

Express Ranch Hydrogen

Green hydrogen facility to decarbonize heavy-duty on-road and off-road transportation

NovoHydrogen (“Novo”) is partnering with an industrial customer to supply green hydrogen for decarbonizing off-road heavy-duty transportation in Baker County, OR. The project will also serve heavy duty fleets from a convenient refueling location along I-84 that will connect to additional Pacific Northwest Hydrogen Hub (“PNWH2”) refueling throughout the broader region.

Project summary

Novo will own and operate a green hydrogen production facility at an industrial customer’s operations in Eastern Oregon. The Express Ranch project was included as part of the PNWH2, which was selected for funding through the Department of Energy’s Regional Clean Hydrogen Hubs Program (“H2Hubs”). Express Ranch is known as Node 5 of the PNWH2. The project involves installing ~4MW of electrolyzers to support ~864 kg/day of green hydrogen. Under a long-term hydrogen purchase agreement, an industrial customer will use the green hydrogen to decarbonize its fleet operations. Novo will also develop an open access green hydrogen refueling station along I-84 as part of a broader open access refueling station network to supply green hydrogen for decarbonizing trucking fleets along the route, for which we are currently securing offtake.



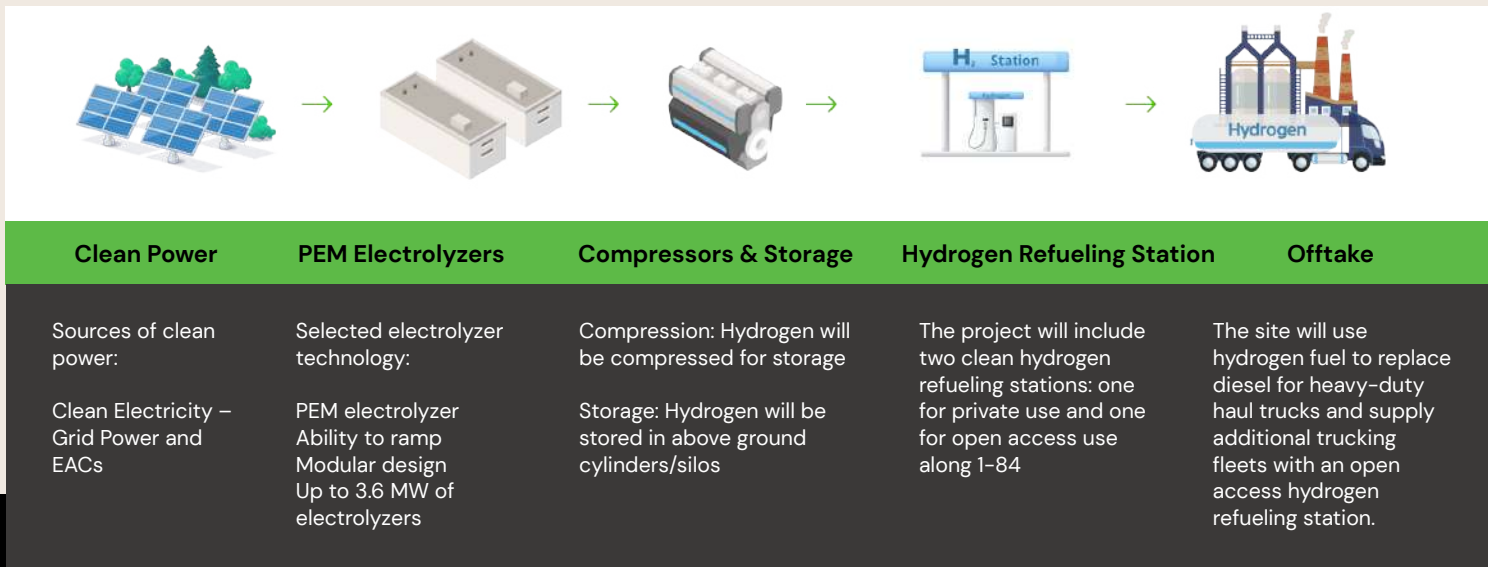
Project details

Facility location:	Baker County, OR
Facility concept:	Hydrogen production facility at an industrial facility in Eastern Oregon along with an open access refueling station to service fleets along I-84 and I-5 refueling network
Hydrogen production:	~864 kg/day with up to 750 kg/day available for open access station refueling
Source of power:	Grid-sourced clean electricity that qualifies our green hydrogen for the Section 45V production tax credit
Commercial status:	The Express Ranch project was included as part of the PNWH2, which was selected for funding through the Department of Energy’s Regional Clean Hydrogen Hubs Program (“H2Hubs”) and signed a subrecipient agreement with the Pacific Northwest Hydrogen Hub. A portion of offtake is under an executed HPA for off-road heavy-duty transportation.
Expected Commercial Operations Date:	2028

The open access hydrogen refueling station will be strategically located along I-84 in Eastern Oregon, which was designated as a Federal Highway Administration (“FHWA”) alternative fueling corridor. Novo is currently negotiating green hydrogen fuel supply agreements with heavy-duty trucking fleets that operate along route I-84 and the broader Pacific Northwest Region up to Portland, OR and the broader I-5 corridor. Novo is also developing a green hydrogen project and open access refueling station in Tacoma,

