Electric Vehicle Supply Equipment (EVSE) – Guidelines

PURPOSE

This establishes requirements for registration, metering, and reporting for Electric Vehicle Supply Equipment (EVSE) resources seeking Clean Peak Energy Certificates (CPECs) under the Massachusetts Clean Peak Standard (CPS) program.

I. APPLICATION TYPE

Guideline is intended for individual EVSEs or EVSE aggregations where:

1. EVSEs are registering as a CPS Demand Response resource.
2. EVSEs are not allowing the dispatch of energy back to the grid from the EV.
    - Guidelines for vehicle-to-grid resources will be published at a later date.

Please note the eligible resource is the EVSE, not the EV, even if reporting via vehicle Telematics.

II. REGISTRATIONS AND PRE-SQA APPROVAL

EVSE resources will need to follow the standard registration process for Clean Peak Resources:

A. Register resource with NEPOOL-GIS

B. Register resource with MassCEC Production Tracking System (PTS)

C. Submit a Statement of Qualification Application (SQA) for the CPS Program

III. REPORTING METHODS

EVSE resources can report their performance data via the methods described below. An EVSE aggregation must use the same reporting method for all EVSE resources in the aggregation. The Department and Program Administrator retain discretion to determine whether the proposed reporting method is sufficient to provide verifiable data for the issuance of Clean Peak Energy Certificates.

1. EVSE data host – data reported from the EVSE
    a. Applicants are required to provide documentation describing how data is retrieved and stored from the charger(s) as an attachment to the SQA
2. Vehicle Telematics data **is** geofenced to the specific charger's location
    b. Currently, only telematics data obtained using a direct, authorized integration to automaker's vehicle telematics is approved for reporting for CPS
    c. Applicants are required to provide documentation of telematics methodology as well as geofencing methodology as an attachment to the SQA

3. Submetering of the EVSE – installing a utility-grade submeter to report only on the performance of the EVSE
    d. Submeter must meet CPS metering requirements as described in the Meter Requirements for CPS document
    e. Meter Manufacturer and Model submitted will be provided as an attachment to the SQA

Please note that MassCEC will not accept estimated data in cases where measured EVSE performance data is lost or corrupted.

IV. ADDITIONAL REQUIREMENTS FOR REPORTING

Reporters must ensure that data is securely stored and maintain 2 years' worth of EVSE performance data in the case of an audit. In the case of an audit, reporters will be required to demonstrate that data is reporting performance for only the approved EVSE resources.

V. SQA Required Information for EVSE resources

All EVSE resources are required to provide additional EVSE information in the Excel template available here and submit it as an attachment to the SQA. Applicants are required to fill out the template tab that aligns with the reporting method for their EVSE or EVSE aggregation (EVSE, Telematics, Submeter). Some fields are required for all EVSE resources, while some depend on the reporting method, as described below.

1. All EVSE Resource applications must provide the information below about each EVSE resource:
    a. Commercial Operation Date
    b. Estimated Load Reduction (kW) – Equivalent to the charger capacity. If the charger is not charging during peak periods, it is effectively reducing the load by its capacity.
    c. Site Name
    d. Site Address, State, Zip Code
    e. Facility Sector (indicates private residential, commercial, or public charger)
    f. Utility Name – Please note that sites being served by a municipal electric utility are not currently eligible to participate in the CPS program
2. EVSE resources reporting directly from the EVSE charger must also provide:
    a. EVSE manufacture, model name, model number
    b. EVSE charger reporting methodology describing how data is retrieved and stored from chargers in aggregation as an attachment to the SQA
3. EVSE resources reporting via vehicle Telematics must also provide:
    a. Count of vehicles reporting for a given EVSE's performance
    b. Vehicle(s) manufacturer, model name, model number

c. Telematics methodology as an attachment to the SQA
d. Geofencing methodology and attestation as an attachment to the SQA (See Attachment A)

4. EVSE resources reporting from a submeter must also provide:
    a. Meter Manufacturer and Model

VI. Aggregation Requirements

EVSE resource aggregations must comply with the following:

A. All EVSE resources in an EVSE aggregation must use the same reporting method.
B. All EVSE resources in an EVSE aggregation must be from the same sector (residential, commercial, or public chargers). Residential chargers are located at homes or apartment complexes and used by residents. Commercial chargers are located at businesses for use by employees or commercial fleets. Public chargers are open for public use.

