



Fuel Supply Equipment Registration User Guide

Clean Fuel Standard Program Guidance

By

Air Quality Program

Washington State Department of Ecology

Olympia, Washington

March 2023, Publication 23-02-028

Publication Information

This document is available on the Department of Ecology's website at:

<https://apps.ecology.wa.gov/publications/summarypages/2302028.html>

Cover photo credit

- Standard Ecology image, 2019

Related Information

Visit our website to view additional [Clean Fuel Standard guidance documents](#)¹.

Contact Information

Clean Fuels Program Staff

P.O. Box 47600

Olympia, WA 98504-7600

Email: CFS@ecy.wa.gov

Website: [Clean Fuel Standard](#)²

Audrey Stacey, Program Analyst

Phone: 564-669-0219

Email: audrey.stacey@ecy.wa.gov

ADA Accessibility

The Department of Ecology is committed to providing people with disabilities access to information and services by meeting or exceeding the requirements of the Americans with Disabilities Act (ADA), Section 504 and 508 of the Rehabilitation Act, and Washington State Policy #188.

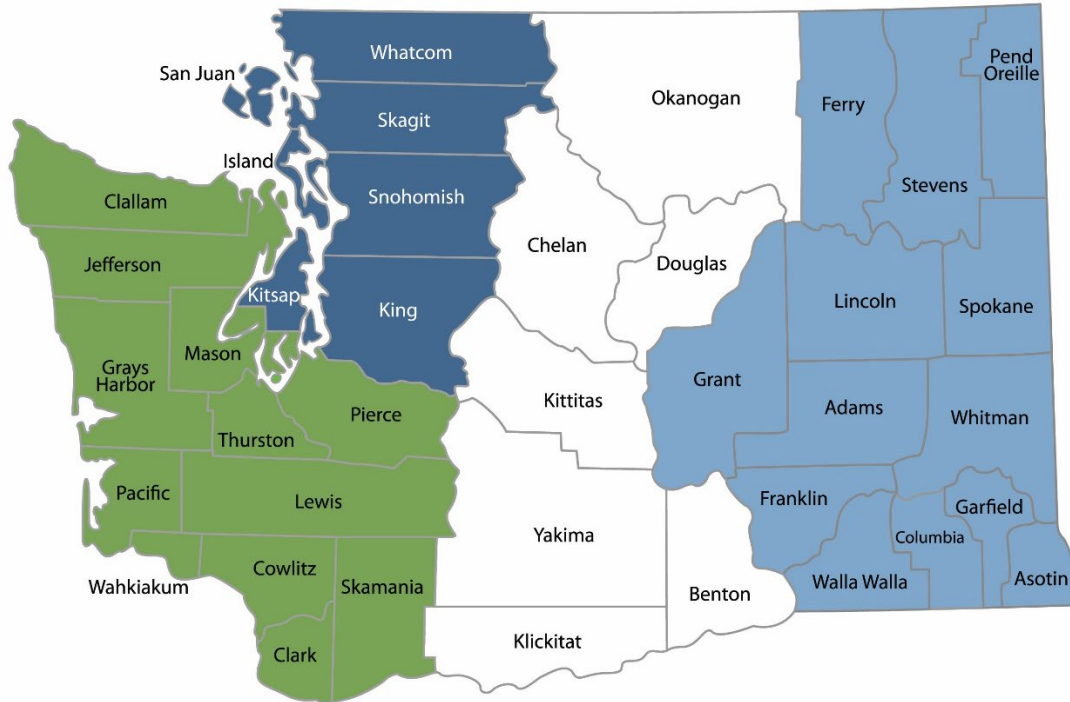
To request an ADA accommodation, contact Ecology by phone at 360-407-6831 or email at ecyADAcordinator@ecy.wa.gov. For Washington Relay Service or TTY call 711 or 877-833-6341. Visit Ecology's website for more information.

¹ https://www.ezview.wa.gov/site/alias__1962/37847/clean_fuel_standard_guidance_documents.aspx

² <https://ecology.wa.gov/Air-Climate/Reducing-Greenhouse-Gas-Emissions/Clean-Fuel-Standard>

Department of Ecology's Regional Offices

Map of Counties Served



Southwest Region 360-407-6300	Northwest Region 206-594-0000	Central Region 509-575-2490	Eastern Region 509-329-3400
---	---	---------------------------------------	---------------------------------------

Region	Counties served	Mailing Address	Phone
Southwest	Clallam, Clark, Cowlitz, Grays Harbor, Jefferson, Mason, Lewis, Pacific, Pierce, Skamania, Thurston, Wahkiakum	PO Box 47775 Olympia, WA 98504	360-407-6300
Northwest	Island, King, Kitsap, San Juan, Skagit, Snohomish, Whatcom	PO Box 330316 Shoreline, WA 98133	206-594-0000
Central	Benton, Chelan, Douglas, Kittitas, Klickitat, Okanogan, Yakima	1250 W Alder St Union Gap, WA 98903	509-575-2490
Eastern	Adams, Asotin, Columbia, Ferry, Franklin, Garfield, Grant, Lincoln, Pend Oreille, Spokane, Stevens, Walla Walla, Whitman	4601 N Monroe Spokane, WA 99205	509-329-3400
Headquarters	Across Washington	PO Box 46700 Olympia, WA 98504	360-407-6000

