

Agrivoltaic Canopy

Innovative agrivoltaic canopy suitable for large field crops that offers versatility to meet the specific needs of the crops, whilst optimising energy production.





All images © Agrivoltaic Canopy

Agrivoltaic Canopy

Beneficiaries: TSE, SPV Brouchy



Brouchy, France



EUR 2 756 167
granted



6,98 kt CO₂ eq
emissions avoided



Solar Energy



BEAR: HyBrid rEgenerative glAss fuRnace

A new hybrid regenerative furnace that combines the energy efficiency of all-electric furnaces with the operational flexibility of conventional regenerative furnaces.



BEAR

Beneficiaries: Steklarna, NIC



Vzhodna Slovenija,
Slovenia



EUR 2 238 000
granted



96,38 kt CO₂ eq
emissions avoided

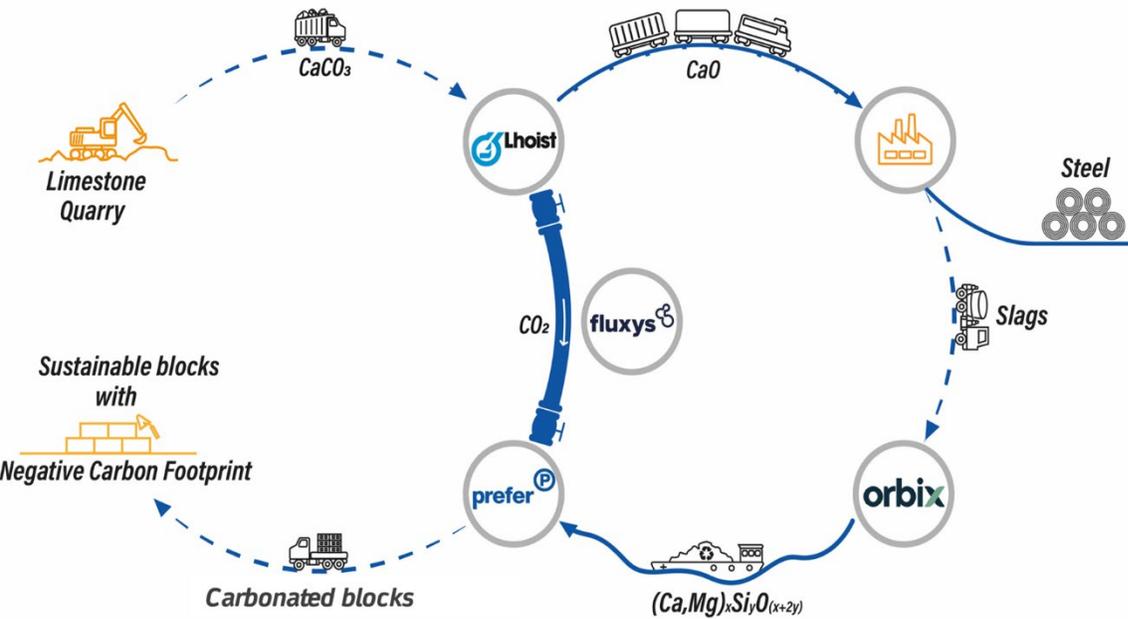


Glass, ceramics & construction
material



C02ncrEAT

A carbon negative, sustainable and environmentally sound alternative to a concrete manufacturing process by reusing residues from slag recycling centres and CO₂ captured from the exhaust gases of a lime manufacturing process.



