

**APPENDIX D-4**  
**Beneficiary Eligible Mitigation Action Certification**

**BENEFICIARY ELIGIBLE MITIGATION ACTION CERTIFICATION**

Beneficiary Washington State

Lead Agency Authorized to Act on Behalf of the Beneficiary Washington Department of Ecology  
*(Any authorized person with delegation of such authority to direct the Trustee delivered to the Trustee pursuant to a Delegation of Authority and Certificate of Incumbency)*

<b>Action Title:</b>	Scrap & replace pre-2007 diesel school buses with all-electric school buses
<b>Beneficiary's Project ID:</b>	EMA2-School Bus-C1
<b>Funding Request No.</b>	<i>(sequential)</i> 4
<b>Request Type: (select one or more)</b>	<input type="checkbox"/> Reimbursement <span style="float: right;"><input type="checkbox"/> Advance</span> <input type="checkbox"/> Other (specify): _____
<b>Payment to be made to: (select one or more)</b>	<input checked="" type="checkbox"/> Beneficiary <input type="checkbox"/> Other (specify): _____
<b>Funding Request &amp; Direction (Attachment A)</b>	<input type="checkbox"/> Attached to this Certification <input checked="" type="checkbox"/> To be Provided Separately

**SUMMARY**

<b>Eligible Mitigation Action</b>	<input checked="" type="checkbox"/> Appendix D-2 item (specify): <u>2. Class 4-8 School Bus, Shuttle Bus, or Transit Bus</u>
<b>Action Type</b>	<input type="checkbox"/> Item 10 - DERA Option (5.2.12) (specify and attach DERA Proposal):
<b>Explanation of how funding request fits into Beneficiary's Mitigation Plan (5.2.1):</b> See summary attached.	
<b>Detailed Description of Mitigation Action Item Including Community and Air Quality Benefits (5.2.2):</b> See summary attached.	
<b>Estimate of Anticipated NOx Reductions (5.2.3):</b> This action will reduce 34 tons of lifetime NOx emissions.	
<b>Identification of Governmental Entity Responsible for Reviewing and Auditing Expenditures of Eligible Mitigation Action Funds to Ensure Compliance with Applicable Law (5.2.7.1):</b> Washington Department of Ecology.	
<b>Describe how the Beneficiary will make documentation publicly available (5.2.7.2).</b> <b>See summary attached.</b>	
<b>Describe any cost share requirement to be placed on each NOx source proposed to be mitigated (5.2.8).</b> See summary attached.	
<b>Describe how the Beneficiary complied with subparagraph 4.2.8, related to notice to U.S. Government Agencies (5.2.9).</b> <b>See summary attached.</b>	

If applicable, describe how the mitigation action will mitigate the impacts of NOx emissions on communities that have historically borne a disproportionate share of the adverse impacts of such emissions (5.2.10).  
See Summary attached.

**ATTACHMENTS**  
**(CHECK BOX IF ATTACHED)**

- Attachment A Funding Request and Direction.
- Attachment B Eligible Mitigation Action Management Plan Including Detailed Budget and Implementation and Expenditures Timeline (5.2.4).
- Attachment C Detailed Plan for Reporting on Eligible Mitigation Action Implementation (5.2.11).
- Attachment D Detailed cost estimates from selected or potential vendors for each proposed expenditure exceeding \$25,000 (5.2.6). [Attach only if project involves vendor expenditures exceeding \$25,000.]
- Attachment E DERA Option (5.2.12). [Attach only if using DERA option.]
- Attachment F Attachment specifying amount of requested funding to be debited against each beneficiary's allocation (5.2.13). [Attach only if this is a joint application involving multiple beneficiaries.]

**CERTIFICATIONS**

By submitting this application, the Lead Agency makes the following certifications:

1. This application is submitted on behalf of Beneficiary State of Washington, and the person executing this certification has authority to make this certification on behalf of the Lead Agency and Beneficiary, pursuant to the Certification for Beneficiary Status filed with the Court.
2. Beneficiary requests and directs that the Trustee make the payments described in this application and Attachment A to this Form.
3. This application contains all information and certifications required by Paragraph 5.2 of the Trust Agreement, and the Trustee may rely on this application, Attachment A, and related certifications in making disbursements of trust funds for the aforementioned Project ID.
4. Any vendors were or will be selected in accordance with a jurisdiction's public contracting law as applicable. (5.2.5)
5. Beneficiary will maintain and make publicly available all documentation submitted in

support of this funding request and all records supporting all expenditures of eligible mitigation action funds subject to applicable laws governing the publication of confidential business information and personally identifiable information. (5.2.7.2)

DATED: 8/29/2019

Maia Bellon, Director  
\_\_\_\_\_  
[NAME] *Maia Bellon*  
[TITLE] *Director*  
Department of Ecology  
\_\_\_\_\_  
[LEAD AGENCY]

for  
Washington State  
\_\_\_\_\_  
[BENEFICIARY]

**[SAMPLE ATTACHMENT B - USE OF THIS FORMAT IS NOT MANDATORY]**

**PROJECT MANAGEMENT PLAN**  
**PROJECT SCHEDULE AND MILESTONES**

Milestone	Date
Ecology develops grant application forms for Ecology's Administration of Grants and Loans (EAGL) online application database	7/2019
Ecology submits Appendix D-4 to trustee for project approval.	8/2019
Ecology announces funding opportunity and kickoff via EAGL, Ecology's VW webpage, and Ecology's VW listserv	10/2019
Trustee approves project.	12/2019
Ecology notifies grant recipients of award	1/2020
Ecology and grant awardees finalize contract	3/2020
Grant awardee notifies Ecology of completion of bus order	4/2020 - 6/2021
Grant awardee notifies Ecology of bus delivery	10/2020 - 6/2021
Ecology reports on project progress	Jan and July each year
Ecology reviews reimbursement requests from grant awardee and provides payment for projects as completed	8/2020 - 7/2021
Grant awardee reports on progress (quarterly)	quarterly
Ecology submits funding direction (Appendix D-4 Attachment A) to the Trustee for reimbursement of project funds.	8/2020-9/2021
Trustee reimburses Ecology for project funding	9/2020 - 7/2021
Ecology completes school bus replacement projects	10/2021
Ecology submits final project report to trustee	10/2021

**PROJECT BUDGET**

Period of Performance: 7/2019 - 10/2021				
Budget Category	Total Approved Budget	Share of Total Budget to be Funded by the Trust	Cost-Share, if applicable (Entity #1)	Cost-Share, if applicable (Entity #2)
1. Equipment Expenditure	\$ 16,500,000	\$ 12,000,000	\$ 4,500,000	\$ \$0.00
2. Contractor Support <i>(Provide List of Approved Contractors as Attachment with approved funding ceilings)</i>	\$ \$0.00	\$ \$0.00	\$ \$0.00	\$ \$0.00
3. Subrecipient Support <i>(Provide List of Approved Subrecipients or Grant Awardees as Attachment with approved funding ceilings)</i>	\$ \$0.00	\$ \$0.00	\$ \$0.00	\$ \$0.00
4. Administrative <sup>1</sup>	\$ 1,000,000	\$ 1,000,000	\$ 0	\$ \$0.00
<b>Project Totals</b>	\$ 17,500,000	\$ 13,000,000	\$ 4,500,000	\$ \$0.00
<b>Percentage</b>	100 %	74 %	26 %	0 %

<sup>1</sup> Subject to Appendix D-2 15% administrative cap.