Fuel Supply Equipment Registration User Guide

Clean Fuel Standard Program Guidance

Air Quality Program
Washington State Department of Ecology
Olympia, WA

March 2023 | Publication 23-02-028



DEPARTMENT OF
ECOLOGY
State of Washington

Table of Contents

- 1. Introduction 6**
- 2. Uploading an FSE Registration in WFRS 7**
- 3. General FSE Registration Requirements..... 10**
- 4. FSE Registration Requirements by Category 13**
 - 4.1 Compressed Natural Gas (CNG) and Liquefied Natural Gas (LNG).....13
 - 4.2 Propane15
 - 4.3 Hydrogen.....16
 - 4.4 Electricity.....17
 - 4.4.1 Non-residential EV Charging.....18
 - 4.4.2 Metered Residential EV Charging.....20
 - 4.4.3 Electric Cargo Handling Equipment (eCHE)23
 - 4.4.4 Electric Ground Support Equipment (eGSE)24
 - 4.4.5 Electric Power for Ocean-Going Vessels (eOGV)25
 - 4.4.6 Electric Transportation Refrigeration Unit (eTRU)26
 - 4.4.7 Electric Forklifts27
 - 4.4.8 Electric Fixed Guideway Systems.....28
- 5. Completing the FSE Detail Sheet..... 29**

1. Introduction

The registration of fueling supply equipment (FSE) in the Washington Fuels Reporting System (WFRS) is required for natural gas, propane, hydrogen, and electricity before fuel quantities may be reported. It is recommended that FSE registration requests be submitted in the same quarter in which the fuel is dispensed to allow for time for processing by Ecology staff prior to quarterly reporting. In cases where it is not possible to register FSE until the reporting period has already begun, Ecology may process FSE registrations submitted in the first 30 days of the reporting period. To ensure enough time for processing before the quarterly reporting deadline, submit FSE registrations as early as possible.

Reporting entities must upload the completed **FSE Registration Template** and any necessary supporting documents into WFRS to submit the registration. The most updated FSE registration template is available on the WFRS home page as well as in the CFS guidance document library. If Ecology approves the FSE registration, the applicant will receive a unique FSE ID number for each piece of registered fuel supply equipment that must be used for reporting fuel quantities.

For electricity, reporting entities registering fuel supply equipment or locations for the following categories must also provide a completed **FSE Detail Sheet** which is outlined in section 5 of this document:

- electric cargo handling equipment (eCHE)
- electric power for ocean-going vessels (eOGV)
- electric transportation refrigeration units (eTRU)
- electric forklifts (e-forklifts)
- electric ground support equipment (eGSE)

If there are any modifications, such as a change in the vehicles in the fleet or if the equipment is out of service for more than 90 days, those changes should be reported to Ecology prior to uploading quarterly report data. Email the Ecology staff at WFRSAdmin@ecy.wa.gov to notify them of these changes.

Note: Prior to requesting FSE registration, an applicant must visit their **Organization Profile** to ensure all applicable fuels are checked in their list of Registration Categories. If the applicant is an aggregator that has been designated by a credit generator, they must ensure that they have uploaded the applicable Aggregator Designation Form to their **Organization Profile** and ensured the the designator has sent a copy of the form to WFRSAdmin@ecy.wa.org.

2. Uploading an FSE Registration in WFRS

To register FSE, registered parties must have an account in the [Washington Fuels Reporting System \(WFRS\)](#). Find instructions on setting up a WFRS account in the [WFRS-CBTS user guide](#).

After logging into WFRS, you will find a copy of the FSE Registration Template on the Home Page as shown below.

Registering Fueling Supply Equipment (FSE)

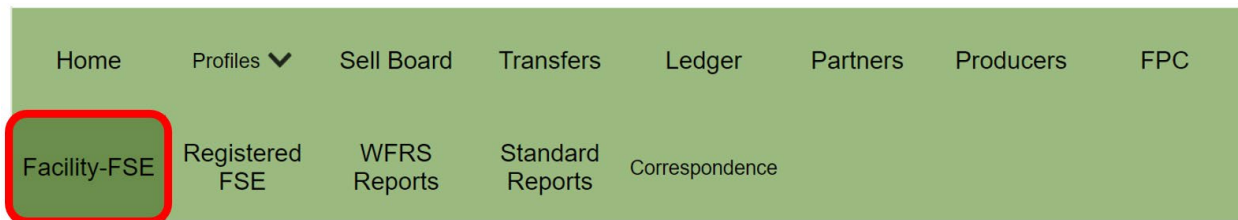
Following template must be used to register FSE for the reporting of CNG, LNG, Propane, Hydrogen and Electricity.

Excel version: [Fueling Supply Equipment \(FSE\) Registration Template \[Excel\]](#)

(Last updated: 3/9/2023 : 8:28 AM)



Instructions on completing the FSE Registration Template as well as a list of required supporting documents for specific fuels can be found in sections 3, 4 and 5 of this document. When the FSE Registration Template has been completed, it must be uploaded along with any other required supporting documents using the Facility-FSE Tab. Only users who have been assigned the “Administrator” role can access this tab. The Primary or Secondary Account Administrators can assign this role to users by visiting the Profiles tab.



Upload the FSE Registration Template and other required supporting documents by clicking the “Upload Registration Documents” button.

FACILITY-FUELING SUPPLY EQUIPMENT (FSE) REGISTRATION & SUPPORTING DOCUMENTATION

All FSE Registrations must upload a copy of the [Fueling Supply Equipment \(FSE\) Registration Template](#)


FSE Registrations for eCHE, eGSE, eOGV, eTRU, Forklifts, or EV Trucks (Yard Trucks) must also upload a copy of the [Fueling Supply Equipment \(FSE\) Detail Sheet](#).

Upload Registration Documents

Use the “Choose File” button to select a file for upload. Select a File or Document Type from the dropdown menu. Add optional remarks if desired.

Upload Document

File Name: **Choose File** Test_AFP Administrator Designation Form.pdf

File or Document Type: * Select... 

Remarks: Select... (Max:500)

- Facility-FSE Registration Excel File
- Hydrogen: A copy of a page from NREL report with Hydrogen Dispenser ID/Station ID (associated page from NREL Report)
- CNG/LNG/Propane: A copy of the utility bill/invoices for facilities to register (required upload as pdf or zip file).
- Other Supporting Documents (e.g., Utility Bills, Installation/Equipment Records, Meter Records)

Document Type **Delete**

No records to display.

