

PRESS INFORMATION: „Hy2B starts green hydrogen production in Bavaria from 2023“

Hy2B Hydrogen GmbH commissions plant construction and technology procurement for the electrolyzer of the HyPerformer region HyBayern in Pfeffenhausen, Bavaria.

Hy2B Hydrogen GmbH - with its shareholders Hynergy Invest GmbH, BayWa AG, Tyczka Hydrogen GmbH, the counties of Landshut and Munich as well as the energy cooperatives Niederbayern eG, Isar eG and Unterhaching eG - has commissioned the construction of a five-megawatt electrolysis plant with compressor and filling stations in Pfeffenhausen. The start of production for green hydrogen from Bavaria in the HyPerformer region HyBayern around the counties of Landshut, Ebersberg and Munich is expected for the second half of 2023.

Pfeffenhausen, May 11, 2022. Hy2B Hydrogen GmbH, the operating company for the green hydrogen production in the HyPerformer region HyBayern funded by the Federal Ministry for Digital Affairs and Transport (BMDV), has commissioned Kraftanlagen Energies & Services GmbH as general contractor to set up a five-megawatt electrolysis plant, compressor and filling stations. An alkaline electrolyzer from the Norwegian company NEL ASA (NEL) will form the technical basis for the electrolysis system. The general planning has been assigned to MR PLAN GmbH.

Outlook: In autumn 2022, the groundbreaking ceremony for the construction of the facilities of the green hydrogen electrolysis plant is to begin. The installation and commissioning of the electrolysis plant is to begin at the end of the year.

From the second half of 2023, the electrolysis system will produce an average of 1,200 kilograms of green hydrogen per day, compress it to up to 450 bar and fill it in a filling station with six fill ports in pressurized gas trailers with a capacity of 1,250 kg per trailer. Trucks will deliver the green hydrogen to two bus and truck filling stations in the districts of Munich and Ebersberg, where the first ten hydrogen fuel cell buses of the HyPerformer Region HyBayern will be filled up starting from 2023. The buses will operate lines of the regional traffic of the Munich Transport and Tariff Association GmbH (MVG). Additional customers from the mobility and energy sectors will be supplied with the remaining green hydrogen. From 2024/25, the hydrogen technology application center (WTAZ) planned in the direct vicinity of the Hy2B electrolyzer will also be supplied with green hydrogen. As one of four hydrogen centers nationwide, the WTAZ in Pfeffenhausen is intended to co-found the National Hydrogen Innovation and Technology Center (ITZ).

The green electricity for green hydrogen production is generated primarily in the region around the electrolysis plant. A ten-megawatt photovoltaic free-field plant from BürgerEnergie Niederbayern eG will be the starting point. The PV plant will be connected directly to the electrolyzer and shares a joint connection point to the grid. This enables the electrolyzer to be operated economically and in a manner that is beneficial to the grid and offers regional green power producers a short-term connection and usage for their renewable solar and wind power. The electrolyzer, thus, helps additional renewable power generation plants to be commissioned timely and green electricity is refined into green hydrogen, especially when the grid cannot absorb it. This green hydrogen is then used in mobile and stationary applications, leading to annual savings of more than



4,500 tons of CO2 per year in the HyBayern model region.

The development of the HyBayern region as a green hydrogen region is being funded by the Federal Ministry for Digital Affairs and Transport with up to 20 million euros as part of the National Innovation Program for Hydrogen and Fuel Cell Technology (NIP2). The funding guideline is coordinated by NOW GmbH and implemented by the project management agency Jülich (PtJ).

Hy2B consortium chooses strong technology and implementation partners

In addition to Kraftanlagen Energies & Services GmbH as general contractor for the construction of the hydrogen production plant with electrolyzer, compressor and filling station, MR PLAN GmbH has been commissioned to carry out the general planning for the construction of buildings and outdoor facilities. The well-proven alkaline electrolysis technology from the Norwegian manufacturer NEL is to be used to produce the green hydrogen via electrolytic splitting of water using green electricity. In securing the financing, the Hy2B hydrogen is accompanied by the HypoVereinsbank.

The municipality of Pfeffenhausen and the district of Landshut play an important role, providing helpful assistance in questions of development, land use planning and the approval process.

The technology and implementation partners are selected by the shareholders of Hy2B Hydrogen GmbH. The shareholders represent a unique alliance of companies, counties and citizens' energy cooperatives. In addition to Hynergy Invest GmbH, BayWa AG and Tyczka Hydrogen GmbH, the counties of Landshut and Munich as well as the citizen energy cooperatives Isar eG, Niederbayern eG and Unterhaching eG are shareholders of Hy2B Hydrogen GmbH.

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Pictures:



Green hydrogen electrolyzer from Hy2B Hydrogen GmbH with 6 filling stations for compressed gas trailers, funded by the Federal Ministry of Digital and Transport in the HyPerformer model region HyBayern

