

Hydrogen energy storage reykjavik

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Qair is partnering with Orkan in Iceland to develop a solution enabling hydrogen transportation across the entire country with zero carbon emissions. In 2023, we acquired a 50% share in 'slenska vetnisf'lagi', a subsidiary of Orkan specializing in hydrogen refuelling stations. We are now planning to open new stations by 2025 to cover the main transportation hubs across Iceland. To supply the stations, our team is developing a 5 MW hydrogen electrolyser powered by our own wind farms and a baseload from the national grid (99.9% renewable).

By 2026, 'slenska vetnisf'lagi' is set to develop an integrated production and distribution system for green hydrogen along the entire Ring Road of Iceland. Two existing hydrogen refuelling stations in Reykjav'k will be supplemented by four new stations: one in Reykjavik and three others in the strategically-positioned locations of Akureyri, Egilssta'ir and Freysnes. The longest distance between stations will be approximately 380 km, making it possible to drive around Iceland while emitting only water vapour and no harmful emissions.

To supply hydrogen fuel to the stations, we are developing a pilot 5 MW electrolyser at a facility in the industrial port of Grundartangi just north of Reykjavik. Within the next few years, this site will house our large-scale hydrogen production plant to meet the expected increase in hydrogen demand across Iceland.

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Reykjavik, 6 September 2023 - Qair, a European renewable energy producer, announces its acquisition of a 50% stake in 'slenska vetnisf'lagi', a subsidiary of Orkan, the only provider of hydrogen refueling solutions in Iceland. Along with the development of its green hydrogen production project in Grundartangi, this strategic move will enable Qair to expand its presence in the Icelandic market and to support the country's ambitious transition to a more sustainable future.

6 green hydrogen stations around Iceland

Together through a joint venture Qair and Orkan intend to develop a pilot hydrogen infrastructure project, a pioneering model that could be replicated in other countries. With 2 hydrogen refuelling stations for trucks and passenger cars already in operation in the greater Reykjavik area, the 'slenska vetnisf'lagi' project will commission 4 new stations within the next couple of years in Reykjavik, Akureyri, Egilssta'ir and Freysnes, and develop an integrated distribution and production system to service these stations.

Driving around Iceland while emitting only water vapor and no harmful emissions will become a reality by

2026, thanks to Íslenska Vetrnisfélagsins refuelling stations network offered for hydrogen-powered vehicles along the whole Ring Road of Iceland, with the longest distance between stations amounting to approximately 380 km.

"We are happy to join forces with Orkan, the first distributor of hydrogen for commercial mobility in the world. The company has a fully developed network of gas stations in Iceland which makes it a very interesting partner says Tryggvi Thor Herbertsson, Chairman of Qair Iceland. This new hydrogen infrastructure project will position Iceland as the first country in the world to enable hydrogen transportation across its entire territory with zero carbon emission."

Local Green Hydrogen production in Grundartangi

To supply the stations, Íslenska Vetrnisfélagið will develop a 5MW hydrogen electrolysis project in Grundartangi, one of Iceland's leading industry areas. The site has already been secured by Qair as a part of a larger electrolysis project and the legally required environmental assessment has started.

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