Page size: 20 0 items in 1 pages

* REQUIRED

Click the “Upload Document” button for each document you need to include in your registration. When you have added all the required documents, click the “Submit”.

Document Type	File Name	Description	Download	Delete
Other Supporting Documents (e.g., Utility Bills, Installation/Equipment Records, Meter Records)	Test_FSE_Detail_Sheet.xlsx			
Facility-FSE Registration Excel File	Test_FSE_Registration_Template.xlsx			

After a successful submission, a message will show up indicating that the upload was successful and that the registration is queued for review. Click the “Ok” button to close. If there were errors in the submission, this popup will indicate that the registration needs to be resubmitted once the errors are resolved.

Facility-FSE Registration - Message

Uploaded registration file of Facility-FSE submitted and queued for review.

Login periodically to check the status of these Facility-FSE registrations.

Ok

The following errors will result in an unsuccessful submission:

- Latitude or Longitude outside of Washington
- An FSE has already been registered
- The Organization Profile has not been updated with the relevant Registration Categories

3. General FSE Registration Requirements

All FSE registrations must include the FSE Registration Template. Columns A-I as well as columns S-U of the FSE Registration Template need to be completed for all fuel types. Section 4 of this document will describe which additional columns are required for each fuel type.

The following information found in columns A-I as well as columns S-U are required for all fuel types:

Company information:

- Federal Employer Identification Number (FEIN) of the reporting entity
- Indication of whether the reporting entity a Designee
- Federal Employer Identification Number (FEIN) of the designating entity if the reporting entity is a designee

A	B	C
Company Information		
Company FEIN	Designee Role, Yes or No?	Designator FEIN

Fueling Facility Information:

- Name of fueling facility where the equipment is located
- Street address of fueling facility
- Latitude and longitude of equipment location

D	E	F	G	H	I
Fueling Facility Information					
Facility Name	Street Address	City Name	Zip Code	Latitude	Longitude

Ownership and operational information:

- Indication of whether the reporting entity is the owner or operator of the equipment
- Indication of whether the equipment operational
- Date the equipment became operational

S	T	U
Company Information (Credit generator)	Fueling Supply Equipment (FSE) Information	
Is the Company the Owner or Operator of the equipment?	Is Equipment Operational?	Date Equipment Became Operational (MM/DD/YYYY)

A description of each of these columns (A-I as well as S-U) are provided in the the table below. This information can also be found in the template itself by visiting the “Column-Descriptions” sheet.

Column	Column Title	Description
A	Company FEIN	The Federal Employer Identification Number (FEIN) for the reporting entity submitting the Fueling Supply Equipment (FSE) Registration Template. FEIN is a nine-digit number e.g., 12-3456789).
B	Designee Role (Yes or No)	Please enter “Yes” or “No” in this field to specify if you are designated by another entity to register each FSE. The Designee Role must be specified for each line item of FSE registration. Please note that the information under the "Designee Role" and “Designator FEIN” must be consistent with the WFRS-CBTS registration regarding Designators. A designator must be added into the WFRS-CBTS registration prior to the FSE registration.
C	Designator FEIN	If you enter “Yes” in the “Designee Role Yes or No?” column, include the Federal Employer Identification Number (FEIN) for the designator in the Designator FEIN field.
D	Facility Name	The name used to identify the fueling facility in Washington where the FSE is located (e.g., name of the CNG station, name of the H2 station, and name of the location where EV charger is located).
E	Facility Street Address	The street address of the FSE in Washington.
F	City Name	The name of the city in Washington where the FSE is located.
G	Zip Code	The zip code in Washington where the FSE is located.
H	Latitude	Provide latitude coordinate for the FSE in units of decimal degrees up to at least 5 decimal digits with a precision of 10 meters or less. For a larger facility, greater than 10 meters precision is acceptable as long the coordinate does not overlap with any other nearby FSE. Use of GPS devices for locating geo-coordinates with adequate precision is recommended. (Note: Latitude coordinate north of equator is always positive and that south of equator is always negative)
I	Longitude	Provide longitude coordinate for the FSE in units of decimal degrees up to at least 5 decimal digits with a precision of 10 meters or less. For a larger facility greater than 10 meters precision is acceptable as long it does not overlap with any

Column	Column Title	Description
		nearby FSE. Use of GPS devices for locating geocoordinates with adequate precision is recommended. (Note: Longitude coordinate west of prime meridian is always negative and that east of prime meridian is always positive)
S	Is the Company the Owner or Operator of the equipment?	Please enter "Owner" or "Operator" in this field to specify if the company (credit generator) is the owner or operator of the equipment. "Is the Company the Owner or Operator of the equipment?" must be specified for each line item of the FSE registration. Please note that the information under "Is the Company the Owner or Operator of the equipment?" must be consistent with the supporting documents that will be attached to the WFRS registration along with the FSE registration.
T	Is Equipment Operational?	Please enter "Yes" or "No" in this field to specify if the equipment that you are registering is operational. Is Equipment Operational? must be specified for each line item of FSE registration. Please note that the information under Is Equipment Operational? must be consistent with the supporting documents that will be attached to the WFRS registration along with the FSE registration.
U	Date Equipment Became Operational (MM/DD/YYYY)	Please enter the Date, in MM/DD/YYYY format, for when the equipment became operational. Date Equipment Became Operational (MM/DD/YYYY) must be specified for each item of FSE registration. Please note that the information under "Is Equipment Operational?" and "Date Equipment Became Operational (MM/DD/YYYY)" must be consistent with the supporting documents attached to the WFRS registration along with the FSE registration.

The following sections provide a description of which additional columns in the FSE Registration Template are required for specific fuels. They also provide guidance on which supporting documents are required for each fuel type.

4. FSE Registration Requirements by Category

4.1 Compressed Natural Gas (CNG) and Liquefied Natural Gas (LNG)

For CNG and LNG, each fueling location with multiple fueling positions is considered a single FSE. If multiple fuels (CNG, LNG, propane, etc.) are being dispensed at the same facility then the FSE must be registered separately for each fuel.