	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
<b>1. Anticipated annual project funding request to be paid through the Trust</b>	\$0	\$5,200,000	\$5,200,000	\$2,600,000	\$0						
<b>2. Anticipated annual cost share*</b>		\$1,800,000	\$1,800,000	\$900,000	\$0						
<b>3. Anticipated total project funding by year (line 1 plus line 2)</b>	\$0	\$7,000,000	\$7,000,000	\$3,500,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>4. Cumulative Trustee payments made in previous years against cumulative approved beneficiary allocation</b>	\$600,000	\$13,347,000	\$22,207,000	\$16,121,000	\$225,000	\$0	\$0	\$0	\$0	\$0	\$0
<b>5. Current beneficiary project funding to be paid through the trust (line 1)</b>	\$0	\$5,200,000	\$5,200,000	\$2,600,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>6. Total funding allocated to beneficiary, inclusive of current action by year (line 4 plus line 5)</b>	\$0	\$18,547,000	\$27,407,000	\$18,721,000	\$225,000	\$0	\$0	\$0	\$0	\$0	\$0
<b>7. Beneficiary share of estimated funds remaining in trust</b>	\$112,100,000	\$112,100,000	\$93,553,000	\$66,146,000	\$47,425,000	\$47,200,000	\$47,200,000	\$47,200,000	\$47,200,000	\$47,200,000	\$47,200,000
<b>8. Net beneficiary funds remaining in Trust, net of cumulative beneficiary funding actions (line 7 minus line 5)</b>	\$112,100,000	\$93,553,000	\$66,146,000	\$47,425,000	\$47,200,000	\$47,200,000	\$47,200,000	\$47,200,000	\$47,200,000	\$47,200,000	\$47,200,000

## **ATTACHMENT C – DETAILED PLAN FOR REPORTING ON ELIGIBLE MITIGATION ACTION IMPLEMENTATION (5.2.11).**

The Washington Department of Ecology, as the lead agency for the state of Washington implementing the Environmental Mitigation plan, will provide detailed reporting on this funding request in two ways: (1) timely updates to the Department of Ecology’s Volkswagen Federal Enforcement Action website; and (2) semi-annual reports to the Trustee as required by subparagraph 5.3 of the Environmental Mitigation Trust Agreement for State Beneficiaries.

The Department has established a public VW website that will host detailed implementation reporting information. The public website, <https://ecology.wa.gov/Air-Climate/Airquality/Vehicle-emissions/VW-federal-enforcement-action>, was created to provide information related to the Trust, the VW partial Consent Trust Decrees, Washington’s plans, and implementation information. In order to provide transparency and accountability, the Department of Ecology will make publically available all the required documentation under Paragraph 7 of the Appendix D-3 Certification for Beneficiary Status form.

The Department will comply with the reporting obligations listed in the Environmental Mitigation Trust Agreement for State Beneficiaries in subparagraph 5.3, reporting to Trustee on the status of and expenditures associated with the Mitigation Actions completed and underway within six months of the first disbursement and then January 30<sup>th</sup> and July 30<sup>th</sup> thereafter.

The Department of Ecology will periodically evaluate implementation of the Beneficiary Mitigation Plan and implementation of the Eligible Mitigation Actions after the initial round of funding and will determine whether any revisions to the Beneficiary Mitigation Plan and funding levels are appropriate or necessary.

**ATTACHMENT D – DETAILED COST ESTIMATES FROM SELECTED OR  
POTENTIAL VENDORS FOR EACH PROPOSED EXPENDITURE EXCEEDING  
\$25,000 (5.2.3).**

There is currently not an all-electric standalone electric school bus model on the state contract. School districts have the option to purchase a diesel model with an electric power upgrade off the state contract in order to get an all-electric school bus. Attachment D-1 shows the cost of a BlueBird diesel school bus on the state Master Contract is \$122,651. Electric school buses are tax exempt in Washington State so sales tax does not need to be included. The electric upgrade costs an additional \$299,651, making the total bus cost approximately \$422,302. The Office of Superintendent of Public Instruction intends to add standalone all-electric school bus model(s) to the State Master Contract in Fall 2019 which could change the cost estimates we've included. Ecology will include any changes in bus costs in the semi-annual reports to the Trustee.

The costs associated with installing electric vehicle supply equipment (EVSE) can vary widely, depending on site location, available electrical capacity, labor costs, and charger type. Attachment D-2 includes examples of Light Duty EVSE costs on the 2019 Washington State Master Contract. We expect school bus charging infrastructure and installation costs to be similar.





2018-19

## PART I

**Specification**  
**TYPE D—84 PASSENGER, REAR ENGINE**

Use this document to bid both non-lift and lift buses for 61 – 84 capacity.

Vendor: BRYSON SALES &  
SERVICE OF WASHINGTON, INC.

ITEM	SPECIFICATIONS Vendor must meet or exceed these specifications. Item bid shall be specified in column to right.	VENDOR SPECIFICALLY IDENTIFY ITEM BID Price of items bid will establish the district cost.
Seating Capacity	84 passenger maximum design capacity seated for 78 passenger.	Capacity w/o lift <u>78</u> Capacity w/lift <u>58</u>
Alternator	240 amp minimum. Lift-equipped or air-conditioned. Manufacturer recommended capacity.	Mfr. <u>LEECE NEVILLE</u> Amps output w/o lift or A.C. <u>240</u> Amps output w/lift or A.C. <u>240</u>
Auxiliary Fans	2 fans, 6" maximum, mounted to right and left windshield and service door.	Mfr. <u>DCM</u>
Axle—Front	13,200 lb. minimum total suspension GVWR.	Mfr. <u>HENDRICKSON</u> Capacity <u>13,200</u>
Axle—Rear	23,000 lb. minimum total suspension GVWR.	Mfr. <u>DANA</u> Capacity <u>23,000</u>
Axle Oil Seals	Front and rear oil bath.	Mfr. <u>SKF</u>
Axle Ratio	Must comply with power and gradeability formula. Refer to Washington State School Bus Specifications Manual.	Ratio <u>5.29</u>
Back-up Lights	All required backup lights to be LED (Light Emitting Diode). Refer to Washington State School Bus Specification's Manual.	Round: <input checked="" type="checkbox"/> Diameter <u>4"</u> Other: <input type="checkbox"/> Square inches _____
Battery(ies)	1400 CCA 12 volt to be mounted in body battery compartment.	Number of batteries <u>3</u> CCA <u>2100</u>
Battery Compartment	Battery storage tray must be large enough to accommodate batteries as specified in chassis section.	<input checked="" type="checkbox"/> Swing out <input type="checkbox"/> Roll out
Brakes	Air: Drum or Disc. If Drum, minimum 16.5" x 6" front, minimum 16.5" x 8" rear. Refer to Washington State School Bus Specifications Manual.	Disc    Front <input type="checkbox"/> Rear <input type="checkbox"/> Drum    Front <input checked="" type="checkbox"/> Rear <input checked="" type="checkbox"/> Size    Front <u>16.5" x 6"</u> Rear <u>16.5" x 8.62"</u>
Door, Service	Power operated.	<input type="checkbox"/> Folding <input type="checkbox"/> Other <input type="checkbox"/> Roll out <input checked="" type="checkbox"/> Split, Outward opening

Driver's Seat	Suspension type, 6-way adjustable, with lumbar adjustment. Cloth panel covers.	Mfr. <u>NATIONAL</u>
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PART I (cont.)

Vendor: BRYSON SALES & SERVICE OF WASHINGTON, INC.

**Specification**  
**TYPE D—84 PASSENGER, REAR ENGINE**

Use this document to bid both non-lift and lift buses for 61 – 84 capacity.