All images © C02ncrEAT

C02ncrEAT

Beneficiaries: PREFER, ORBIX, FLUXYS, LHOIST



Hermalle-sous-Huy,
Belgium



EUR 4 265 135.60
granted



190,97 kt CO_2 eq
emissions avoided



Glass, ceramics & construction
material



INNOVATION FUND

Deployment of net-zero and innovative technologies

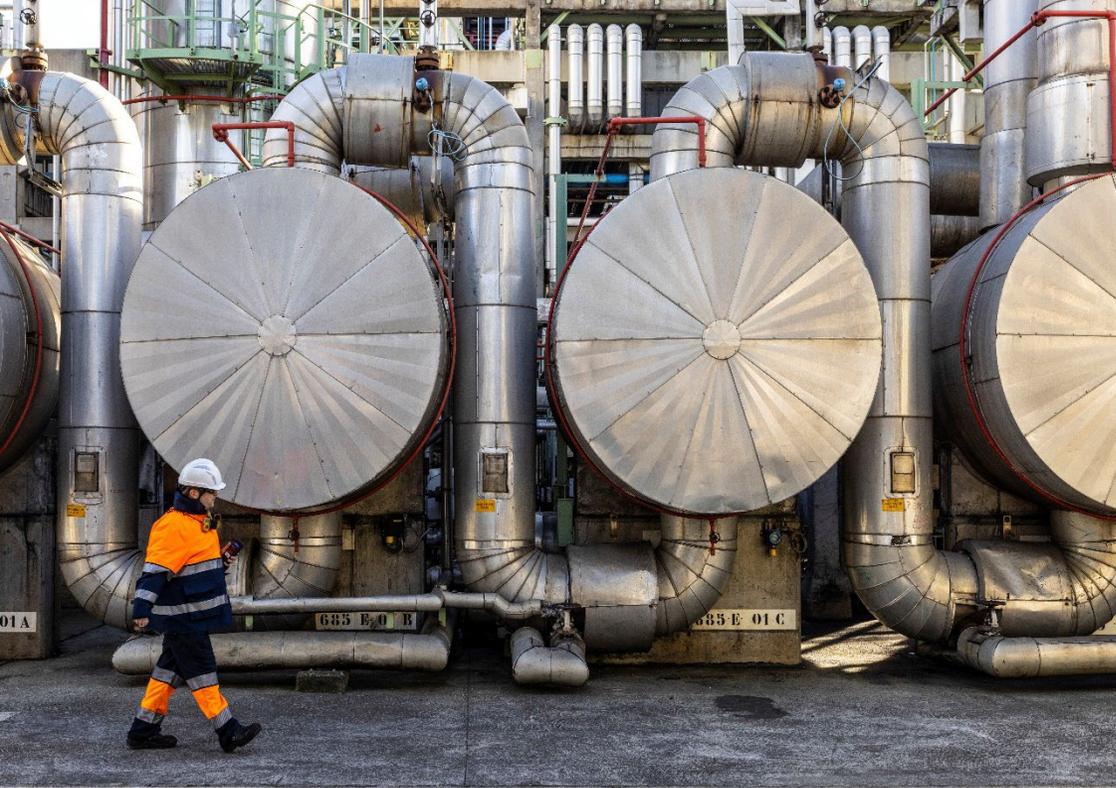
CIRQLAR

First of its kind unit for recovery of low-temperature waste heat in Europe, with emission reduction potential, efficiency of heat recovery and expanded operability and flexibility of the system.

All images © CIRQLAR



Funded by: EU Emissions Trading System



All images © CIRQLAR

CIRQLAR

Beneficiaries: REPSOL, RP, RANK



A Coruña, Spain



EUR 2 169 261.68
granted



59,49 kt CO₂ eq
emissions avoided



Other



CLYNGAS

Substitution of petroleum coke in the cement industry by synthesis gas (syngas) produced using a combination of waste residues from other industrial processes as a feedstock.



CLYNGAS

Beneficiaries: CEMEX



Alicante, Spain



EUR 4 416 864
granted



406,96 kt CO₂ eq emissions
avoided

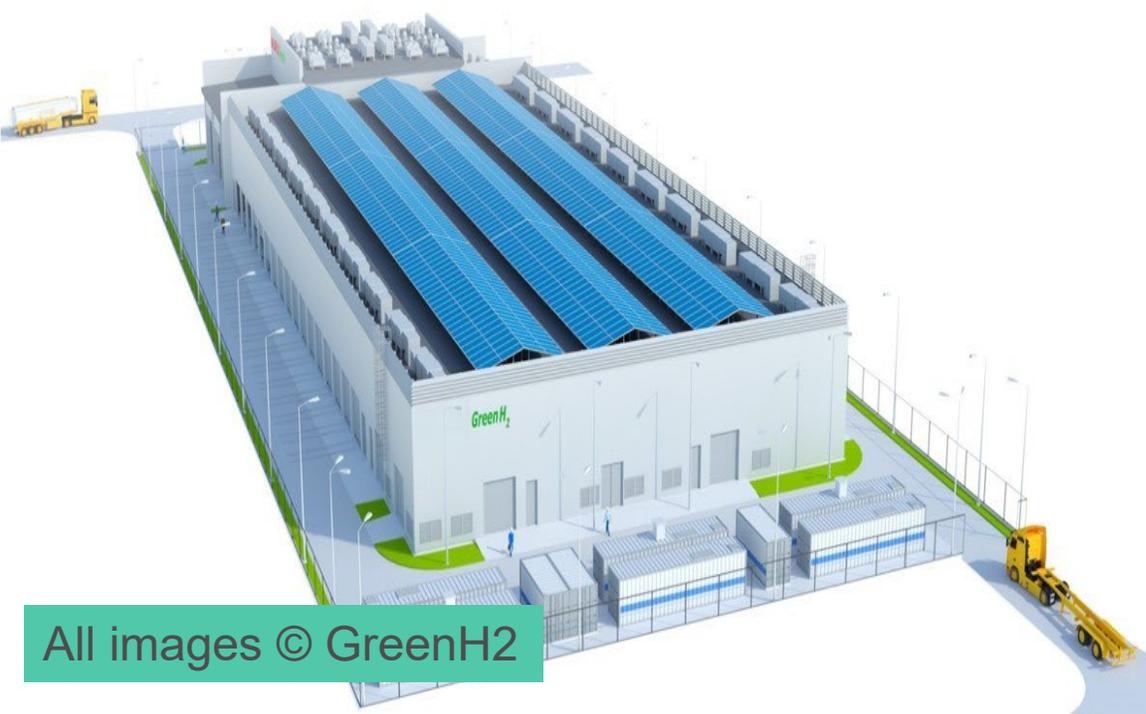


Cement and lime



GreenH2

Production of green hydrogen with the integration of an energy management system, heat recovery and a dedicated renewable energy source, maximizing the energy and cost efficiency of the production process.