FSE Registration Template

In addition to filling columns A-I and columns S-U, CNG and LNG reporting entities need to fill columns **J-K** as shown below:

J	K
Natural Gas (NG) Fueling Supply Equipment	
CNG Utility Meter# / LNG Fueling Station ID	CNG Utility Name/LNG Station Owner

For **CNG**, provide the number of the utility meter associated with that FSE as shown on the utility bill. Also provide the name of the utility supplying the natural gas to be dispensed at the FSE as shown on the utility bill.

For **LNG**, submit a unique identifier associated with the equipment used for their own fuel accounting or financial accounting or other purposes and a copy of invoice or bill of lading for the most recent LNG delivery. Also provide the name of the owner of the FSE.

The table below provides a description of columns **J-K**:

Column	Column Title	Description
J	CNG Utility Meter # /LNG Facility ID	The identifier for the CNG fueling facility FSE meters as shown on the utility bills, which may be an alphanumeric identifier. If there are multiple CNG facilities being registered, provide a new record in the spreadsheet with a CNG Utility Meter # for each facility. For LNG and L-CNG facilities, provide the unique identifier associated with the FSE assigned for fuel accounting or financial accounting or other purposes. Upload a copy of most recent invoice or bill of lading for the fuel delivered to the fueling facility. This document should clearly show the unique identifier being assigned to the registered FSE.
K	CNG Utility Name /LNG Facility Owner	The name of the utility company providing the natural gas for the fueling facility FSE meter as shown on the utility bills. For LNG or C-LNG, enter the name of the owner of the LNG/L-CNG facility.

Supporting Documentation

Please provide the following with the FSE template:

- For CNG, upload a copy of most recent utility bill for each FSE. For an FSE dispensing L-CNG, a copy of recent bill of lading must also be uploaded.
- For LNG, upload a copy of most recent invoice or bill of lading for the fuel delivered to the fueling facility.
- If the applicant is not the FSE owner, documentation must be provided demonstrating that the FSE owner designated the applicant entity to register the FSE and act as the fuel reporting entity and credit generator on its behalf. This documentation must include the name and address of the entity that owns the FSE.

4.2 Propane

For propane, each fueling location with multiple fueling positions is considered a single FSE. If multiple fuels (CNG, LNG, propane, etc.) are being dispensed at the same facility then the FSE must be registered separately for each fuel.

FSE Registration Template

In addition to filling columns A-I and columns S-U, propane reporting entities have to fill columns **L-M**, as shown below:

L	M
Propane Fueling Supply Equipment	
Fueling Station ID	Fueling Station Owner

Propane fuel reporting entities are required to provide a unique identifier associated with the FSE used for their own fuel accounting or financial accounting or other purposes. They must also provide the name of the owner of the FSE

The table below provides a description of columns **L-M**:

Column	Column Title	Description
L	Propane Fueling Station ID	Provide the unique identifier associated with the FSE assigned for fuel accounting or financial accounting or other purposes. Upload a copy of most recent invoice or bill of lading for the fuel delivered to the fueling facility. This document should clearly show the unique identifier being assigned to the registered FSE.
M	Propane Fueling Station Owner	The name of the company that owns the Propane Fueling Station.

Supporting Information

Please provide the following with the FSE template:

- Upload a copy of most recent invoice or bill of lading for the fuel delivered to the fueling facility.
- If the applicant is not the FSE owner, documentation must be provided demonstrating that the FSE owner designated the applicant entity to register the FSE and act as the fuel reporting entity and credit generator on its behalf. This documentation must include the name and address of the entity that owns the FSE.

4.3 Hydrogen

For hydrogen, each fueling station with multiple dispensers is considered a single FSE.

FSE Registration Template

In addition to filling columns A-I and columns S-U, hydrogen fuel reporting entities have to fill column **N**, as shown below:

N
Hydrogen (H2) Fueling Supply Equipment
Hydrogen FSE Availability Tracking System ID

Fuel reporting provider entities for hydrogen need to provide a serial number or station identifier.

The table below provides a description of column **N**:

Column	Column Title	Description
N	Hydrogen Fueling Station ID	Unique Identifier assigned to the hydrogen fueling equipment.

Supporting Information

Please provide the following with the FSE template:

- A copy of a document (or photo) that shows the station manufacturer, the serial number assigned by the manufacturer, and whether the station is LDV, MHDV, or both (multi-modal).
- If the applicant is not the FSE owner, documentation must be provided demonstrating that the FSE owner designated the applicant entity to register the FSE and act as the fuel reporting entity and credit generator on its behalf. This documentation must include the name and address of the entity that owns the FSE.

4.4 Electricity

If there are multiple FSEs at the same location, each unique piece of equipment must be registered separately. The system will indicate whether the same FSE registration has already been submitted by you or by another party.

Sections 4.4.1 through 4.4.6 of this document provide a more detailed explanation of what information needs to be provided in each column for specific electricity reporting categories.

FSE Registration Template

In addition to filling columns A-I and columns S-U, electricity reporting entities have to fill columns **O-R**, as shown below.

O	P	Q	R
Electricity Fueling Supply Equipment (FSE)			
Charging Type	EV-FSE Serial #	EV-FSE Manufacturer	VIN (For Residential Incremental Crediting Only)

The table below provides a description of columns **O-R**.

Column	Column Title	Description
O	Charging Type	Electric transportation charging types and the Electric Vehicle Fueling Supply Equipment (EV-FSE) type used for charging
P	EV-FSE Serial #	The serial number of the Electric Vehicle Fueling Supply Equipment (EV-FSE) assigned by the Original Equipment Manufacturer (OEM).
Q	EV-FSE Manufacturer	The name of the Original Equipment Manufacturer (OEM) of the Electric Vehicle Fueling Supply Equipment (EV-FSE).
R	VIN (For Residential Incremental Crediting Only)	The Vehicle Identification Number (VIN) for the vehicle expected to be charged at the residential location.