ITEM	SPECIFICATIONS Vendor must meet or exceed these specifications. Item bid shall be specified in column to right.	VENDOR SPECIFICALLY IDENTIFY ITEM BID Price of items bid will establish the district cost.
Engine	Diesel—280 H.P. minimum, located in the rear.	Engine mfr. <u>CUMMINS</u> Model or liters <u>B6.7</u> Net torque <u>660</u> @ <u>1600</u> R.P.M Net H.P. <u>280</u> @ <u>2400</u> R.P.M
Engine Heater	Engine manufacturer's recommended in-block heater.	Watts <u>750</u> Volts <u>120</u> Mfr. <u>PHILLIPS</u>
Engine Temperature	To be controlled electronically, by fan clutch/drive, or shutters.	Mfr. <u>HORTON</u> <input type="checkbox"/> Electronic <input checked="" type="checkbox"/> Fan clutch <input type="checkbox"/> Shutters
Fuel Tank	100 gallon minimum.	Capacity <u>100 GALLON</u>
Heaters	Minimum of 3 heaters; 1 front, 1 center, 1 rear. Shutoff valves at engine for all heaters. Two-speed motors. Must include recirculating pump.	Front B.T.U. <u>90,000</u> Center B.T.U. <u>50,000</u> Rear B.T.U. <u>50,000</u> Total B.T.U. <u>190,000</u>
Lights	LED (Light Emitting Diode). Includes Clearance Lights, Stop Lights—7", Tail Lights, Turn Signals, Eight-Light System, and Dome-Light System.	Check if as specified <input checked="" type="checkbox"/> If not, explain _____
P.A. System	AM/FM/PA radio with 4 interior and 1 exterior speakers.	Mfr. <u>MITO</u> Model No. <u>07-SPF-21408</u>
Seat Spacing	78 passenger based upon manufacturer's maximum seat spacing.	Inside measurement from rear of stepwell to appropriate point at rear of passenger seating area: <u>388</u> inches Mfg.'s C/C seat measurement: _____ inches
Steering Wheel	Tilt and telescoping column.	Check if as specified <input checked="" type="checkbox"/>
Step Tread	Studded or pebbled top tread covering.	Mfr. <u>SMI</u>
Tires	6 first quality, radial ply. No low profile tires.	Mfr. <u>COOPER</u>

		Size <u>11R 22.5</u>
		Load range <u>H</u>

PART I (cont.)

**Specification**  
**TYPE D—84 PASSENGER, REAR ENGINE**

Vendor: BRYSON SALES & SERVICE OF WASHINGTON, INC.

Use this document to bid both non-lift and lift buses for 61 – 84 capacity.

ITEM	SPECIFICATIONS Vendor must meet or exceed these specifications. Item bid shall be specified in column to right.	VENDOR SPECIFICALLY IDENTIFY ITEM BID Price of items bid will establish the district cost.
Toolbox	Exterior, manufacturer standard.	Size (cubic feet) <u>3.16</u>
Transmission	Automatic—Allison, PTS 3000 or equal.	Mfr. <u>ALLISON</u> Model no. <u>3000 PTS</u> Net input torque <u>950</u> Net input H.P. <u>300</u>
Two-way Communications	45-watt, VHF, mil. spec.	Mfr. <u>KENWOOD</u> Model No. <u>TK-7302</u>
Wheels	6 to be compatible with tire size.	Size <u>22.5"</u> Rim width <u>8.25"</u>
<b>SPECIAL NEEDS REQUIREMENTS—CHASSIS AND BODY</b>		
Wheelchair Lift—Installed	Must meet state specification. Platform shall be a minimum of 32" x 52".	Mfr. <u>BRAUN</u> Model No. <u>NCL-919-F1B2</u>
Wheelchair/ Occupant Tie-down System—Installed	Must meet state specification.	Mfr. <u>Q-STRAINT</u> Model No. <u>Q-8106-L2</u>

Specification  
**TYPE D—84 PASSENGER, REAR ENGINE**

Vendor: BRYSON SALES &  
SERVICE OF WASHINGTON, INC.

Use this document to bid both non-lift and lift buses for 61 – 84 capacity.

ITEM	SPECIFICATIONS Vendor must meet or exceed these specifications. Item bid shall be specified in column to right.	VENDOR SPECIFICALLY IDENTIFY ITEM BID Price of items bid will establish the district cost.
<b>ADDITIONAL REQUIREMENTS—CHASSIS AND BODY</b>		
Line Setting Ticket	Legible copy of manufacturer's Line Setting Ticket will be delivered with each vendor's packet at the time of delivery of the bus.	Check if as specified <input checked="" type="checkbox"/>
Owner's/Operator's Handbook	One copy of the chassis manufacturer's owner's/operator's handbook or manual will be furnished with each bus at time of delivery.	Check if as specified <input checked="" type="checkbox"/>
Repair Manuals	A complete set of chassis, engine, transmission, and body repair manuals, including wiring diagram for all components, will be made available at time of delivery, with instructions available on accessing repair materials.	Check if as specified <input checked="" type="checkbox"/>
Service and Cleaning	Cleaning and service by vendor prior to delivery will include: <ul style="list-style-type: none"> <li>• Chassis lubrication.</li> <li>• Check fluid levels: verify all are at recommended full levels.</li> <li>• Cooling system protected at -20°F.</li> <li>• Interior and exterior will be clean (including glass).</li> <li>• All systems (electric, air, hydraulic, mechanical and manual) be inspected to ensure proper operation at time of delivery.</li> <li>• All components and accessories will be installed and operational at time of delivery.</li> </ul>	Check if as specified <input checked="" type="checkbox"/>
Warranty	A complete copy of all warranty agreements will be furnished at time of delivery.	Check if as specified <input checked="" type="checkbox"/>



2018-19

STUDENT TRANSPORTATION  
 Old Capitol Building  
 PO BOX 47200  
 Olympia, WA 98504-7200  
 (360) 725-6120 TTY (360) 664-3631

**VEHICLE DATA SHEET AND OFFICIAL PRICE QUOTATION  
 TYPE D—84 PASSENGER, REAR ENGINE**

VENDOR'S COMPANY NAME <b>BRYSON SALES &amp; SERVICE OF WASHINGTON, INC.</b>	REPRESENTATIVE'S NAME <b>ROBERT KANTER</b>	TELEPHONE NUMBER <b>425-953-2820</b>
ADDRESS <b>2407 GIBSON RD EVERETT, WA 98204</b>	Estimated delivery date to school district from time purchase order is received: <u>150-180 DAYS ARO</u>	
	Firm where engine and chassis can be serviced or repaired and parts obtained: <u>BRYSON SALES &amp; SERVICE OF WASHINGTON, INC.</u>	
	Firm where body can be serviced or repaired and parts obtained: <u>BRYSON SALES &amp; SERVICE OF WASHINGTON, INC.</u>	

BODY			
MAKE <b>BLUE BIRD</b>	Warranty: Years <u>3</u> Miles <u>UNLIMITED</u>	Inside measurement from rear of stepwell to appropriate point at rear of passenger seating area: w/o lift <u>388"</u> w/lift <u>388"</u>	Equipped seating capacity: w/o lift <u>78</u> w/lift <u>58</u>
MODEL <b>T3RE 3904</b>	YEAR <b>2020</b>	Seat color: <u>BROWN</u> Floor color: <u>BLACK</u>	Overall vehicle length (inches): w/o lift <u>472"</u> w/lift <u>472"</u>

