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Watt d'Or Award for Power-to-Gas Project Featuring HZI Technology

Limeco installation in Dietikon receives prestigious Swiss energy award

The power-to-gas plant operated by Limmat Valley utility Limeco has been awarded the Watt d'Or 2023 in the energy technology category. The prestigious Swiss energy award is presented every year by the Swiss Federal Office of Energy (SFOE). At the award ceremony held in mid-January in Bern, Hitachi Zosen Inova's technology also received this seal of energy excellence. The biological methanation technology used in Dietikon was developed by Hitachi Zosen Inova Schmack.

Zurich. The hallmarks of the lighthouse project on a site shared with an energy from waste facility and wastewater treatment plant are highly efficient resource utilisation and a groundbreaking combination of technologies for producing renewable energy. A core component of the plant is a methanation reactor from Hitachi Zosen Inova Schmack (HZI Schmack) in which hydrogen reacts with the carbon dioxide (CO₂) it contains while biogenic digester gas is fed in. This produces green synthetic methane. The Limeco project is the first in Europe to produce a natural gas substitute on an industrial scale on the basis of HZI Schmack's biological methanation process BiON. It is making a pioneering contribution to the transformation of the Swiss energy system.

Third Award for HZI Schmack Tech

HZI Schmack, based in Schwandorf in Bavaria, is a specialist in fermentative biogas production and methanogenesis (biomethanation). The company emerged just over a year ago from the integration of Schmack Biogas Service and microbEnergy, two traditional brands that had developed biological methanation to market maturity.

The Watt d'Or was therefore also recognition of the German HZI company's achievements as a technology developer and the outstanding commitment of the project group, which included Doris Schmack, Head of R&D Biological Processes at HZI Schmack. She commented as follows: "Following the Rudolf-Diesel-Medaille and the German gas industry's special award, this is the third major award for our biological methanation technology. It underscores our commitment to this key technology as one of the components of the transformed energy supply system of the future."

HZI Schmack CEO Manuel Götz adds this: "The technology makes a valuable contribution to the decarbonisation of the economy. This award doesn't just recognise the pioneering spirit of our client, but also the performance of the plant: The natural gas substitute produced can save around 5,000 tonnes of carbon emissions per year – the amount generated by around 2,000 households."

(2,519 characters incl. spaces)

Attachments: 2 images

Limeco PtG-Anlage in Dietikon.jpg;w Award-winning: the power-to-gas plant on the Limeco site in Dietikon (Foto: Limeco)

Watt d'Or_Energiotechnologien_Limeco_Foto_BFE (Foto: Bundesamt für Energie)

Factsheet

About Hitachi Zosen Inova

Zurich-based green-tech company Hitachi Zosen Inova (HZI) is a global leader in solutions for energy transition and circular economy including Energy from Waste (EfW) and Renewable Gas (RG), operating as part of the Hitachi Zosen Corporation Group. HZI acts as a project developer, technology supplier and engineering, procurement and construction (EPC) contractor delivering complete turnkey plants and system solutions for thermal and biological waste recovery. Its solutions are based on efficient and environmentally sound technologies, are thoroughly tested, and can be flexibly adapted to customer requirements. HZI's Service Solutions Group combines its own research and development with comprehensive manufacturing and erection capabilities to provide support throughout a plant's entire plant cycle. HZI works for customers ranging from established waste management companies to up-and-coming partners in new markets. Its innovative and reliable solutions have been part of more than 1,600 reference projects worldwide.

Find out more about HZI at www.hz-inova.com.

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