Supporting Information

Some electricity categories will be required to submit the FSE Detail Sheet. See section 5 of this document for additional details on how to complete that supporting documentation.

4.4.1 Non-residential EV Charging

For non-residential EV charging, FSE refers to each piece of equipment capable of measuring the electricity dispensed for EV charging. This includes FSE used for charging eligible on-road electric Light and Medium Duty Vehicles (LDV/MDV) and Heavy-duty Vehicles (HDV). If there are multiple FSEs at the same location, each FSE must be registered separately.

FSE Registration Template

In addition to filling columns A-I and columns S-U, non-residential EV charging reporting entities have to fill columns **O-Q**, as shown below:

Column	Column Title	Description
O	Charging Type	<p>Electric transportation charging types and the Electric Vehicle Fueling Supply Equipment (EV-FSE) type used for charging</p> <ul style="list-style-type: none"> • Select Non-Residential (Level 2) if the FSE is associated with a level-2 (SAE J1772)³ charger used for non-residential charging of electric LDV/MDV. • Select Non-Residential (DCFC – CHAdeMO) if the FSE is associated with a Direct Current Fast Charger (DCFC) supporting only CHAdeMO⁴ charging protocol used for non-residential charging of electric LDV/MDV. • Select Non-Residential (DCFC – CCS) if the FSE is associated with a Direct Current Fast Charger (DCFC) supporting only CCS⁵ charging protocol used for non-residential charging of electric LDV/MDV. • Select Non-Residential (DCFC – Tesla) if the FSE is associated with a Direct Current Fast Charger (DCFC) supporting only Tesla charging protocol used for non-residential charging of electric LDV/MDV. • Select Non-Residential (DCFC – CHAdeMO & CCS), Non-Residential (DCFC – CHAdeMO & Tesla), Non-Residential (DCFC – CCS & Tesla), or Non-Residential (DCFC – CHAdeMO, CCS & Tesla) if the FSE is associated with a Direct Current Fast Charger (DCFC) supports multiple types of charging protocol used for non-residential charging of electric LDV/MDV. • Select On-road Heavy Duty EV Charging if the FSE is associated with a charging equipment for on-road electric HDV.
P	EV-FSE Serial #	The serial number of the Electric Vehicle Fueling Supply Equipment (EV-FSE) assigned by the Original Equipment Manufacturer (OEM).
Q	EV-FSE Manufacturer	The name of the Original Equipment Manufacturer (OEM) of the Electric Vehicle Fueling Supply Equipment (EV-FSE).

³ Level-2 charger refers to the SAE J1772 standard, Electric Vehicle and Plug in Hybrid Electric Vehicle Conductive Charge Coupler. https://www.sae.org/standards/content/j1772_201001/

⁴ CHAdeMO refers the fast charging protocol developed and maintained by CHAdeMO association. <https://www.chademo.com/>

⁵ CCS refers to Combined Charging System (CCS) developed and maintained by the association Charging Interface Initiative (CharIN). <https://www.charinev.org/about-us/who-is-behind-charin/>

Supporting Information

Please provide the following with the FSE template:

- If the applicant is not the FSE owner, documentation must be provided demonstrating that the FSE owner designated the applicant entity to register the FSE and act as the fuel reporting entity and credit generator on its behalf. This documentation must include the name and address of the entity that owns the FSE.
- Upon Ecology request, provide a photo that shows the FSE manufacturer and the serial number.
- If the FSE submitted for registration are associated with a FCI application, please include the following note under the Remarks section that will appear in the WFRS at the time of submitting FSE registration:
 - “FSE under consideration are part of a FCI application submitted for the <site name> with the <Correspondence Reference ID>.”

4.4.2 Metered Residential EV Charging

For metered residential EV charging, FSE refers to each piece of equipment or on-vehicle telematics capable of measuring the electricity dispensed for EV charging.

Per WAC 173-424-220(4), electricity used to charge electric vehicles at multifamily housing sites may be reported under non-residential EV charging and thus FSE used to supply electricity to multifamily housing sites are not eligible to be registered for residential EV charging.

Incremental Crediting Hierarchy

Any entity can request FSE registration for metered residential EV charging. Pursuant to WAC 173-424-220(11)(b)(iii), multiple claims for incremental credits for metered residential EV charging associated with a particular FSE will be resolved pursuant to the following hierarchy:

- **First Priority:** The utility supplying electricity to the EV associated with the FSE ID that has metered charging data.
- **Second Priority:** The manufacturer of the EV associated with the FSE ID providing metered charging data.
- **Third Priority:** Any entity, not covered above, that can provide metered charging data. If two or more entities with third priority register for the same FSE, no incremental credits will be issued for that FSE until the entities can resolve the dispute and come forward with a single claim.

For metered residential EV charging, if an entity submits registration request for a FSE that is already registered in the WFRS-CBTS by another entity, the following applies:

- If the new registration is from an entity with lower priority in the hierarchy than the entity holding the FSE registration, the new FSE registration will be denied and the entity with higher priority in hierarchy retains the FSE registration.
- If the new registration is from an entity with higher priority in the hierarchy than the entity holding the FSE registration, the FSE registration will be approved, and it is made available to the entity with higher priority in hierarchy for reporting the quarter of approval. The entity holding the prior registration will be notified in the same quarter.

For non-metered residential EV charging, an electric utility is eligible to generate incremental credits for supplying low-CI electricity to an EV in its service territory if a VIN for that EV is not already registered as FSE for metered residential charging. To generate incremental credits for non-metered residential charging for a given quarter, the electric utility must provide the list of all VINs and residing ZIP codes for eligible EVs by the end of every quarter using the template provided on the [Clean Fuels Program Guidance Documents webpage](#).

Upon Ecology request, the electric utility must provide evidence of EV registration and low carbon electricity supply at the residential location.