CHASSIS		ENGINE	
MAKE <b>BLUE BIRD</b>	Warranty: Years <u>3</u> Miles <u>UNLIMITED</u>	MANUFACTURER <b>CUMMINS</b>	Torque: <u>660</u> @ <u>1600</u> RPM H.P.: <u>280</u> @ <u>2400</u> RPM
MODEL <b>T3RE 3904</b>	YEAR <b>2020</b>	Wheel base: <u>259"</u>	MODEL <b>B6.7</b>
TRANSMISSION		Warranty: Years <u>5</u> Miles <u>100,000</u>	YEAR <b>2020</b>
MANUFACTURER <b>ALLISON</b>	Speeds forward: <u>5</u>	Number of cylinders: <u>6</u> Inline <input checked="" type="checkbox"/> V-type <input type="checkbox"/>	C.I.D.: <u>6.7</u> Fuel type: <u>DIESEL</u>
MODEL <b>3000 PTS</b>	Warranty: Years <u>5</u> Miles <u>UNLIMITED</u>		Battery type/grp: <u>31</u> <u>31</u> Number batteries: <u>3</u> <u>3</u> Total CCA: <u>2100</u> <u>2100</u>

QUOTED PRICE	
Quoted price is based upon payment within 30 days after delivery to the school district (without sales tax).	
Bid—w/o lift \$ <u>120,483.00</u>	Bid—w/lift \$ <u>122,349.00</u>
VENDOR REPRESENTATIVE'S SIGNATURE	DATE

State Price Quote Specification  
**DISTRICT-SUPPORTED OPTIONS**

C60    C77    D60    D84

Use this document to bid both non-lift and lift buses.

ITEM	Vendor must meet or exceed these specifications. Item bid shall be specified in column to right.	<b>VENDOR SPECIFICALLY IDENTIFY ITEM BID</b> Price of items bid will establish the district cost.	
Activity Securement Seating	2-passenger position seats with lap-shoulder belts in all passenger positions.	Passenger Capacity <u>48</u> Cost \$ <u>14028.00</u>	
Air Conditioning	To cool passenger compartment as required in the Washington State School Bus Specifications manual.	Mfr. <u>TRANSARCTIC MCX</u> Cost \$ <u>9400.00</u>	
Alternate Fuel <input type="checkbox"/> CNG <input checked="" type="checkbox"/> Electric	Must comply with power and gradeability formula. Refer to Washington State School Bus Specifications manual. Must comply with all of the requirements of FMVSS No. 305.	Mfr. <u>REFER TO CNG CATEGORY</u> <input type="checkbox"/> CNG Cost \$ <u>REFER TO CNG CATEGORY</u> <input checked="" type="checkbox"/> Electric Cost \$ <u>299651.00</u>	
Alternator	Available options.	Cost \$ <u>INCLUDED</u> Capacity <u>240 AMP</u> Cost \$ <u>474.00</u> Capacity <u>270 AMP</u> Cost \$ <u>636.00</u> Capacity <u>320 AMP</u>	
Anti-spray Device	Rubber fender extenders.	Type C: Cost \$ <u>162.00</u> Type D: Cost \$ <u>312.00</u>	
Back-up Alarm	Must meet state specification.	Mfr. <u>ECCO</u> Cost \$ <u>144.00</u>	
Brakes	4-wheel hydraulic disk brake.	Cost \$ <u>N/A</u>	Deduct \$ <u>N/A</u>
Brakes	Air, Drum or Disc. Refer to Washington State School Bus Specifications manual.	Disc Cost \$ <u>2982.00</u> Drum Cost \$ <u>N/A</u>	Disc Deduct \$ <u>N/A</u> Drum Deduct \$ <u>N/A</u>
Color	Exterior white roof.	Cost \$ <u>INCLUDED</u>	
Door Locks	Vandal lock system on all exterior doors.	Cost \$ <u>500.00</u>	
Driver's Seat	Suspension type, 6-way adjustable, with lumbar adjustment. Cloth panel covers.	<b>Non-Air</b>	<b>Air</b>
		Mfr. <u>NATIONAL</u>	Mfr. <u>NATIONAL</u>
		Cost \$ <u>INCLUDED</u>	Cost \$ <u>252.00</u>
Fire Suppression System	Jomarr VT-6-E-NAF, or equal engine compartment fire suppression system of appropriate size to be installed according to manufacturer recommendation.	Mfr. <u>AMEREX</u> Cost \$ <u>4608.00</u>	
Floor Color	Nonstandard color.	Cost \$ <u>410.00</u>	

SERVICE OF WASHINGTON, INC.

**State Price Quote Specification**  
**DISTRICT-SUPPORTED OPTIONS**

C60    C77    D60    D84

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ITEM	Vendor must meet or exceed these specifications. Item bid shall be specified in column to right.	<b>VENDOR SPECIFICALLY IDENTIFY ITEM BID</b> Price of items bid will establish the district cost.	
Fuel Tank	Larger fuel capacity (CNG only).	Size: <u>N/A</u>	Cost \$ <u>N/A</u>
Fuel Tank	Larger fuel capacity (Diesel only).	Size: <u>N/A</u>	Cost \$ <u>N/A</u>
Fuel Tank	Larger fuel capacity (Propane only).	Size: <u>N/A</u>	Cost \$ <u>N/A</u>
Headlights	Halogen.	Cost \$ <u>INCLUDED</u>	
Headlights	L.E.D.	Cost \$ <u>330.00</u>	
Heater (Auxiliary water)	Auxiliary fuel-fired heating systems. Refer to Washington State School Bus Specifications Manual, page 27.	Brand: <u>WEBASTO</u>	Model: <u>SCHOLASTIC</u>
		Cost \$ <u>2916.00</u>	
Noise Reduction	Exceeding minimum specifications.	Driver compartment	Cost \$ <u>110.00</u>
		Engine compartment	Cost \$ <u>INCLUDED</u>
		Full acoustical headliner	Cost \$ <u>864.00</u>
Retarder	Manufacturer's standard.	Driveline <input type="checkbox"/>	Cost \$ <u>N/A</u>
		Exhaust <input checked="" type="checkbox"/>	Cost \$ <u>444.00</u>
		Transmission <input checked="" type="checkbox"/>	Cost \$ <u>12816.00</u>
Seat Belt Ready Seat	3-passenger position seat with securement belts.	Cost \$ <u>558.00 PER SEAT</u>	
Seating System	Identical, non-lift bus with lap-shoulder seat belt system installed in all positions.	2 by 2 Cost \$ <u>9120.00</u>	
		Capacity <u>48</u>	
		3 by 2 Cost \$ <u>11430.00</u>	
		Capacity <u>63</u>	
		3 by 3 Cost \$ <u>14028.00</u>	
		Capacity <u>78</u>	

SERVICE OF WASHINGTON, INC.

State Price Quote Specification

**DISTRICT-SUPPORTED OPTIONS**

C60  C77  D60  D84

Use this document to bid both non-lift and lift buses.

