

PRESS RELEASE

## DUFERCO ENERGIA AND ANSALDO GREEN TECH PARTNER FOR THE HYDROGEN VALLEY IN SICILY.

- ***Agreement for the supply of a 1 MW electrolyser, designed to produce green hydrogen as part of the Hydrogen Valley project in Giammoro, Sicily.***
- ***Estimated annual production of approximately 100 tons of green hydrogen, intended for energy-intensive industries.***

Genova, 22 April 2025. Duferco Energia and Ansaldo Green Tech have signed a strategic agreement for the supply and commissioning of a 1 MW electrolyser, designed to produce green hydrogen as part of the Hydrogen Valley project in Giammoro, in the province of Messina (Sicily). Supported by the National Recovery and Resilience Plan (PNRR) through the Sicilian Region, this initiative represents one of the key projects in Europe in the energy transition and the development of Italy's hydrogen value chain.

The electrolyser, supplied by Ansaldo Green Tech, employs innovative AEM (Anion Exchange Membrane) technology, offering high efficiency and operational flexibility. Developed within the framework of the IPCEI project and funded by the European Union's "NextGenerationEU" programme, the system will be assembled on a new production line currently under construction in Genova Campi. It will be capable of producing over 500 kg of green hydrogen per day, with optimized energy consumption and a purity level of 99.9%.

The Giammoro Hydrogen Valley project includes the installation of a 4 MW photovoltaic system to power the electrolyser, enabling the annual production of around 100 tons of green hydrogen. The hydrogen produced will primarily support the decarbonization of key industrial sectors, including steel, logistics, and mobility.

With a total investment of €10 million, the Hydrogen Valley project represents an innovative and sustainable development model for Southern Italy. The project is expected to significantly boost the local economy by creating new job opportunities and promoting the growth of industries related to the production and distribution of green hydrogen.

"The Hydrogen Valley in Sicily represents a concrete step toward the energy transition and the strengthening of the island's energy independence," said Massimo Croci, CEO of Duferco Energia. "This initiative will not only generate environmental benefits but also provide new economic and employment opportunities for the region. Environmental sustainability can go hand in hand with industrial and social development."

*"We are proud to contribute to the Giammoro-Messina Hydrogen Valley project led by Duferco Energia," said Vittorio Olcese, CEO of Ansaldo Green Tech. "This agreement is a strong endorsement of Ansaldo Green Tech's technology, focused on efficiency and flexibility in the production of green hydrogen to decarbonize sectors such as mobility, logistics, and hard-to-abate industries like steel."*

The initiative is aligned with the European decarbonization strategies outlined in the RePowerEU plan, which aims to reduce reliance on fossil fuels and accelerate the adoption of renewable energy. The Giammoro Hydrogen Valley will therefore contribute not only to local environmental sustainability but also to the European Union's climate neutrality goals.

Electrolyser performance	
Single Stack power consumption (BoL)	1 MW
System power consumption	1.16 MW
Hydrogen production (base load)	21 kgH <sub>2</sub> /h @30barg
Oxygen Production (base load)	168kg/h @0.3-30barg
Energy consumption	55 kWh/kgH <sub>2</sub>
Startup time (warm)	<2 min
Load range	30-100%
Demi water consumption	9,1 l/kgH <sub>2</sub>
Demi water quality	5µS/cm
Hydrogen quality	99,9% (higher purity achievable with dryer)
Operating temperature	-5 ÷ +40°C
Sound Pressure Level	85 dB(A)@1m
Container dimension	40' standard ISO

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### Duferco Energia SpA

Duferco Energia SpA is a company of the Duferco Group, one of the leading players of the Italian energy market. Created to manage the Group's investments in electricity production plants from renewable sources, it subsequently focused on the marketing of energy, gas and energy efficiency and sustainable mobility services for all market segments. Headquartered in Genoa and with over 400 employees, the company has been operating on the Italian market since 2010 and offers energy services to over 600,000 customers. Today, Duferco Energia is also one of the leading Italian operators in the field of sustainable mobility, with a network of over 30,000 charging points enabled for its services in Italy and develops energy efficiency and renewable production projects. [www.dufercoenergia.com](http://www.dufercoenergia.com)

### Ansaldo Energia - Ansaldo Green Tech

The Ansaldo Energia Group is a world leader in power generation. Its core business is the supply and service of components and technological solutions for the production of energy with rotating machines. Headquartered in Genoa, the Group has over 3,300 employees and a strong international presence thanks to its over 30 locations worldwide. Ansaldo Green Tech, a subsidiary of Ansaldo Energia, offers microturbines for cogeneration plants and a new generation of AEM (Anion Exchange Membrane) electrolyzers for hydrogen production. Ansaldo Green Tech's AEM Electrolysers guarantee high efficiency and operational flexibility, ideal for integration with renewable energy plants. [www.ansaldoenergia.com](http://www.ansaldoenergia.com)

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