FSE Registration Template

In addition to filling columns A-I and columns S-U, metered residential EV charging reporting entities have to fill columns O-Q, as follows:

Column	Column Title	Description
O	Charging Type	<p>Electric transportation charging types and the Electric Vehicle Fueling Supply Equipment (EV-FSE) type used for charging</p> <ul style="list-style-type: none"> Select Residential Incremental – Off-Vehicle (Level 2) if the FSE is associated with a level-2 (SAE J1772)⁶ charger used for residential EV charging. Select Residential Incremental – Off-Vehicle (Level 1) if the FSE is associated with a level-1 charger used for residential EV charging. Select Residential incremental – On-Vehicle (telematics) if the FSE is associated with on-vehicle telemetry capable of metering residential EV charging.
P	EV-FSE Serial #	If off-vehicle meter is used as FSE, provide the serial number assigned to each equipment by the OEM. If on-vehicle telemetry is used as FSE, this column can be left blank (the template allows entry up to 35 characters in this field).
Q	EV-FSE Manufacturer	If off-vehicle meter is used as FSE, provide the name of OEM. If on-vehicle telemetry is used as FSE, provide name of the automaker for the EV.
R	VIN (For Residential Incremental Crediting Only)	Provide Vehicle Identification Number (VIN) of the EV that is expected for residential charging.

Prior to requesting FSE registration, a prospective metered residential incremental credit generator must update their Organization Profile in the WFRS-CBTS to identify themselves as applicable for Residential EV Charging under Registration Categories.

⁶ Level-2 charger refers to the SAE J1772 standard, Electric Vehicle and Plug in Hybrid Electric Vehicle Conductive Charge Coupler. https://www.sae.org/standards/content/j1772_201001/

4.4.3 Electric Cargo Handling Equipment (eCHE)

For eCHE, FSE refers to the facility or location where electricity is dispensed for fueling. If there are multiple equipment capable of measuring the electricity dispensed to eligible transport applications at the facility or location, each independent piece of equipment may be registered as FSE.

If the eCHE owner is not the operator of the equipment, the eCHE owner must **annually notify in writing** to the eCHE operator that they are generating credit for the amount of electricity the operator uses for the eCHE. They also must notify them of the estimated annual credits and credit revenue the owner will get for the use of electricity in the eCHE based on the credit price in the previous year. For the 2023 calendar year, the owner will use the average of the annual credit price in CARB and OR-DEQ clean fuel standard programs. Documentation of this annual notification should be available upon Ecology request.

If the eCHE owner does not generate credits, the eCHE operator may generate credits if both entities reach an agreement by written contract. If the the eCHE operator is generating credits, they are responsible to provide the same written **annual notification** described above to the eCHE owner.

For the purpose of CFS crediting an electric yard truck is considered a heavy-duty truck and will be reported as electric truck with an Energy Economy Ratio (EER) value of 5.0.

FSE Registration Template

In addition to filling columns A – I and columns S-U, eCHE reporting entities have to fill columns O-Q as shown below.

Column	Column Title	Description
O	Charging Type	Select eCHE as the charging type for the EV-FSE.
P	EV-FSE Serial #	Provide the OEM assigned serial number to the metering equipment used to measure the electricity supplied to eligible eCHE. If there are multiple equipment capable of measuring the electricity dispensed to eligible transportation application at the facility or location, each piece of equipment can be registered as a separate FSE.
Q	EV-FSE Manufacturer	Provide the name of the OEM of the metering equipment referred to in Column P. In addition, a list of equipment being charged at the registered facility or location needs to be provided using the FSE Detail Sheet (see section 5 of this document).

Supporting Information

Please provide the following with the FSE template:

- Documentation demonstrating that the applicant entity is the owner of the FSE. If the applicant is not the FSE owner, documentation must be provided demonstrating that the FSE owner designated the applicant entity to register the FSE and act as the fuel reporting entity and credit generator on its behalf. This documentation must include the name and address of the entity that owns the FSE.
- If the applicant is the eCHE operator, rather than the eCHE owner, they must provide a copy of the written contract between the owner and operator, giving them the rights to generate credits for the eCHE.
- To support prevention of duplicate claims for CFS crediting at the same facility or location, reporting parties will need to provide a copy of the FSE Detail Sheet. This is a list of equipment being charged at the registered facility or location. See section 5 of this document for information on how to fill out this sheet.

4.4.4 Electric Ground Support Equipment (eGSE)

For eGSE, FSE refers to the facility or location where electricity is dispensed for fueling. If there are multiple equipment capable of measuring the electricity dispensed to eligible transport applications at the facility or location, each independent piece of equipment may be registered as FSE.

FSE Registration Template

In addition to filling columns A-I and columns S-U, eOGV reporting entities have to fill columns **O-Q** as shown below.

Column	Column Title	Description
O	Charging Type	Select eGSE as the charging type for the EV-FSE.
P	EV-FSE Serial #	Provide the Original Equipment Manufacturer-assigned serial number for the electric ground service charging equipment.
Q	EV-FSE Manufacturer	Provide the name of the OEM of the electric charging equipment referred to in Column P. In addition, a list of equipment being charged at the registered facility or location needs to be provided using the FSE Detail (see section 5 of this document).

Supporting Information

Please provide the following with the FSE template:

- Documentation demonstrating that the applicant entity is the owner of the FSE. If the applicant is not the FSE owner, documentation must be provided demonstrating that the FSE owner designated the applicant entity to register the FSE and act as the fuel reporting entity and credit generator on its behalf. This documentation must include the name and address of the entity that owns the FSE.
- If the applicant is the eGSE operator, rather than the eGSE owner, they must provide a copy of the written contract between the owner and operator, giving them the rights to generate credits for the eGSE.
- To support prevention of duplicate claims for CFS crediting at the same facility or location, reporting parties will need to provide a copy of the FSE Detail Sheet. This is a list of equipment being charged at the registered facility or location. See section 5 of this document for information on how to fill out this sheet.