ITEM	Vendor must meet or exceed these specifications. Item bid shall be specified in column to right.	VENDOR SPECIFICALLY IDENTIFY ITEM BID Price of items bid will establish the district cost.	
Storage Compartments	Largest available for unit bid.	Left-side <u>28.4</u> cubic feet. Cost \$ <u>1290.00</u> Right-side <u>28.4</u> cubic feet. Cost \$ <u>1290.00</u> Push-thru <u>122</u> cubic feet. Cost \$ <u>5406.00</u>	
Strobe Light	Exterior roof mounted white strobe light.	Mfr. <u>ECCO</u> Model No. <u>7460 LED CLEAR LENS</u> Cost \$ <u>167.00</u>	
Student Protection System—Installed	Electronic system to insure driver post-trip inspection of passenger compartment.	Mfr. <u>DORAN</u> Model No. <u>SLEEPING CHILD CHECK</u> Cost \$ <u>150.00</u>	
Suspension	Air ride (Air brake system only).	<b>Front</b> Cost \$ <u>1110.00</u>	<b>Rear</b> Cost \$ <u>1740.00</u>
Toolbox	Interior, manufacturer standard.	Cost \$ <u>64.00</u> Deduct \$ <u>N/A</u>	
Traction Device	Automatic chains.	Mfr. <u>ON SPOT</u> Cost \$ <u>2676.00</u>	
Traction Device	Sanders.	Capacity <u>100 LBS.</u> Cost \$ <u>2350.00</u>	
Transmission	Automatic—Allison, PTS 3000 or equal.	Mfr. <u>ALLISON</u> Model No. <u>3000 PTS</u> Cost \$ <u>INCLUDED</u>	
Vehicle Securement System	Must meet state specification.	Mfr. <u>BLUE BIRD</u>	Cost \$ <u>500.00</u>



SERVICE OF WASHINGTON, INC.

**State Price Quote Specification**  
**DISTRICT-SUPPORTED OPTIONS**

C60    C77    D60    D84

Use this document to bid both non-lift and lift buses.

ITEM	Vendor must meet or exceed these specifications. Item bid shall be specified in column to right.	<b>VENDOR SPECIFICALLY IDENTIFY ITEM BID</b> Price of items bid will establish the district cost.	
Video Camera Systems— Installed	Digital audio/video system for monitoring the passenger compartment with more than two cameras.	Mfr. <u>SEON</u> Model No. <u>TH-4</u> Cost \$ <u>1958.00</u> How many cameras <u>3</u>	
Video Camera Systems—Stop Sign Camera— Installed	Must meet state specification.	<b>Stand Alone System</b>	<b>Added to Interior System</b>
		Mfr. <u>SEON</u> Model No. <u>TH-4</u> Cost \$ <u>1440.00</u> How many cameras <u>1</u>	Mfr. <u>SEON</u> Model No. <u>TH-4</u> Cost \$ <u>354.00</u> How many cameras <u>1</u>
Warning Light Monitor	16 light monitoring system.	<b>Incandescent</b>	<b>LED Lights</b>
		Cost \$ <u>270.00</u>	Cost \$ <u>270.00</u>
Additional Wheelchair/Occupant Tie-down System—Installed	Must meet state specification.	Mfr. <u>Q-STRAINT</u> Model No. <u>Q-8106-L2</u> Cost per station \$ <u>456.00</u>	
Windows	Laminated passenger-compartment side or rear glass.	Side Cost \$ <u>2123.00</u> Rear Cost \$ <u>55.00</u> Both Cost \$ <u>2178.00</u>	
Windows	Tinted.	Cost \$ <u>INCLUDED</u>	
Windows	Thermal pane, left of driver and service door.	Cost \$ <u>306.00</u>	

Greenlots is a leading global provider of open standards based technology solutions for electric vehicle charging, local load control, and grid management. We provide TurnKey Solutions by offering a full suite of EV-related services from site assessment through installation, hardware sales and charge management, to maintenance to our customers. Greenlots is committed to future-proofing EV charging investments by employing the leading open standard for communications between charging stations and network management. Our OCPP-based network supports a robust set of payment, pricing, reporting, and access authorization methods while offering the largest number of equipment brands and models for maximum flexibility.

### EVSE Charging Rates and Times

Type	Output Factors	Power	Charge Rate <sup>1</sup>		Charge Time <sup>2</sup>	
			LEAF <sup>3</sup>	Bolt <sup>4</sup>	LEAF <sup>3</sup>	Bolt <sup>4</sup>
LV II	208/240VAC @ 16A	3.84kW	14.67 mc/h	13.31 mc/h	7.29 hrs	15.63 hrs
LV II	208/240VAC @ 30A	7.2kW	25.22 mc/h	24.96 mc/h	4.24 hrs	8.33 hrs
DCFC	400VDC @ 62.5A	25kW	95.54 mc/h	86.67 mc/h	1.12 hrs	2.4 hrs
DCFC	400VDC @ 120A	50kW	191.07 mc/h	173.33 mc/h	0.56 hrs	1.2 hrs

<sup>1</sup> Charge Rate is measured in miles of charge per hour (mc/h) and based on EPA estimated ranges.

<sup>2</sup> Times based on an empty battery.

<sup>3</sup> Nissan LEAF with 30kWh battery and EPA estimated 107 miles of range.

<sup>4</sup> Chevrolet Bolt with 60kWh battery and EPA estimated 208 miles of range.

### Hardware Catalog

Description	Make	RFID	Cell 3G	Credit Card	Gateway	Price	Installation <sup>5</sup>
LV II, 30A, Wall-Mount, Single-Port	Siemens	●	●	●	●	\$535	\$1,414
LV II, 30A, Pedestal-Mount, Single-Port	Siemens	●	●	●	●	\$1,015	\$1,525
LV II, 30A, Wall-Mount, Single-Port, Networked <sup>6</sup>	Siemens	●	●	●	●	\$1,075	\$1,414
LV II, 30A, Pedestal-Mount, Single-Port, Networked <sup>6</sup>	Siemens	●	●	●	●	\$1,555	\$1,525
LV II, 30A, Wall-Mount, Single-Port	EV Box	●	●	●	●	\$1,655	\$1,414
LV II, 30A, Pedestal-Mount, Single-Port	EV Box	●	●	●	●	\$1,825	\$1,525
LV II, 30A, Pedestal-Mount, Dual-Port	EV Box	●	●	●	●	\$3,354	\$1,879
LV II, 30A, Wall-Mount, Single-Port	EVSE, Inc	●	●	●	● <sup>7</sup>	\$2,275	\$1,414
LV II, 30A, Pedestal-Mount, Single-Port	EVSE, Inc	●	●	●	● <sup>7</sup>	\$2,685	\$1,525
LV II, 30A, Wall-Mount, Single-Port, Auto-Retract. Cable	EVSE, Inc	●	●	●	● <sup>7</sup>	\$3,095	\$1,414
LV II, 30A, Pedestal-Mount, Single-Port, Auto-Retract. Cable	EVSE, Inc	●	●	●	● <sup>7</sup>	\$3,505	\$1,525
LV II, 30A, Ceiling-Mount, Single-Port, Auto-Retract. Cable	EVSE, Inc	● <sup>8</sup>	●	● <sup>8</sup>	● <sup>7</sup>	\$3,746	\$1,525
LV II, 30A, Wall-Mount, Dual-Port	Efacec	●	●	●	●	\$5,502	\$1,414
LV II, 30A, Wall-Mount, Dual-Port	Efacec	●	●	●	●	\$6,020	\$1,414
LV II, 30A, Pedestal-Mount, Dual-Port	Efacec	●	●	●	●	\$5,771	\$1,879
LV II, 30A, Pedestal-Mount, Dual-Port	Efacec	●	●	●	● <sup>9</sup>	\$6,289	\$1,879
DCFC, 25kW, Ground-Mount, Dual Port	Efacec	●	●	●	● <sup>9</sup>	\$26,473	\$2,247
DCFC, 50kW, Ground-Mount, Dual Port	Efacec	●	●	●	● <sup>9</sup>	\$29,232	\$2,247
DCFC, 50kW, Ground-Mount, Dual Port	Schneider	●	●	●	●	\$30,361	\$2,247
DCFC, 50kW, Ground-Mount, Dual Port	Signet	●	●	●	●	\$31,304	\$2,247
Network Communication Box <sup>6</sup>	Siemens	●	●	●	●	\$3,200	
Access Gateway and Payment Kiosk <sup>7,8</sup>	EVSE, Inc	●	●	●	●	\$2,258	\$1,414

<sup>5</sup> Estimated installation cost for landing, mounting, connecting, and commissioning. Site development costs not included.

