs)
- Cab or Bunk Heaters
- Air Heaters
- Waste Heat Recovery Systems

#### Category 3: Alternative Fuel & Technology Conversions

Alternative fuel & technology conversion systems modify vehicles and engines so that they can run on – or be supplemented by – fuels or technologies other than the ones for which they were originally designed. Conversion technologies shall be applicable to vehicles already in service, on the road or, new vehicles by upfit at time of purchase. Product offers must be certified by one of the following: EPA Clean Alternative Fuel Conversion Systems, CARB, a nationally recognized testing laboratory, or manufacturer certification that includes a warranty protection statement. All products must be installed by the manufacturer, or by certified or authorized installers. Vendors must provide a list of products and services that end users may purchase as stand-alone items or that may be offered as part of a full-service purchase option. Full-Service options include installation, labor and all ancillary costs. Warranty issues must be called out in ship-through codes. Pricing includes installation, transportation charges, and other ancillary services, as separate line items, where appropriate. Products include, but are not limited to:

- Battery Electric Vehicle (BEV) Technologies
- Hybrid Electric Vehicle (HEV) Technologies
- Plug-in Hybrid Electric Vehicle (PHEV) Technologies
- Hydraulic Hybrid Vehicle (HHV) Technologies
- Alternative Fuel Retrofit Technologies such as those used to convert vehicles from petroleum fuel to Propane, Compressed Natural Gas (CNG), Electricity, or Hydrogen
- Options to attain BEV, HEV, PHEV, HHV, or Alternative Fuel Technologies as vehicle upfits/retrofits.

Contractors are required to clearly identify in the initial quote any and all possible modifications and changes to the vehicle's current specifications. Such modifications or changes may include fuel economy, towing capacity, dimension changes, ground clearance, etc. For all integrated technologies, Contractors are required to inform customers whether the vehicle will remain operational in the event of a failure in the upfit technology.

#### Category 4: Electric Vehicle Supply Equipment (EVSE) Operation and Maintenance

This category offers a pre-qualified list of vendors to provide comprehensive maintenance and operational services for electric vehicle (EV) charging stations. Vendors will be responsible for ensuring the charging stations' optimal performance, reliability, and availability. These plans cover routine inspections, preventive

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maintenance, and prompt repair services to ensure optimal performance and reliability of the charging infrastructure. Vendors will be responsible for managing and servicing all aspects of the charging stations, including software updates, hardware repairs, and emergency response.

Vendors are required to clearly identify in the initial quote any and all possible modifications and changes to the vehicle's current specifications. Such modifications or changes may include fuel economy, towing capacity, dimension changes, ground clearance, etc.

If you need an electrician to work with your agency or municipality, please refer to the list of TRD01 Electrician Vendors located in the <u>Master Contract Record file</u>. These electricians are experienced with charging station installation and equipment.