

soleidir oover Turning buildings into carbon sinks

www.soletairpower.fi info@soletairpower.fi +358 40 544 5646



SOLETAIR POWER

Headquartered at Lappeenranta, Finland – Soletair Power – since its inception in 2016, has been continuously working towards innovation in integrating Direct Air Capture technology in buildings. The integration achieves up to a 50% reduction in buildings' emissions, supports employee wellbeing while the captured carbon can be reused as a non-fossil-based resource in a wide array of applications.







WHERE ARE WE DIFFERENT?

01. Tailored for buildings

Our CO₂ capture devices are compact and fits the infrastructure as we develop them following a modular design principle.

02. Viable solution at reasonable price

Through continuous research, we have already discovered several ways to optimize costs that will minimize the cost and energy required for removal of tons of CO_2 .





System installed at ZBT, Duisburg, Germany



OUTDOOR CO2 CAPTURE UNIT

Housed in a container, this unit captures CO₂ from the outdoor air utilizing DAC technology.

Specifications:

- Dimensions: 12 m x 2.5 m x 2.8 m
- Weight: 13 tons
- CO₂ capture capability up to 1000 tons/year 0
- Containerized unit can be placed easily near buildings or premises.
 - Modular design allows to increase capture capacity as much as required.

Benefits:

- Captured CO₂ can be stored, sold, transported or converted into other products.
- Reduces atmospheric CO₂ by capturing it 0 and the utilization keeps it in a closed loop.

Radiator



System installed at Wärtsilä Sustainable Technology Hub, Vaasa, Finland







BUILDING HVAC INTEGRATED CO, CAPTURE UNIT

Captures CO₂ from the buildings HVAC system. Office buildings equipped with Soletair Power's direct air capture technology integration will be able to reduce net emissions, keep CO₂ levels low and people working more efficiently.

Specifications:

- Dimensions: 2.5 m x 1.4 m x 1.4 m
- The modular design enables our system to fit 0 inside any buildings in any shape.

Benefits:

- CO₂ in the airstream can be kept at a low level
- Captured CO₂ can be stored, transported and utilized in several applications, for example: concrete manufacturing, green fuel or plastics.





The unit at Lappeenranta, Finland

INDOOR CO, FILTERING AIR **PURIFIER UNIT**

Captures CO₂ from a single meeting room during an office day. Office buildings equipped with Soletair Power's air Capture technology will be able to keep CO₂ levels low and people working more efficiently.

Specifications:

- Dimensions: $0.4 \text{ m} \times 0.4 \text{ m} \times 1.5 \text{ m}$
- Captures carbon dioxide from the air in a room
- Built-in self-cleaning module 0
- Power requirement: 230 VAC
- Filter efficiency MPPS: ~98.997% 0

Benefits:

- CO₂ levels is kept low during working hours
- Employees enjoy CO₂-lean air benefit 0
- Suitable for meeting rooms 0





System demonstrated at Expo 2020 Dubai, UAE



POWER-TO-X DEMO UNIT MADE FOR EXPO 2020 DUBAI

This CO₂ capture unit was made for demonstrating direct air capture and Power-to-X at the Finnish pavilion in EXPO 2020 Dubai.

Specifications:

- Dimensions: 5 m x 1.1 m x 2.1 m 0
- The modular design enabled this system to fit inside the exhibition area

Benefits:

- \circ CO₂ is collected from the air directly and utilized in making green fuel.
- Constant CO₂ tracking with data collection.
- Captured CO₂ can be turned into synthetic fuels within the building.









Soletair Power

Tuotantokatu 2 53850 Lappeenranta Finland www.soletairpower.fi info@soletairpower.fi

+358 40 544 5646