<sup>6</sup> EVSE requires purchase of communication box (\$3,200) for networking. One communication box can support up to 25 EVSE ports.

<sup>7</sup> If credit card terminal or gateway is desired, EVSE requires Gateway and Payment Kiosk (\$2,258). One kiosk can support up to 15 EVSE ports.

<sup>8</sup> Access gateway and Payment Kiosk required.

<sup>9</sup> EVSE uses an Ethernet router for gateway that can support up to three hardwired EVSE followers.



Siemens Pedestal



EV Box Pedestal



EVSE, Inc. Auto-Retract



EVSE Inc. Standard



Efacec Level II



Efacec QC20 DCFC



Efacec QC50 DCFC



Schneider DCFC



Signet DCFC

### Installation Estimates<sup>10</sup>

Item	Description	Unit	Cost
Site Assessment	Evaluate electrical/construction needs	Site	\$150
Electrical Load Study	Review Utility Bills, Amperage Load Calc., etc ...	Ea.	\$200
Locate On-Site Utilities	800 Dig Alert or Hand Dig to Expose	Ea.	\$125
Permit Package Preparation	Fill Out/File Forms and Documents	Ea.	\$150
Stamped Engineering Drawings	Single Line and Plot Plan	Ea.	\$500
Service to Property Upgrade - Trenching	Trench for U/G Service	ft.	\$33
New Panel	Install New Panel Within 5' of Existing	Ea.	\$1,000
Breaker(s)		Ea.	\$135
Transformer	100kVA Transformer	Ea.	\$10,095
Transformer	25kVA Transformer	Ea.	\$6,095
Transformer	15kVA Transformer	Ea.	\$4,095
ERT Meter and Set		Ea.	\$835
Wire - Electrical Upgrade	#250 MCM Cable	ft.	\$18
Wire - Panel to Disconnect		ft.	\$8.50
Disconnect	Up to 50A	Ea.	\$370
Wire - Disconnect to EVSE	#8 THHN Wire	ft.	\$2.50
Conduit - Directional Bore	Minimum 30'	ft.	\$55
Conduit - Trenching and Backfill		ft.	\$30.00
Conduit - Surface Mount		ft.	\$13.50
Procurement and Installation of Bollard	3" GRC (36" Above Ground/24" Below Ground)	Ea.	\$700
Procurement and Installation of Wheel Stops		Ea.	\$400
EV Parking Only Signage	Sign, Pole, and Footing	Ea.	\$200
Re-Stripe Parking Space	Minimum Charge	Ea.	\$600
EV Logo - Parking Space	Minimum Charge	Ea.	\$300

<sup>10</sup> List is not inclusive. Prices are estimates and can change based on market cost of materials and services. Customer will be provided with a line item estimate after a site visit.

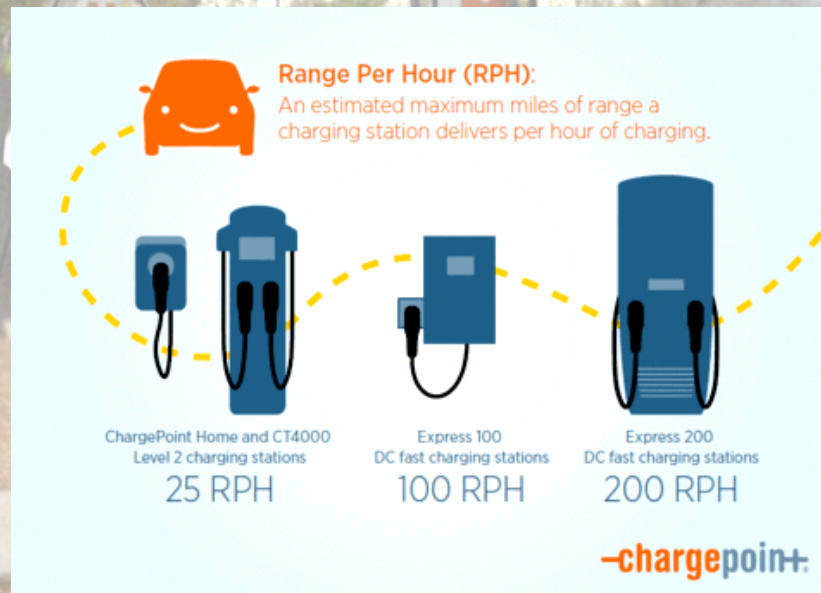


# We make it easy for you to get plugged in.

## Why choose Puget Sound Solar and Chargepoint?

- Expert siting and installation services - over 600 since 2010
- Proven robust hardware and support - over 30,000 installed
- Largest and best network - serving 77% of networked EVSE in U.S.
- Flexible access & revenue control; future-proof software updates

### *Some Things Are Better Than Others*





# EV SUPPORT A DIV. OF PUGET SOUND SOLAR

**EV Support** is a division of Puget Sound Solar LLC, which was founded in 2001, and has included battery-electric vehicles in its fleet since 2006. We installed our first Level 2 EVSE then for company use, and formed the EV Support division in 2009 to specialize in electric vehicle charging installations. Since then we have installed over 600 EVSE in Western Washington, we have five EVs in our fleet, and five charging station ports at our shop. In addition to installation, we also provide repair services for residential and commercial clients. More info at <http://www.evsupport.com>

**Chargepoint**, the hardware provider, has the largest EVSE network nationwide. Both wall mounted and bollard models are available in single and dual port units, and are distinguished by the clean cord management system. Level 2 Charging uses the universal J1772 plug, charging most cars in 2-4 hours. Charging with a DC Fast Charger takes about 30 minutes. Stations are networked via cloud-based software that allows access control, ability to set pricing (hourly, per session, and per kWh). Billing, 24/7 customer support, utilization reporting and management are handled through one ChargePoint log-in.

Level 2 (208-240V) 32V per Port	Days to delivery	PRICE \$	Basic Installation of EVSE- add'l site prep on Table 2	PRODUCT DESCRIPTION- <a href="http://www.chargepoint.com/products/commercial/">http://www.chargepoint.com/products/commercial/</a>
<b>CT4000 series- with RFID</b>				The CT4000 family is the latest generation of ChargePoint commercial charging stations. Refined yet rugged, these stations set the industry standard for functionality and aesthetics. <a href="http://www.chargepoint.com/products/commercial/ct4000/">http://www.chargepoint.com/products/commercial/ct4000/</a>
Model-CT4011-GW1	14	\$3,757.00	\$875.00	Gateway model, CT4011, 6' Bollard Single Port, 18' Cord
Model-CT4011	14	\$3,386.00	\$850.00	CT4011, 6' Bollard Single Port, 18' Cord
Model-CT4013-GW1	14	\$3,383.00	\$775.00	Gateway model, CT4013, 6' Bollard Single Port, 18' Cord
Model-CT4013	14	\$3,012.00	\$750.00	CT4013, 6' Wall Mount Single Port, 18' Cord
Model-CT4021-GW1	14	\$5,341.00	\$932.00	Gateway model, CT4021, 6' Bollard Dual Port, 18' Cord
Model-CT4021	14	\$4,970.00	\$903.00	CT4021, 6' Bollard Dual Port, 18' Cord
Model-CT4023-GW1	14	\$4,967.00	\$832.00	Gateway model, CT4023, 6' Wall Mount Dual Port, 18' Cord
Model-CT4023	14	\$4,596.00	\$803.00	CT4023, 6' Wall Mount Dual Port, 18' Cord
Model-CT4025-GW1	14	\$6,091.00	\$932.00	Gateway model. CT4025, 8' Bollard Dual Port, 23' Cord