4.4.5 Electric Power for Ocean-Going Vessels (eOGV)

For eOGV, FSE refers to the facility or location where electricity is dispensed for fueling. If there are multiple equipment capable of measuring the electricity dispensed to eligible transport applications at the facility or location, then each independent piece of equipment may be registered as FSE.

FSE Registration Template

In addition to filling columns A – I and columns S-U, eOGV reporting entities have to fill columns O-Q as shown below.

Column	Column Title	Description
O	Charging Type	Select eOGV as the charging type.
P	EV-FSE Serial #	Provide the OEM-assigned serial number to the metering equipment used to measure the electricity supplied to eligible eOGV. If there are multiple pieces of equipment capable of measuring the electricity dispensed to eligible transportation applications at the facility or location (ie, each berth has a separate meter), each piece of metering equipment must be registered as a separate FSE.
Q	EV-FSE Manufacturer	Provide the name of the OEM of the metering equipment referred to in Column P. In addition, a list of equipment being charged at the registered facility or location needs to be provided using the FSE Detail (see section 5 of this document).

Supporting Information

Please provide the following with the FSE template:

- Documentation demonstrating that the applicant entity is the owner of the FSE. If the applicant is not the FSE owner, documentation must be provided demonstrating that the FSE owner designated the applicant entity to register the FSE and act as the fuel reporting entity and credit generator on its behalf. This documentation must include the name and address of the entity that owns the FSE.
- If the applicant is the eOGV fleet operator, rather than the eOGV owner, they must provide a copy of the written contract between the owner and operator, giving them the rights to generate credits for the eOGV.
- To support prevention of duplicate claims for CFS crediting at the same facility or location, reporting parties will need to provide a copy of the FSE Detail Sheet. This is a list of equipment being charged at the registered facility or location. See section 5 of this document for information on how to fill out this sheet.

4.4.6 Electric Transportation Refrigeration Unit (eTRU)

For eTRU, FSE refers to each transportation refrigeration unit and each unit must be registered as FSE for reporting purposes. If the same eTRU is being operated at multiple locations, it may be registered as a different FSE for each location.

The CFS program rule requires the quantity of electricity dispensed to eTRU to be reported per FSE, i.e., eTRU. However, if each eTRU is not equipped to measure electricity consumption or separate measuring devices are not available to measure electricity per eTRU, an average value of electricity based on total electricity measured for a fleet of eTRU in a given quarter can be reported per FSE.

FSE Registration Template

In addition to filling columns A – I and columns S-U, eTRU reporting entities have to fill columns O-Q as shown below.

Column	Column Title	Description
O	Charging Type	Select eTRU as the charging type.
P	EV-FSE Serial #	Provide the OEM assigned serial number for each eTRU being registered.
Q	EV-FSE Manufacturer	Provide the name of the OEM of the eTRU referred to in Column P. In addition, a list of eTRUs being charged at the registered facility or location needs to be provided using the FSE Detail (see section 5 of this document).

Supporting Information

Please provide the following with the FSE template:

- Documentation demonstrating that the applicant entity is the owner of the FSE. If the applicant is not the FSE owner, documentation must be provided demonstrating that the FSE owner designated the applicant entity to register the FSE and act as the fuel reporting entity and credit generator on its behalf. This documentation must include the name and address of the entity that owns the FSE.
- Upon Ecology request, provide a photo that shows the eTRU manufacturer and the serial number assigned by the manufacturer.
- To support prevention of duplicate claims for CFS crediting at the same facility or location, reporting parties will need to provide a copy of the FSE Detail Sheet. This is a list of equipment being charged at the registered facility or location. See section 5 of this document for information on how to fill out this sheet.

4.4.7 Electric Forklifts

For electric forklifts, FSE refers to the facility or location where electricity is dispensed for fueling. If there are multiple pieces of equipment capable of measuring the electricity dispensed to eligible transport applications at the facility or location, each piece of equipment may be registered as FSE.

If the forklift owner is not the operator of the equipment, the forklift owner must **annually notify in writing** to the forklift operator that they are generating credit for the amount of electricity the operator uses for the electric forklifts. They also must notify them of the estimated annual credits and credit revenue the owner will get for the use of electricity in the forklift based on the credit price in the previous year. For the 2023 calendar year, the owner will use the average of the annual credit price in CARB and OR-DEQ clean fuel standard programs. Documentation of this annual notification should be available upon Ecology request.

If the forklift fleet owner does not generate credits, the forklift operator may generate credits if both entities reach an agreement by written contract. If the the forklift operator is generating credits, they are responsible to provide the same written **annual notification** described above to the forklift owner.

FSE Registration Template

In addition to filling columns A-I and columns S-U, electric forklifts reporting entities have to fill columns O-Q as shown below.

Column	Column Title	Description
O	Charging Type	Select e-forklifts as the charging type Electric Vehicle Fuel Supply Equipment (EVFSE) type used for charging.
P	EV-FSE Serial #	Provide the serial number or a unique identifier for each location where the electric forklifts are being charged.
Q	EV-FSE Manufacturer	Provide the name of the OEM of the electric forklift referred to in Column P. In addition, a list of equipment being charged at the registered facility or location needs to be provided using the FSE Detail (see section 5 of this document).

Supporting Information

Please provide the following with the FSE template:

- If the applicant entity is not the electric forklift fleet owner, documentation must be provided demonstrating that the forklift fleet owner has designated the applicant entity to be the fuel reporting entity and credit generator on its behalf.
- If the applicant is the forklift fleet operator, rather than the fleet owner, they must provide a copy of the written contract between the owner and operator, giving them the rights to generate credits for the forklift fleet.
- To support prevention of duplicate claims for CFS crediting at the same facility or location, reporting parties will need to provide a copy of the FSE Detail Sheet. This is a list of equipment being charged at the registered facility or location. See section 5 of this document for information on how to fill out this sheet.

