

**Renewable Hydrogen Alliance Oregon Legislative Concept Drafts
Legislative Session 2023**

Renewable and green electrolytic hydrogen are a key solution to decarbonizing the most hard-to-electrify and/or the most hard-to-decarbonize sectors such as long-term energy storage, transportation, and industrial processes. The following three legislative concepts are initial steps that would allow Oregon to meet its ambitious clean energy and decarbonization goals by incorporating renewable and green electrolytic hydrogen as an additional compliance instrument in the State’s toolbox.

Energy	<p>Problem: Many industries, governments and institutions of public health and safety rely on back-up generators to ensure continuity of operations. Nearly every generator for this purpose is fueled by diesel with significant environmental hazards.</p> <ul style="list-style-type: none"> ➔ Establish grant fund to transition away from diesel backup power. Help acquire and replace diesel standby (backup) power generation systems with renewable or green electrolytic hydrogen fueled generators. Criteria: Prioritize public emergency shelters and infrastructure; hospitals; utilities. ➔ Establish State hydrogen goals. As a follow on to forthcoming ODOE Renewable Hydrogen Study (2022), require ODOE to develop hydrogen production, energy storage and infrastructure planning goals and incorporate them into an updated State Energy Strategy.
Transportation	<p>Problem: Projects associated with the fueling infrastructure needed for hydrogen propelled transportation are capital intensive. The costs of which are unlikely to be borne by the private sector although public private partnership remain viable. Likewise, ODOT’s Hydrogen Pathway Study (2022) indicated a need to ensure breaking down statutory or regulatory barriers to building a pathway for fuel cell electric transportation in Oregon. Yet, the work of evaluating present Oregon regulations for barriers is left undone.</p> <ul style="list-style-type: none"> ➔ Create a \$25 million grant program for hydrogen fuel cell electric vehicle (FCEV) and hydrogen fueling demonstrations. Support and encourage in-state entities to plan and develop hydrogen transportation demonstration projects. Criteria: Prioritize demonstration projects that reflect the entirety of the hydrogen ecosystem, from hydrogen production to delivery, storage and dispensing at public or private hydrogen stations and fleet utilization ranging from ports to commercial trucks, buses and private vehicles. ➔ Have ODOT evaluate existing statewide regulations and processes to ensure there are no obstacles to FCEV deployment or hydrogen fueling infrastructure siting. Potential topics include: Evaluation and recommendations with regard to the use of hydrogen as a transportation fuel in Oregon, without any restrictions relative to transport through tunnels, bridges, or ferries; verification that there is a transparent and streamlined permitting process for hydrogen fueling stations as well as for fuel cell vehicle maintenance bay conversions; confirmation that existing MDV/HDV length or weight restrictions do not preclude or hamper hydrogen FCEV adoption. ODOT should review Oregon statutes for recommendations on statutory changes to include FCEVs within relevant definitions of zero-emission vehicles, alternative fuel vehicles or electric vehicles.