

**To: Interstate Bridge Replacement Committee**  
**From: Sam Churchill, Hayden Island**  
**Re: High Speed Charging for Commercial Vehicles**  
**Date: June 11, 2021**

Dear Committee Members:

**TriMet recently purchased five Gillig electric buses from a \$2.29 million grant, using FTA's Low or No Emission (Low-No) Grant Program. Vancouver's C-Tran also bought eight of the same model to replace their fleet's oldest diesel models.**



<https://www.transit.dot.gov/funding/grants/lowno>

<https://youtu.be/JzYtpcrIFa8>

**Tri-Met also ordered five *New Flyer* electric buses with a \$3.4 million federal grant. New Flyer (45%) and Gillig (31%) are the two largest transit bus manufacturers in North America.**

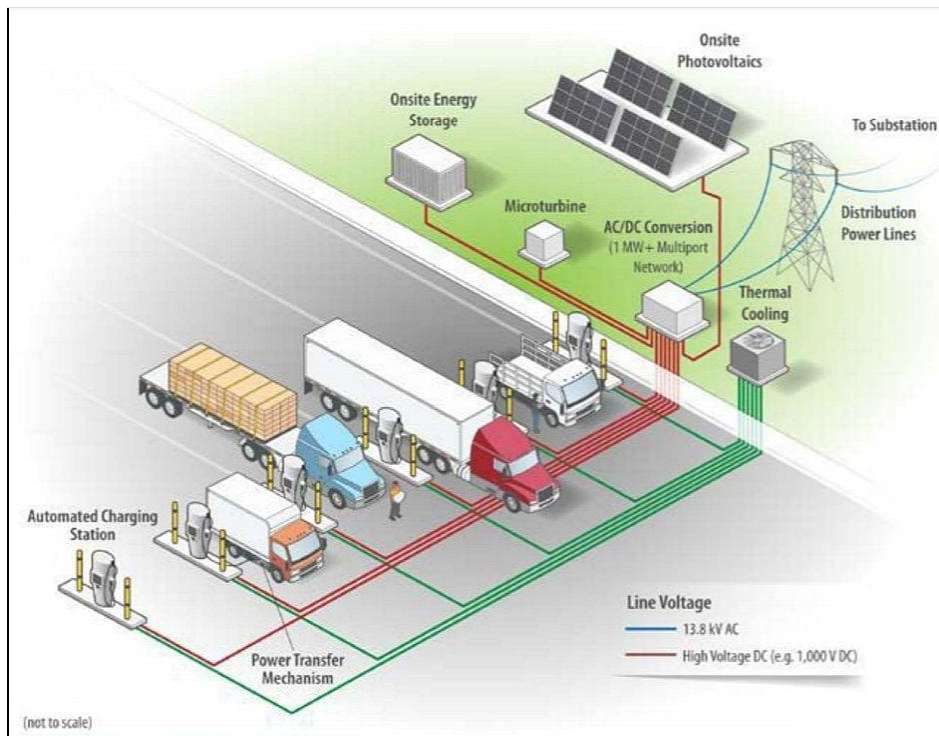
A Megawatt charge station (for trucks and buses) could tap into millions in "free" federal grants. Hayden Island and Daimler seem perfectly positioned.

**Daimler's facility on Swan Island is PIONEERING megawatt charging systems for trucks and buses. An 80% charge takes less time than grabbing a Denny's special.**



Amazon NEEDS Megawatt charge stations. ALL truckers will need them soon. Freightliner's eM2 truck has 315-kw/hr battery with a 230 mile range. It might be charged every 100 miles or so.

**Daimler Trucks of North America**, is headquartered on Swan Island. They built the first publicly accessible fast-charging station for electric semis, school buses, and heavy-duty trucks. It's ready to go. It provides an order of magnitude greater power and speed than today's passenger-vehicle fast-charging stations.



**Is there a \$3-5 million grant waiting for a Megawatt electric truck/bus charger? Sure.** The [West Coast Clean Transit Corridor Initiative](#) recommends technology, electric service partners and where to locate charging infrastructure.

[Manheim on the far west side of Hayden Island](#), might be a good location. **They ALREADY HAVE 200 Kilowatts of solar installed** on their roof. Do they **REALLY** want to fight five years of bridge construction? I think not.



**The world's first 200 KW, solar-assisted Megawatt bus and truck charger could be ours.**

- Any electrified VW microbus can get you around town or deliver a package.
- Both Republicans and Democrats may increase the gas tax as they try to strike a bipartisan infrastructure deal this month.
- Washington State's "Clean Cars 2030" bill will allow ONLY vehicles driven solely by electric motors to be sold after 2030.

