

PRESS RELEASE

**Ecospray: liquefy CO<sub>2</sub> captured from the sea to heal the climate**  
***The Italian company awarded the contract for the Captura and Equinor pilot in Norway***

Alzano Scrivia (AL, Italy), Feb. 7, 2024 - Ecospray, an Italian company specializing in integrated solutions for decarbonization, will take part as a technical supplier in a groundbreaking pilot project to capture carbon dioxide (CO<sub>2</sub>) from seawater.

The company will provide CO<sub>2</sub> liquefaction technologies to Captura, a U.S.-based company founded at the California Institute of Technology (Caltech) and focused on carbon removal via the oceans. Captura has partnered with Equinor to build a 1,000-ton/year CO<sub>2</sub> capture pilot system at Equinor's processing facility in Kårstø, on the west coast of Norway.

Ecospray is scheduled to deliver the pilot's CO<sub>2</sub> liquefaction system in the third quarter of 2024.

**CO<sub>2</sub> capture from the sea, high purity liquefaction and storage**

The pilot will use Captura's Direct Ocean Capture (DOC) technology to capture CO<sub>2</sub> from seawater.

Once captured, after the water removal, the CO<sub>2</sub> will be liquefied and purified using Ecospray's system, before being used for the commissioning of the Northern Lights facilities - the world's first open-source CO<sub>2</sub> transport and storage infrastructure.

The Ecospray CO<sub>2</sub> liquefaction is based on the water removal, cooling and subsequent distillation of the CO<sub>2</sub> optimizing energy consumptions and concentration to obtain the required high-level purity.

**The sea to heal the climate**

The oceans absorb about 30 percent of global CO<sub>2</sub> emissions; thus, they perform a valuable "buffering" action that limits global warming. At the same time, the steady increase in CO<sub>2</sub> produced by anthropogenic activities and the resulting increased uptake by the oceans are acidifying waters and interfering with ecosystems.

It is therefore essential to work on technologies that remove CO<sub>2</sub> from the ocean and atmosphere. Captura's DOC technology works in this direction.

*"We are strongly committed to innovative and concretely revolutionary challenges," said **Giorgio Copelli, Director of Sales & Marketing at Ecospray**. "The Captura project has all the characteristics of this. Ecospray is proud to be part of it as a technology's provider. The capture of*



*CO<sub>2</sub> from seawater is an advancing area but one with great potential that can concretely support decarbonization. Our liquefaction systems are flexible, and we operate in different sectors, always offering cutting-edge technologies. Being chosen for such a significant project is a great certificate of esteem from the market."*

### **About Ecospray**

*From research to development, Ecospray specializes in the creation of integrated solutions for the sustainable conversion of marine and land-based industries, as well as for the reduction of dependence on fossil fuels. Founded in 2005, Ecospray, market leader in the exhaust gas cleaning systems for marine diesel engines (EGCS), has been part of the Carnival Group since 2013.*

*The company operates globally, offering diverse technologies which range from air and gas cleaning and treatment systems (DeNO<sub>x</sub>, DeSO<sub>x</sub>, filtration, gas cooling and fogging) to the creation of biofuels and the generation of clean energy (biogas upgrading, CH<sub>4</sub> and CO<sub>2</sub> liquefaction, fuel cells).*

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