



**Press Release – 20 April 2022**

## **H<sub>2</sub>-Industries to develop US \$1.4 billion waste-to-hydrogen plant in Oman**

H<sub>2</sub>-Industries and Public Establishment For Industrial Estates – Madayan have signed a memorandum of understanding (MOU) to develop a waste-to-hydrogen plant in conjunction with PV solar power plants with base-load capacity in the Sultanate of Oman. The proposed US \$1.4 billion facility will be built on a 200,000m<sup>2</sup> coastal site.

The facility will initially convert up to one million tons of municipal solid waste each year sourced from waste management operators and mined from existing landfills but has the capacity to expand to manage up to four million tons of waste. The project also includes the construction of a 300 MW base-load capable PV solar installation that will include 70 MW of electrical storage.

The annual production of hydrogen and CO<sub>2</sub> generated from the waste has an export value of over \$268 million, comprising 67,000 tons of green hydrogen and one million tons of CO<sub>2</sub>. Although the primary function of the plant is to produce green energy without environmentally harmful emissions, it also offers additional benefits to the region. The project will allow Oman to develop an effective waste management system, creating employment and delivering other socio-economic benefits.

### **Tackling waste management challenges**

Municipal solid waste management is a challenging issue for the Sultanate of Oman. With a population of almost three million inhabitants, the country produces about 1.9 million tons of solid waste each year. The per capita waste generation in Oman is more than 1.5 kg per day, among the highest worldwide.

H<sub>2</sub>-Industries' proprietary technology transforms organic waste including plastic, sewage sludge, and existing landfill waste in a thermos-chemical process into green hydrogen and pure CO<sub>2</sub>. This is achieved without the use of external electricity or burning waste, making the entire process emission free. The green hydrogen produced from that process can be transported and stored, using H<sub>2</sub>-Industries' Liquid Organic Hydrogen Carrier (LOHC) technologies, and released on demand for use in industrial applications. Once the pre-



development and permitting phase is completed, the facility will start producing hydrogen in approximately 30 months.

### **Oman's first waste-to-hydrogen facility**

“This is an exciting opportunity and one that will take the tons of waste that collects in Oman and turn it into green hydrogen,” Executive Chairman of H<sub>2</sub>-Industries, Michael Stusch said. “The \$1.4 billion investment into Oman will make a substantial contribution to the country’s waste management strategy and demonstrates how fighting climate change and enhancing environmental protection can go hand in hand and benefit all stakeholders.”

### **A growing market for green hydrogen**

The green hydrogen produced at the facility can be sold and transported for international use or, alternatively, H<sub>2</sub>-Industries can create low-cost synthetic diesel (eDiesel) or sustainable aviation fuel (SAF), with the captured CO<sub>2</sub>, which is the only emission in this process, depending on international market demand.

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### **About H<sub>2</sub>-Industries**

H<sub>2</sub>-Industries Inc. is a global hydrogen generation and energy storage solutions company headquartered in New York City, USA. Founded by Dipl.-Ing. Michael Stusch in 2010, the business focused on developing technologies that generate, store, transport and release green hydrogen using Liquid Organic Hydrogen Carriers (LOHC). The hydrogen can then be economically extracted and converted to electrical energy. At present, H<sub>2</sub>-Industries Inc. is engaged in commercialization activities in twenty countries on five continents, collaborating with leading suppliers and consultants worldwide to facilitate the deployment of its technology. To learn more about how H<sub>2</sub>-Industries is changing the renewable energy supply landscape, visit <https://h2-industries.com/en>.

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