4.4.8 Electric Fixed Guideway Systems

For Fixed Guideway Systems, please email WFRSAdmin@ecy.wa.gov with the subject “FSE ID request for Fixed Guideway System”. This email should include the following:

- Documentation of the system or lines within a system that are going to be included within this FSE registration.
- Demonstration that the transit agency can separately meter traction power for the fixed guideway system separately from other loads on the system (such as lighting, escalators, HVAC, etc.).
- The in service date of the fixed guideway system.

5. Completing the FSE Detail Sheet

FSE Registrations for eCHE, eGSE, eOGV, eTRU, Forklifts, or EV Trucks (Yard Trucks) must also upload a copy of the Fueling Supply Equipment (FSE) Detail Sheet. A copy of the FSE Detail Sheet can be found in the [CFS Guidance Document Library](#), or downloaded in the Facility FSE tab in WFRS.

A description of the information required in this sheet can be found within the sheet itself as well as in the table below. This sheet should be uploaded in WFRS along with any other required supporting documentation for specific FSE as described in section 2 of this document.

The table below provides a description of columns A–Q.

Column	Column Title	Description
A	Quarter and year FSE is/was initially registered for reporting	Please enter Year and Quarter combinations from the drop-down list in this field to specify when was the Fuel Supply Equipment (FSE) initially registered in WFRS. The "Quarter and year FSE is/was initially registered for reporting" must be specified for each line item of the FSE Registration Form. Please note that the information under "Quarter and year FSE is/was initially registered for reporting" must be consistent with the supporting documents attached to the WFRS registration along with the FSE Registration Form.
B	Date Fleet Information was last collected or updated (MM/DD/YYYY)	Please enter the Date, in MM/DD/YYYY format, for when the fleet information was last collected or updated. "Date Fleet Information was last collected or updated (MM/DD/YYYY)" must be specified for each item of the FSE Registration Form.
C	Registered Party Name	The company name for the registered entity submitting the FSE Registration Form.
D	Registered Party FEIN	The Federal Employer Identification Number (FEIN) for the registered entity submitting the FSE Registration Form. FEIN is a nine-digit number e.g., 12-3456789).
E	Is the Registered Party the Owner or Operator of the equipment?	Please enter "Owner" or "Operator" in this field to specify if the registered entity is the owner or operator of the equipment. "Is the Registered Party the Owner or Operator of the equipment?" must be specified for each line item of the FSE registration. Please note that the information under "Is the Registered Party the Owner or Operator of the equipment?" must be consistent with the supporting documents that will be attached to the WFRS registration along with the FSE Registration Form.

F	Aggregator (if applicable)	The company name for the aggregator designated by the registered entity submitting the FSE Registration Form.
G	Aggregator FEIN (if applicable)	The FEIN for the aggregator designated by the registered entity submitting the FSE Registration Form. FEIN is a nine-digit number e.g., 12-3456789).
H	Application Type	Electric transportation charging types. These are off-road equipment types used for charging.
I	Equipment Type	Electric transportation equipment types.
J	Vehicle OEM Name	The name of the Original Equipment Manufacturer (OEM) of the Electric Vehicle/Equipment.
K	Vehicle OEM Issued Unique Identifier	The unique identifier or serial number of the Electric Vehicle/Equipment assigned by the OEM.
L	Model Year	The model year of the Electric Vehicle/Equipment provided by the OEM.
M	Address - Facility where the equipment is generally located	The street address, city, and zip code in Washington where the fueling facility is located.
N	Is the Equipment Currently Operational at the facility? (Y or N)	Please enter "Yes" or "No" in this field to specify if the equipment that you are registering is operational. "Is the Equipment Currently Operational at the facility?" must be specified for each line item of the FSE Registration. Form Please note that the information under "Is the Equipment Currently Operational at the facility?" must be consistent with the supporting documents that will be attached to the WFRS registration along with the FSE Registration Form.
O	When was the equipment first placed into service at the Facility (MM/DD/YYYY)	Please enter the Date, in MM/DD/YYYY format, for when the equipment was first placed into service at the facility. For vehicle types other than e-forklift, provide the Date (MM/DD/YYYY), if you don't have one please type "Unkown". The text should be typed without quotation marks and should be typed exactly as shown. "When was the equipment first placed into service at the Facility (MM/DD/YYYY)" must be specified for each item of the FSE Registration Form. Please note that the information under "Is the Equipment Currently Operational at the facility?" and "When was the equipment first placed into service at the Facility (MM/DD/YYYY)" must be

		consistent with the supporting documents attached to the WFRS registration along with the FSE Registration Form.
P	When was the equipment taken out of service at the Facility (MM/DD/YYYY)	Please enter the Date, in MM/DD/YYYY format, for when the equipment was taken out of service at the facility. If the equipment is still in service, please type "In Service". For vehicle types other than e-forklift, provide the Date (MM/DD/YYYY), if you don't have one please type "Unkown". Both texts, "In Service" and "Unknown", should be typed without quotation marks and should be typed exactly as shown. "When was the equipment taken out of service at the Facility (MM/DD/YYYY)" must be specified for each item of the FSE Registration Form. Please note that the information under "Is the Equipment Currently Operational at the facility?" and "When was the equipment taken out of service at the Facility (MM/DD/YYYY)" must be consistent with the supporting documents attached to the WFRS registration along with the FSE Registration Form.
Q	Calculation method for kWh consumption (For e-forklifts only)	Please enter "Estimated" or "Metered" in this field to specify the calculation methodology that will be used to report e-forklift-related electricity consumption. "Calculation method for kWh consumption (For e-forklifts only)" must be specified for each item of the FSE Registration Form. Please note that the information under "Calculation method for kWh consumption (For e-forklifts only)" must be consistent with the supporting documents attached to the WFRS registration along with the FSE Registration Form. An estimation method may only be used if a written statement is submitted to Ecology demonstrating the reasons you are unable to provide measured electricity data.