

Logan Energy has been awarded a £1.6 million contract by Translink

Scottish based Logan Energy has been awarded a £1.6 million contract by NI Translink to design and supply one of the largest capacity hydrogen refuelling stations ever built in Europe.

The fleet of 20 purpose-built hydrogen fuel cell buses are being introduced alongside a number of new battery electric vehicles, and will see Translink operating the fourth largest zero emission bus fleet in any UK region as it targets an entire zero-emission public transport fleet for Northern Ireland by 2040.

Logan, which has an impressive track record in delivering integrated hydrogen technologies, will maintain the refuelling station for up to 15 years and support ambitions to increase the number of vehicles using the site.

The refuelling station will have the capacity to dispense a minimum of 2,500 kg of green hydrogen a day, which will allow Translink to increase its fuel cell bus fleet in the future without the need to modify the refuelling station.

More info can be found here:

<https://www.irishnews.com/business/2021/07/02/news/scottish-firm-to-build-1-6m-belfast-hydrogen-refuelling-station-for-translink-2373072/>

Hydrogen power plant for the garden?

The idea is that private customers will, in the future, be able to produce the hydrogen they need using small wind turbines.

First, the team is focusing on sourcing the energy needed for hydrogen production. The cooperation partners are currently developing a small and efficient wind power plant to do this. Second, the team is busy looking at how to store this valuable gas. To this end, they are producing new types of hydrogen tanks made of fiber-reinforced composites.

“The intention is to design the wind turbine small enough to allow private individuals to have a system like this in their garden,” explains Holger Seidlitz. “The hydrogen will be generated in-situ in a small electrolyzer and stored in the tank. It can then, for example, drive a fuel cell inside the house that produces heat and power at the same time. And owners of hydrogen-powered cars will, in the future, be able to refuel their vehicle at home. The real key to the concept is that the entire system is designed to be small, yet extremely efficient”

More info can be found here:

<https://www.fraunhofer.de/en/pres/s/research-news/2021/may-2021/hydrogen-power-plant-for-the-garden.html>

Green Hysland

GREEN HYSLAND aims to deploy a fully-functioning Hydrogen (H₂) ecosystem in the island of Mallorca, Spain, turning the island into Europe's first H₂ hub in Southern Europe. This will be achieved by producing green hydrogen from solar energy and delivering it to the end users, such as the island's tourism, transport, industry and energy sectors, including gas grid injection for green heat and power local end-use.

The project will also deliver a roadmap towards 2050 that compiles a long-term vision for the development of a widespread H₂ economy in Mallorca and the Balearic Region, in line with the environmental objectives set for 2050.

Demonstrations will provide Europe with a blueprint for decarbonization of island economies, and an operational example of the contribution of H₂ towards the energy transition and the 2050 net zero targets.

More info can be found here:

<https://greenhysland.eu/>