Model-CT4025	14	\$5,720.00	\$903.00	CT4025, 8'Bollard Dual Port, 23' Cord
Model-CT4027-GW1	14	\$5,717.00	\$832.00	Gateway Model, CT4027, 8' Wall Mount Dual Port, 23'Cord
Model-CT4027	14	\$5,346.00	\$803.00	CT4027, 8' Wall Mount Dual Port, 23'Cord
<b>Model- CPF25-L18 (FLEET use Only)</b>	30	\$1,370.00	\$360.00	The CPF25 family of charging stations is designed for fleet applications. For fleets, CPF25 stations are ideally suited for depot charging, Single Port, Wall Mount, 5.4 m (18') Cord choose 18' or 23' Cord. <a href="http://www.chargepoint.com/products/commercial/cpf25">http://www.chargepoint.com/products/commercial/cpf25</a>
Model- CPF25-L18-PD	30	\$1,989.00	\$485.00	Single Port, Pedestal Mount
Model- CPF25-L18-PD-Dual (FLEET use Only)	30	\$3,421.00	\$560.00	Dual Port, Pedestal Mount
Model- CPF25-L18-CMK6 (FLEET use Only)	30	\$2,481.00	\$402.00	Single Port, Wall mount 5.4m Mount with Cord Management Kit
Model- CPF25-L18-CMK6-PD (FLEET use Only)	30	\$2,936.00	\$510.00	Single Port, Pedestal Mount, with Cord Management Kit
Model- CPF25-L18-CMK6-PD- Dual (FLEET use Only)	30	\$4,293.00	\$580.00	Dual Port, Pedestal Mount , with Cord Management Kit
<b>Level 3- DC Fast Charger (400-480V) with RFID</b>				Fast charging for short dwell time parking and freeway corridor locations. <a href="http://www.chargepoint.com/products/commercial/cpe100/">http://www.chargepoint.com/products/commercial/cpe100/</a> <a href="http://www.chargepoint.com/products/commercial/cpe200/">http://www.chargepoint.com/products/commercial/cpe200/</a>
DC Fast Charger- Model- CPE100 I-CMB Wall-mount	60	\$11,913.00	\$1,024.00	Single port, single connector, 25kW, Combo 1 connector, wall mount,
DC Fast Charger Model- CPE100 I-CMB Bollard-mount	60	\$13,532.00	\$1,124.00	Single port, single connector, 25kW, Combo 1 connector, Bollard mount
DC Fast Charger Model- CPE200T-S-CHD-CMB Bollard- mount (63A)	60	\$33,340.00	\$2,345.00	<b>Innovative features of the Express 200 include:</b> A 50kW output, with both CHAdeMO and SAE Combo Connector to serve all EVs with fast charging capabilities with a single charging station. <b>Form Factor:</b> At only 13 inches deep and one-third the weight of other dual connector DC stations, you'll have flexibility in installation and the price to ship and install is significantly lower.

Other Related Items				
Extended Warranty				
Options/Pricing	n/a	n/a	n/a	\$600/year prepaid or \$700/year paid annually
ChargePoint Card in Mailing				
Folders (RFID) - CT1000-CPCMF-CPI00K		\$5.00		Key Fob Size - Order in multiples of 50
EV Parking -Green		\$65		CT1000-SIGN1
No Parking except EV- Red		\$52		CT1000-SIGN2

**Site Preparation prices posted in Table 2**

<b>Table 2 Site Preparation- Add'l costs</b>	<b>Level 2- CT4000, CPF25- Bollard, Single Port</b>	<b>Level 2- CT4000, CPF25- Wall Mount, Single Port</b>	<b>Level 2- CT4000, CPF25- Bollard, Dual Port</b>	<b>Level 2 CT4000, CPF25-Wall mount, Dual Port</b>	<b>DC Fast Charger CPE100 Wall- mount</b>	<b>DC Fast Charger CPE100 Bollard</b>	<b>DC Fast Charger CPE200 - Bollard</b>
Basic Site Preparation with 30 L.F. EMT -wall & ceiling, each	\$664.00	\$664.00	\$854.00	\$854.00	\$1,244.00	\$1,244.00	\$2,566.00
Additional L.F. EMT - 1 Circuit per lineal foot	\$18.00	\$18.00	\$18.00	\$18.00	\$24.00	\$24.00	\$48.00
Additional L.F. EMT - 2 Circuit per lineal foot	\$28.00	\$28.00	\$28.00	\$28.00	\$32.00	\$32.00	\$64.00
Additional L.F. EMT - 3 Circuit per lineal foot	\$34.00	\$34.00	\$34.00	\$34.00	\$40.00	\$40.00	\$80.00
Additional L.F. EMT - 4 Circuit per lineal foot	\$56.30	\$56.30	\$56.30	\$56.30	\$60.00	\$60.00	\$120.00
Basic Site Prep with pad, 40 L.F. PVC -trench under landscape- e	\$965.00	n/a	\$1,055.00	\$1,055.00		\$1,534.00	\$2,151.00
Basic Site Prep with pad, 40 L.F. PVC -trench under hardscape-e	\$1,365.00	n/a	\$1,455.00	\$1,455.00		\$1,845.00	\$2,465.00
Additional L.F PVC in trench - hardscape - 1 circuit lineal foot	\$96.00	\$96.00	\$96.00	\$96.00		\$102.00	\$150.00
Additional L.F PVC in trench - hardscape - 2 circuit lineal foot	\$106.00	\$106.00	\$106.00	\$106.00			
Additional L.F PVC in trench - hardscape - 3 circuit lineal foot	\$110.00	\$110.00	\$110.00	\$110.00			
Additional L.F PVC in trench - hardscape - 4 circuit lineal foot	\$115.00	\$115.00	\$115.00	\$115.00			
Additional L.F PVC in trench - landscape - 1 circuit lineal foot	\$76.00	\$76.00	\$76.00	\$76.00	\$82.00	\$82.00	\$130.00
Additional L.F PVC in trench - landscape - 2 circuit lineal foot	\$86.00	\$86.00	\$86.00	\$86.00			
Additional L.F PVC in trench - landscape - 3 circuit lineal foot	\$90.00	\$90.00	\$90.00	\$90.00			
Additional L.F PVC in trench - landscape - 4 circuit lineal foot	\$95.00	\$95.00	\$95.00	\$95.00			
Additional pull box EMT each	n/a	\$45.00	n/a	n/a	\$45.00	n/a	n/a
Additional pull box PVC each	\$35.00	n/a	\$35.00	\$35.00	n/a	\$35.00	\$95.00
Sub panel + feeder - single phase each	\$894.00	\$894.00	\$894.00	\$894.00	\$894.00	\$894.00	\$894.00
Sub panel + feeder - three phase each	\$1,044.00	\$1,044.00	\$1,044.00	\$1,044.00	\$1,044.00	\$1,044.00	\$1,044.00
Add for high ceiling conduit run lineal foot	\$5.00	\$5.00	\$5.00	\$5.00	\$5.00	\$5.00	\$5.00
Add for concrete core drill each	\$75.00	\$75.00	\$75.00	\$75.00	\$75.00	\$75.00	\$75.00
CB: 3P 60A - 100A each	\$123.00	\$123.00	\$123.00	\$123.00	\$123.00	\$123.00	\$123.00
Disconnect switch each	\$225.00	\$225.00	\$450.00	\$450.00	\$450.00	\$450.00	\$550.00
Wheel stop each	\$85.00	\$85.00	\$85.00	\$85.00	\$85.00	\$85.00	\$85.00
Bollard each	\$425.00	\$425.00	\$425.00	\$425.00	\$425.00	\$425.00	\$425.00
Wayfinder sign and post each	\$155.00	\$155.00	\$155.00	\$155.00	\$155.00	\$155.00	\$155.00
Wayfinder sign on wall each	\$75.00	\$75.00	\$75.00	\$75.00	\$75.00	\$75.00	\$75.00
Parking space painting each	\$75.00	\$75.00	\$75.00	\$75.00	\$75.00	\$75.00	\$75.00



