

**From:** [Kris Nelson](#)  
**To:** [SENR Exhibits](#)  
**Cc:** [Ken Dragoon](#); [Chad Stokes](#)  
**Subject:** SB 1530 testimony: proposed amendment: transportation electrification  
**Date:** Friday, January 31, 2020 1:58:28 PM

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Honorable Chair,

While this bill includes language to support development of “transportation electrification,” it omits a proper definition that includes use of fuel cell electric vehicles.

Infrastructure for use of fuel cell hybrid electric vehicles is fast emerging nationwide.

On behalf of the Portland-based Renewable Hydrogen Alliance ([www.renewableh2.org](http://www.renewableh2.org)), we propose an amendment to SB 1530 that defines transportation electrification to include hydrogen fuel cell electric vehicles (FCEVs) where the hydrogen is derived from renewable electricity.

Please consider adding this definition to SB 1530 to clarify the use of this undefined term:

**SECTION 45. Definitions. As used in sections 45 to 53 of this 2020 Act:**

**“Transportation electrification” means use of zero emission vehicles and zero emission vehicle refueling infrastructure including renewable hydrogen fueling infrastructure for fuel cell electric vehicles.**

**SECTION 93. (1) As used in this section:**

- a. **“Transportation electrification” has the meaning given that term in section 45 of this 2020 Act.**

California has 43 hydrogen fueling stations, serving some 7,000 light duty vehicles. There are 25,000 hydrogen fuel cell forklifts and additional material handling applications now being deployed. Toyota and Nikola are delivering long-haul heavy duty (Class 8) trucks now under manufacture and a few are now on the roads. There are about 50 fuel cell transit buses deployed in the US. Hydrogen buses are one-for-one replacements for diesel buses with similar range and refueling characteristics.

It is likely that by this time in 2021 there will be at least one facility producing hydrogen from renewable electricity and at least one retail hydrogen fueling station in the Portland/Vancouver area. Eugene Water & Electric Board and NW Natural are engaged in developing facilities for producing hydrogen from renewable electricity. Nikola Motors expects to deploy hundreds of retail hydrogen fueling stations around the country based solely on electrolytic hydrogen.

Thank you for your sincere consideration of this proposed amendment.

Sincerely,

Kris Nelson  
Chair, Oregon Policy Subcommittee  
**Renewable Hydrogen Alliance**  
[www.renewableh2.org](http://www.renewableh2.org)