VII. Reporting Format

Data submitted to the PTS platform shall align with the format specified by the PTS EVSE reporting template.

A. Fields to be reported:
    i. Data will include energy used by the charger (kWh-AC).
    ii. Data will include the calculated 'CPEC eligible kWh' field -
        a. Calculation for 'CPEC Eligible kWh' shall be performed by the reporter
        b. See Section 6(b) of the Clean Peak Energy Portfolio Standard DEMAND RESPONSE RESOURCE GUIDELINE dated September 10, 2021, for details on the calculation
B. Reports to the CPTS must contain the elements listed and be formatted as specified in Attachment B.

VIII. USE OF CPTS API

Use of the CPTS API or other processes approved by the Program Administrator is required.

Attachment A
Telematics Attestation

For electric vehicle supply equipment (EVSE) Clean Peak Resources and Aggregations using the telematics reporting method defined under *MassCEC's Electric Vehicle Supply Equipment (EVSE) Guideline*, the following attestation must be signed and attached to the Statement of Qualification application (SQA) by the Owner or Authorized Agent of the Clean Peak Resource or Aggregation.

ATTESTATION

I _____(Name of Owner or Authorized Agent), am the Owner or Authorized Agent of EVSE or an Aggregation of EVSE participating in the Clean Peak Energy Portfolio Standard Program (CPS) under 225 CMR 21.00 and am using telematics to report production data to the Production Tracking System (PTS) for the purpose of generating Clean Peak Energy Certificates. I attest that I will only report energy interval readings provided and geofenced to the approved EVSE's location in the manner detailed in my SQA for the Clean Peak Resource or Aggregation. I am aware that any other type of reporting, including the reporting of estimated data in the case of lost or corrupted interval readings, is strictly prohibited and may result in noncompliance actions under 225 CMR 21.12. I am also aware that there are significant penalties, both civil and criminal, for submitting false information, including possible fines and imprisonment. I also agree to seek approval from the Massachusetts Clean Energy Center prior to any change in the reporting plan for my Clean Peak Resource or Aggregation.

Signature of Clean Peak Owner or Aggregator: _____

Date: _____

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Attachment B

Reporting Elements and Format

1. System Data

Name	Purpose	Format	Default Value	Notes
System ID	Associates the reported values with the resource in the PTS.	*Int (25868)*	*No Default Value*	System ID is assigned at the time of registration.
Interval Period	Specifies the Interval Period of the values reported (minutes)	Int	15	
Registry Reading	Net cumulative energy metered (kWh)	Float	*No Default Value*	Monthly Net Energy
Calculated Field	CPEC Eligible kWh	Float	*No Default Value*	Monthly Eligible CPEC kWh based on Net Energy with CPS-defined static EVSE baseline applied
Registry Date	Last Registry Reading Date for month	DateTime	UTC/ET	Monthly Registry Date

All DateTime Formats will be in UTC/ET Coordinated Universal Time (UTC) or Eastern Time, UTC with minus 4/5-hour offset

2019-11-08T18:11:48-5:00

2. Interval Readings

Name	Purpose	Format	Default Value
Timestamp	Marks the end of the interval Period	DateTime	UTC/ET
Net Energy	The Net Energy metered over the Interval Period (kWh)	Float	*No Default Value*
CPEC Eligible kWh	Eligible CPEC kWh based on Net Energy with CPS-defined static EVSE baseline applied	Float	*No Default Value*

All DateTime Formats will be in UTC/ET Coordinated Universal Time (UTC) or Eastern Time, UTC with minus 4/5-hour offset

2019-11-08T18:11:48-5:00

3. API Example


```
{"fk_system": 123456,
  "Interval": 15,
  "Frequency": "Monthly",
  "MonthlyNetEnergy": 143460,
  "MonthlyRegistryDate": "2024-02-01T00:00:00-05:00",
  "IntervalReadings": [
    {
      "NetEnergy": 0,
      "ReadingDate": "2024-01-01T00:15:00-05:00"
    },
    {
      "NetEnergy": 0,
      "ReadingDate": "2024-01-01T00:30:00-05:00"
    },
    {
      "NetEnergy": 0,
      "ReadingDate": "2024-01-01T00:45:00-05:00"
    },
    {
      "NetEnergy": 0,
      "ReadingDate": "2024-01-01T01:00:00-05:00"
    },
    {
      "NetEnergy": 0,
      "ReadingDate": "2024-01-01T01:15:00-05:00"
    },
    {
```