## SUMMARY

**Eligible Mitigation Action**  Appendix D-2 item (specify): Category 2: Class 4-8 School Bus, Shuttle Bus, or Transit Bus (Eligible Buses)

**Action Type**  Item 10-DERA Option (5.2.12) (specify and attach DERA Proposal):

**Explanation of how funding request fits into Beneficiary’s Mitigation Plan (5.2.1)**

The State of Washington Volkswagen Beneficiary Mitigation Plan outlines principles and priorities to guide the state’s selection and prioritization of projects to achieve Washington’s goal to:

- reduce emissions from diesel engines in the state where the 2.0 and 3.0 liter VW vehicles were, are, or will operate; and
- fully mitigate the total, lifetime excess NOX emissions of the subject vehicles.

Washington’s mitigation plan principles are to:

- Improve air quality for communities that have historically borne a disproportionate share of the air pollution burden in Washington.
- Maximize air quality co-benefits beyond nitrogen oxide reductions.
- Maximize public health benefits.

Washington’s mitigation plan priorities include:

- Accelerating adoption of electric vehicles, equipment, and vessels;
- Promoting electrification technologies in public transportation fleets;
- Accelerating fleet turnover to the cleanest engines;
- Achieving substantial additional emissions reductions beyond what would occur absent trust funding;
- Ensuring cost-effectiveness; and
- Leveraging additional matching funds.

Washington’s Beneficiary Mitigation Plan identifies investments in electric buses, including school buses, as a key opportunity for mitigation fund investments. This action aims to reduce emissions from on-road sources by providing grant funds to support school districts in purchasing electric school buses and associated charging infrastructure. School buses generate toxic emission that expose both the public and school children, one of the most sensitive and vulnerable populations.

**Detailed Description of Mitigation Action Item Including Community and Air Quality Benefits (5.2.2):**

Ecology will offer school districts based in Washington the opportunity to compete for funding to scrap and replace pre-2007 publicly-owned diesel school buses with all-electric buses, reducing toxic diesel emissions. Ecology used the Washington Tracking Network’s (WTN) “Diesel and Disproportionately Impacted Communities” Index to identify and locate communities that have historically borne a disproportionate share of the air pollution burden in

Washington. Ecology identified 14 priority counties: Benton, Clallam, Clark, Cowlitz, Franklin, King, Lewis, Pierce, Skagit, Snohomish, Spokane, Thurston, Whatcom and Yakima. These counties contain about 85% of the state’s population, 83% of the violating vehicles, and 100% of Washington’s disproportionately impacted population. The “Disproportionately Impacted Communities” include those census tracts in the top 20th percentile for exposure to diesel emissions and the following five socioeconomic factors: limited English, unaffordable housing, no high school diploma, population living in poverty, and unemployment.

Ecology expects to replace approximately 30-40 diesel school buses in this first phase of funding and anticipates the transit bus program will draw approximately 13 million, or 12% of the total available funds, from the Washington allocation. Ecology estimates the program will mitigate 43 tons of lifetime NOx emissions, 21,666 tons of lifetime CO2 emissions, plus a reduction in toxic diesel particulates. This mitigation action will directly reduce impacts to children who are particularly vulnerable to negative health effects associated with diesel exhaust exposure. The project will reduce emissions in densely populated, high-traffic areas providing great public health benefits to local communities.

**Estimate of Anticipated NOx Reductions (5.2.3):**

This action will reduce 9 tons of lifetime NOx emissions.

**Identification of Governmental Entity Responsible for Reviewing and Auditing Expenditures of Eligible Mitigation Action Funds to Ensure Compliance with Applicable Law (5.2.7.1):**

Washington Department of Ecology

**Describe how the Beneficiary will make documentation publicly available (5.2.7.2).**

As stated in response to paragraph #7 in Attachment A of Washington’s Appendix D-3 filing, Ecology will make documents and records submitted in support of funding requests and documents and records supporting expenditures of trust funds available to the public through an application, system, or library on the agency's website at [ecology.wa.gov](http://ecology.wa.gov). Easy-to-use functionality will be incorporated as much as possible to ensure unburdened, public access to project documentation and other pertinent mitigation fund information.

**Describe any cost-share requirement to be placed on each NOx source proposed to be mitigated (5.2.8).**

Mitigation Funds will provide up to \$325,000 to scrap and replace pre-2007 diesel school buses or engines with all-electric. Up to \$50,000 of the \$325,000 may be used for charging infrastructure. Grant recipients will provide the balance of the purchase cost, which Ecology estimates to be approximately \$122,351, or about 25% of the total cost. Ecology estimates the total time from bus order to bus delivery could take from 9 – 18 months. As such, we anticipate replacements in 2020 and 2021.

**Describe how the Beneficiary complied with subparagraph 4.2.8, related to notice to U.S. Government Agencies (5.2.9).**

On February 27, 2018, Washington Department of Ecology contacted the U.S. Department of Interior, U.S. Department of Agriculture, U.S. Forest Service, U.S. Fish and Wildlife Service, and National Park Service, via email to notify them of the availability of Washington State's Volkswagen Mitigation Action Funds. The notice included a link to the State Trust agreement and attachments; a link to Ecology's procedures for review, consideration, and written determination for each request of funds; and instructions to subscribe to the Washington Department of Ecology's listserv to receive up-to-date information, if desired.

**If applicable, describe how the mitigation action will mitigate the impacts of NOx emissions on communities that have historically borne a disproportionate share of the adverse impacts of such emissions (5.2.10).**

Ecology used Washington Tracking Network's (WTN) "Diesel and Disproportionately Impacted Communities" Index to identify and locate communities that have historically borne a disproportionate share of the air pollution burden in Washington. The "Disproportionately Impacted Communities" include those census tracts in the top 20th percentile for exposure to NOx and other diesel emissions and five socioeconomic factors: limited English, income spent on housing, no high school diploma, population living in poverty, and unemployment. Ecology will prioritize investing settlement funds in areas that improve air quality for disproportionately impacted communities. High-traffic transportation corridors and urban population centers, especially those with and near ports and industrial facilities will provide the greatest opportunity for Washington to achieve its mitigation plan goal, principles and priorities. Strategic deployment of electric school buses could improve air quality and public health in communities that have historically borne an undue share of the air pollution burden. In addition, the program will reduce emissions that directly affect children riding school buses, alleviating negative health affects for a sensitive population.