

Washington State Office of Renewable Fuels

State agency leadership to advance a
green hydrogen economy

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Washington State
Department of
Commerce

We strengthen communities



HOUSING AND
HOMELESSNESS



INFRASTRUCTURE AND
BROADBAND



SMALL BUSINESS
ASSISTANCE



ENERGY



PLANNING AND TECH
ASSISTANCE



COMMUNITY SERVICES



CRIME VICTIMS AND
PUBLIC SAFETY

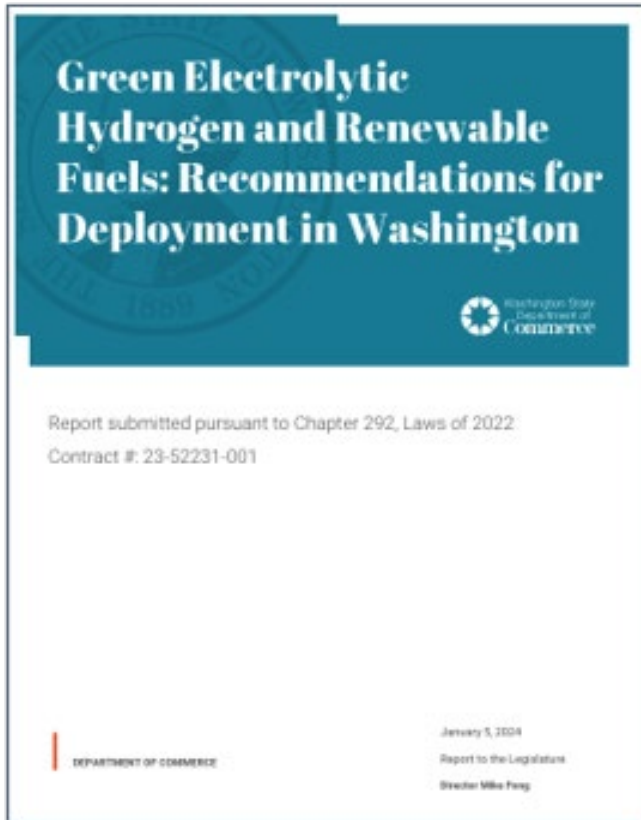


ECONOMIC
DEVELOPMENT

Statewide Office of Renewable Fuels

- Established at the Department of Commerce under RCW [43.330.565](#)
- Scope: Renewable and green electrolytic hydrogen, and alternative jet fuel
- Purpose: To leverage, support, integrate with other state agencies to:
 - **Accelerate comprehensive market development** with assistance along the entire life cycle of renewable fuel projects;
 - Support **research into and development and deployment of renewable fuel** and their production, distribution, and use;
 - **Drive job creation** and improve economic vitality in the transition to clean energy;
 - Further the development and use of **alternative jet fuels**;
 - **Enhance resiliency** by using renewable fuels, alternative jet fuels, and green electrolytic hydrogen to support climate change mitigation and adaptations; and
 - **Partner with overburdened communities** to ensure communities equitably benefit.

Washington policy landscape



Data gathering and analysis

- (2024) [Green Electrolytic Hydrogen and Renewable Fuels: Recommendations for Deployment in Washington](#)
- (2025) [PNW Low-Carbon Hydrogen Analysis](#)