Washington, known as Grit City Hydrogen, and collaborating with other nodes in the PNWH2 Hub to develop this broader refueling network. A key benefit of the PNWH2 hub participation is the ability to connect fleets with additional refueling locations throughout the hub and broader region. Trucking fleets can monetize additional benefits by trading credits on a Clean Fuels Program (“CFP”) marketplace. Oregon’s CFP calls for a 10% reduction in the carbon intensity (“CI”) of transportation fuel from 2015 levels by 2025, followed by a 20% reduction by 2030 and 37% by 2035. Through the CFP, owners of clean fuels can create additional revenue streams by selling credits to other fleets for compliance. In 2023, credits were sold for over \$120 per metric ton of CO2 reduced, which can reduce the price of green hydrogen by over \$1/kg. The program provides further upside and allows us to provide our green hydrogen fuel at the most competitive price on the market.

Our team is always available to answer any questions regarding this project.
Please reach out to expressranch@novohydrogen.com for more project information.



Impact

✓ GHG Emissions and Pollution Reduction

The project will reduce over 2,000 metric tons CO2 per year and improve local air quality by replacing diesel fuel with hydrogen in heavy-duty haul trucks and other heavy-duty fleets that use the open access refueling station.

✓ Stakeholder Engagement

The Novo team has begun engagement with academic institutions, public officials, environmental groups, labor unions, and other community engagement organizations to provide full transparency for the project to ensure it benefits the community. Node 5 has engaged the Baker County Commissioner Chair, the Eastern Oregon Workforce Board, the Baker County Chamber of Commerce, and the OR Office of Workforce Investments to introduce the project and discuss the preliminary activities of Phase 1. The Project will soon be engaging the several state and regional colleges and labor unions to support local workforce development and aims to execute a Project Labor Agreement in the later development phases.

✓ Job Creation

The project will create hundreds of jobs from the necessary construction of the plant and multiple long-term operational jobs for the surrounding community. Novo will be implementing a Project Labor Agreement and ensuring prevailing wage rates are met.

✓ Open Access Refueling Station

Novo will include an open access clean Hydrogen Refueling Station along I-84 designated as an FHWA alternative fueling coordinator. This will weave into the broader hydrogen refueling network for convenience and sustainability.

About NovoHydrogen

NovoHydrogen (Novo) is a U.S.-based green hydrogen project developer combining renewable energy and oil & gas expertise. The company develops and supplies green hydrogen to help decarbonize industrial, transportation, and power sectors. Novo manages the entire project lifecycle from origination through operations, offering both onsite hydrogen production using renewable-powered electrolyzers and offsite production with reliable delivery to customer locations.