**Electric Bus and Bus Charging Station Form**Public Purpose Charge (SB 1149) Schools Program

**CONTACT INFORMATION**

School District:

Contact Person and Title:

Mailing Address:

Phone:

E-mail:

**Form Prepared By *(if other than SD filling out form)*:**

Organization/Firm:

Contact Person and Title:

Mailing Address:

Phone:

E-mail:

**Has fleet audit been completed and submitted to ODOE?**

***(If not, then please see fleet audit details on*** [***SB 1149 Schools Program website***](https://www.oregon.gov/energy/energy-oregon/Pages/Public-Purpose-Charge-%28SB-1149%29-Fleet-Audits-Electric-Vehicles-and-Charging-Stations.aspx)***.)***

**Electric Buses**

*Will the School District use the electric bus for student transportation of any kind? If so, then please work with the Oregon Department of Education on any rules/regulations/requirements for student transportation.* [ODE contact information](https://www.oregon.gov/ode/schools-and-districts/Pages/default.aspx)

1. Only fill out this section if requesting SB 1149 funds for electric bus(es)
2. Number of buses being requested for SB 1149 funds reimbursement:
3. Details on bus(es) requested:
4. If leasing any buses, provide length of lease term:

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Bus** | **Make** | **Model** | **Type** | **Year** | **Battery Size (kWh)**  | **Total Range (Miles)** | **Cost** | **Purchase or Lease** |
| 1 |  |  |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |  |  |

1. Will the School District be replacing an existing bus with an electric bus?

*If so, then please provide information below to reference bus details in fleet audit:*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Bus** | **Make** | **Model** | **Type** | **Year** |
| 1 |  |  |  |  |
| 2 |  |  |  |  |
| 3 |  |  |  |  |

**Electric Bus Charging Stations**

*Only fill out this section if requesting SB 1149 funds for charging stations for electric bus fleet*

* Does the School District have any electric buses currently?
* Is there currently electric bus charging infrastructure? If so, please provide location, use details and type of chargers, etc.:
* Number of chargers being requested for SB 1149 funds reimbursement:
* Make/model/type for each charger requested: *(DC Fast Charge, Level 2, dual pedestal, etc.)*

* Please provide site location(s) of charging station(s) including facility name and/or address:
* Will the charging station be owned by the School District? *If not, then please list owner.*
* Will the charging station be available for School District EVs, School District staff for personal vehicles and/or will it be available for public use? *Please also estimate percent of use (e.g. 50% workplace, 40% staff, 10% public)*
* Will the School District charge a fee for use of charger? *Please specify if fee would apply to staff and/or public.*
* Has the School District discussed infrastructure with electric provider? *If so, any concerns, details that were discussed.*
* Will the charging station have its own electric meter with the School District’s electric provider account? If not, then which electric bill/meter will the charging station be included with.

**Electric Bus Charging Station Costs**

Please provide total project cost estimate including details below. If contractor estimate is provided with broken out details, then table below is not required if estimate is attached.

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Equipment Cost** | **Labor Cost** |  |
| **Charger Type** | **Qty** | **Unit** | **Total** | **Hrs/Unit** | **$/Hour** | **$/Unit** | **Total** | **Total Cost** |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| **Subtotal Equipment & Labor** |  |  |  |  |  |  |  |  |
| Design & Engineering costs |  |  |  |  |  |  |  |  |
| Software costs |  |  |  |  |  |  |  |  |
| Permitting fees |  |  |  |  |  |  |  |  |
| Auxiliary equipment costs *(wiring, conduit, breakers, disconnects, etc.)* |  |  |  |  |  |  |  |  |
| Construction Costs *(trenching, paving, etc.)* |  |  |  |  |  |  |  |  |
| Electrical installation costs *(if separate from labor costs)* |  |  |  |  |  |  |  |  |
| Other costs: *Please specify* |  |  |  |  |  |  |  |  |
| **Total Costs** |  |  |  |  |  |  |  | $ |

**SB 1149 Funds for Electric Buses and Bus Charging Stations**

SB 1149 eligible amounts are not considered approved for reimbursement until after the School District has completed the fleet audit, the Electric Bus and Bus Charging Stations Form and submitted receipts and final cost documentation requesting reimbursement to ODOE.

* **SB 1149 Eligible Portion for Reimbursement for Bus Charging Stations**

100% of Charging Station cost to the School District for dedicated units to electric bus fleet

* **SB 1149 Eligible Amount for Reimbursement for Electric Buses**

Type A Buses – up to $250,000 per bus

Type C/D Buses – up to $300,000 per bus

*The SB 1149 eligible cost is valid through December 31, 2021 unless otherwise approved by ODOE. Eligible costs will be re-evaluated for 2022.*

*SB 1149 eligible amounts are not to exceed 100% of purchase price minus any other funding the School District receives.*

**School District Savings**

If your School District is considering replacing a bus with an electric bus or adding an electric bus to your fleet, these are some estimated potential savings:

**Estimated Fuel Cost and Greenhouse Gas Emissions:**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Fuel Type** | **Fuel Efficiency\*\*** |  **Unit** | **Price** | **Per unit** | **Price per mile** | **Annual Miles** | **Annual Fuel Cost** | **Annual Emissions lbs of CO2 \*\*\*** |
| Compressed Natural Gas | 4 | MPG | $ 2.19 | Gallon | $ 0.55 | 12,000 | $ 6,570 | 57,000 |
| Diesel | 8 | MPG | $ 2.61 | Gallon | $ 0.33 | 12,000 | $ 3,915 | 58,000 |
| Propane | 7 | MPG | $ 2.73 | Gallon | $ 0.39 | 12,000 | $ 4,680 | 35,000 |
| Electricity | 75 | Miles per charge | $ 12.40 | Charge\* | $ 0.17 | 12,000 | $ 1,984 | 18,000 |
| \* Estimate that each charge is 155 kWh and electricity average cost is $0.08 per kWh\*\* Fuel rates from [USDOE Alternative Fuels Data Center National Average prices](https://afdc.energy.gov/fuels/prices.html). MPG in calculations are average MPG’s pulled from different bus manufacture sites and only used to show estimated fuel savings for the SB 1149 Schools Program.\*\*\* CO2 emissions above come from using the average annual vehicle details above in Fuel Savings section of form as inputs within the[*US DOE Vehicle Cost Calculator.*](https://afdc.energy.gov/calc/)CO2 emissions are consistent with the Oregon DEQ emissions factors. |

**Estimated Fuel Savings:**

**CNG to EV is *$4,320* per year**

**Diesel to EV is *$1,680* a year**

**Propane to EV is *$2,400* a year**





**Estimated Greenhouse Gas Emissions Savings:**

**CNG to EV is *39,000 lbs CO2* a year**

**Diesel to EV is *40,000 lbs CO2* a year**

**Propane to EV is 17,000 *lbs CO2* a year**