**Let's electrify trucks and buses. Right here. Right now.**

*Sam Churchill*

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*Portland, OR 97217*

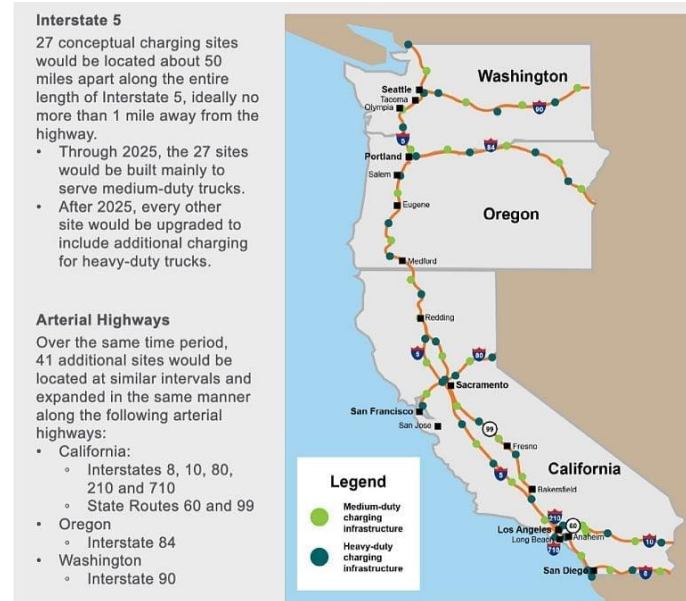
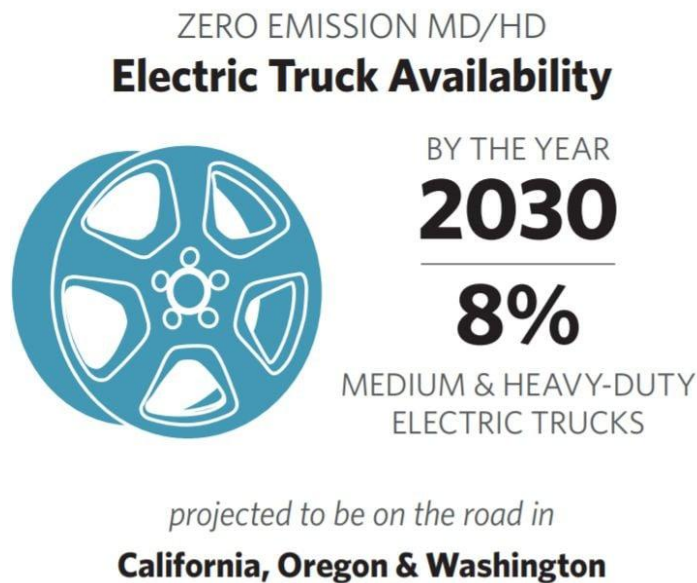
Here are some related links:

<https://trimet.org/electricbuses>

[https://en.wikipedia.org/wiki/C-Tran\\_\(Washington\)](https://en.wikipedia.org/wiki/C-Tran_(Washington))

[https://en.wikipedia.org/wiki/New\\_Flyer\\_Xcelsior](https://en.wikipedia.org/wiki/New_Flyer_Xcelsior)

<https://en.wikipedia.org/wiki/Gillig>



<https://www.gillig.com/post/trimet-brings-new-type-of-electric-bus-to-the-road-toward-a-clean-energy-bus-fleet>

<https://blog.trimet.org/2021/03/18/electric-buses-update-lots-of-progress-some-challenges/>

<https://www.columbian.com/news/2021/jun/10/c-tran-charges-ahead-with-electric-buses/>

[https://www.greencarreports.com/news/1132019\\_first-charging-station-electric-semis-mega-watt-fast-charging](https://www.greencarreports.com/news/1132019_first-charging-station-electric-semis-mega-watt-fast-charging)

<https://www.hdrinc.com/portfolio/west-coast-clean-transit-corridor-initiative>

[https://cleancities.energy.gov/files/u/news\\_events/document/document\\_url/525/ANL\\_Clean\\_Cities\\_MW\\_plus\\_WhatsAhead\\_Jan7\\_2020.pdf](https://cleancities.energy.gov/files/u/news_events/document/document_url/525/ANL_Clean_Cities_MW_plus_WhatsAhead_Jan7_2020.pdf)

<https://busmag.com/wp-content/uploads/2018/05/Electric-April.pdf>

[https://hayden-island.net/wp-content/uploads/2015/12/microgrid\\_proposal.pdf](https://hayden-island.net/wp-content/uploads/2015/12/microgrid_proposal.pdf)