Legislative action

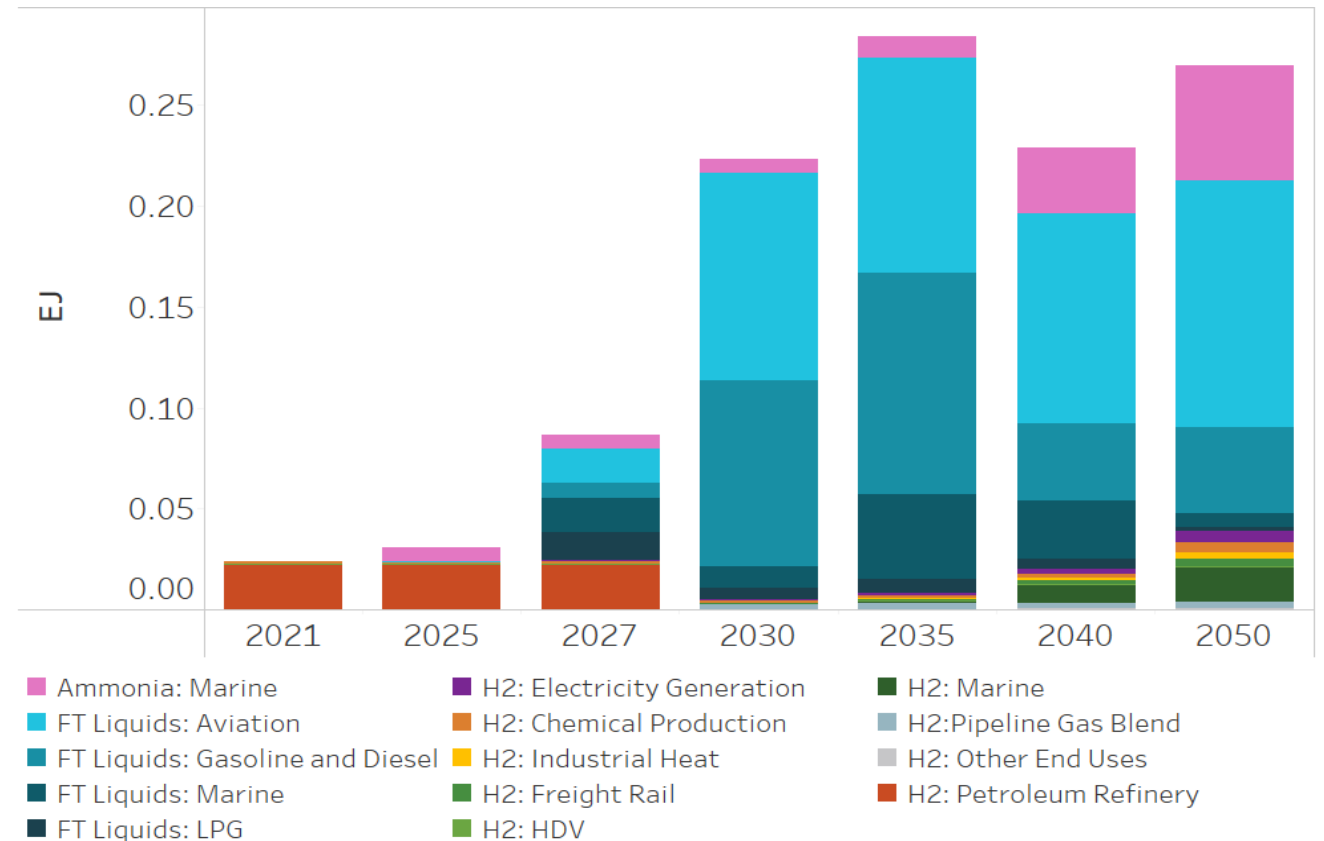
- Chapter 82.89 RCW – establishes retail sales and use tax deferral program for investments in eligible green and renewable hydrogen and clean fuel production projects
- RCW 54.04.190 & RCW 81.104.240– authorizes public utilities and transit agencies to produce, sell, and use green and renewable H2
- RCW.43.21C.535 – directs Department of Ecology to complete Programmatic Environmental Impact Statement (PEIS) for green hydrogen facilities

Funding

- PNWH2 planning (\$2M) and match (\$20M)
- Clean Energy Fund grants (including H2 fueling infrastructure, backup power)

Hydrogen demand in Washington

- State expects **significant growth** in green and renewable hydrogen demand between now and 2050
- Demand is expected to span a variety of sectors
 - **Near-term:** Displacing fossil-derived hydrogen in oil refining
 - **Mid-term:** Production of hydrogen-derived clean fuels
 - **Long-term:** Clean fuels & direct use of hydrogen for peak power decarbonization, industrial heat, and in rail/heavy duty vehicles



Recent achievements



PNW Low-Carbon Hydrogen Analysis

Released July 2025

Objective: Conduct a study examining the hydrogen policy, regulatory, and industry ecosystem in British Columbia and Washington State, engage key stakeholders and Tribal/First Nations to understand opportunities and challenges to growth of a regional low-carbon hydrogen market, and identify areas where WA and BC can better align to make it easier to move hydrogen products, technologies, and business interactions across the border.

Key Elements

- Engagement with industry, tribes/First Nations, academia, government, etc.
- Jurisdictional scan
- Regional low-carbon hydrogen supply and demand analysis
- Assessment of regional strengths and alignment opportunities
- Cross-border case studies
- Key findings and recommendations

Links

- [PNWER press release](#)
- [Webpage](#)
- Full report: [Pacific Northwest Low-Carbon Hydrogen Analysis \(PDF\)](#)



Technical Assistance Program



Funded through 2025-27 Operating Budget (ESSB 5167) to be implemented by June 30, 2027

Objective: Support uptake of clean hydrogen in strategic end uses across Washington by providing technical assistance to prospective end users.

Initial ideas:

- Support geared towards public benefit agencies (transits, public utilities), tribal nations, industrial partners
- Partner with technical support provider(s) to provide deep support for a set of participants throughout the program period
- Elevate insights, findings, and outcomes of technical support in public-facing tools, resources, and case studies

Next Steps:

- Request for Information to be released this fall
- Continued engagement and research to scope program

State, regional and national
leadership





Hydrogen and renewable fuels engagement across the economy

- Multi-agency coordination to support successful hydrogen deployment – permitting, hydrogen fueling infrastructure, credits
- State and regional hydrogen and fuel analyses – PNW hydrogen, SAF feedstock analysis
- WA Alternative Jet Fuel work group – statewide policy, R&D
- Sustainable maritime fuels – public-private collaboration
- National projects – hydrogen workforce development (H2Skills)
- Federal programs – Pacific Northwest Hydrogen Hub (PNWH2) application and ongoing work



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Thank you!

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