GreenH2

Beneficiaries: LOTOS Green H2



Gdańsk, Poland



EUR 4 492 131.42
granted



9,38 kt CO₂ eq
emissions avoided



Hydrogen



All images © GreenH2

GreenH2CY

Production of hydrogen from renewable energy for the transport sector, to re-fuel trucks and replace diesel vehicles. The project will include a refueling station and hydrogen storage facilities, allowing the electrolyser to be used flexibly and run during off-peak hours.



GreenH2CY

Beneficiaries: Ketonis H., Future Fuels



Aradippou, Cyprus



EUR 4 449 877 granted



21,68 kt CO₂ eq emissions avoided



Refineries



HFP: Hybrid Furnace Project

The first hybrid glass wool furnace that receives 50% of its heating power from electricity (Boosting), providing a more environmentally friendly alternative to flame furnaces that are used to produce molten glass.



Copyrights ©: Franck Dunouau / Saint-Gobain Glass



All images © HFP

HFP

Beneficiaries: SGCPN



Etten-Leur,
Netherlands



EUR 4 043 000
granted



100,23 kt CO₂ eq emissions
avoided



Glass, ceramics & construction
material



HyPush

Creation of an innovative pusher vessel to move heavy barges in the Paris area. Powered by green hydrogen, this will fully decarbonise bulk transport on the Seine axis and immediately improve air quality.



HyPush



Beneficiaries: NGM



Paris, France



EUR 3 066 840 granted



12,29 kt CO₂ eq emissions avoided



Use of renewable energy
outside Annex I

InnoSolveGreen

Novel Energy-as-a-Service solution enabling industrial consumers to meet their annual electricity needs with cost-effective, locally produced electricity from two solar photovoltaic plus storage (PV-plus-storage) systems.





InnoSolveGreen

Beneficiaries: Green Genius, GG LTU S20



Utena/Butrimonys, Lithuania



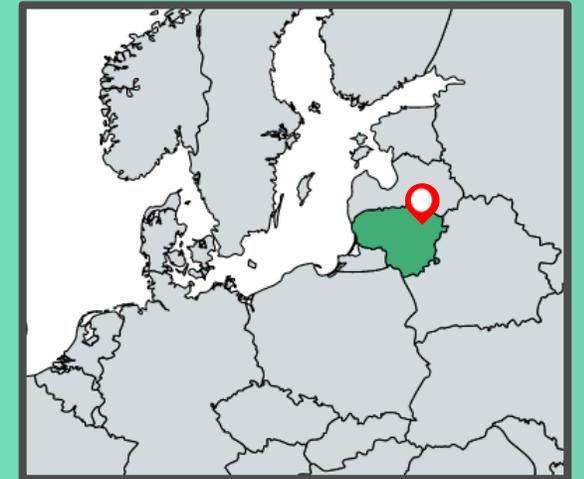
EUR 2 614 114 granted



16,67 kt CO₂ eq emissions avoided

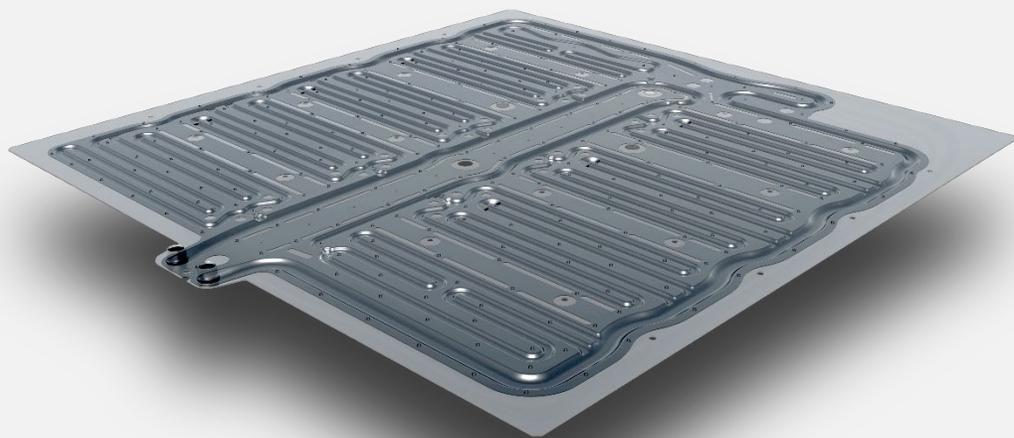
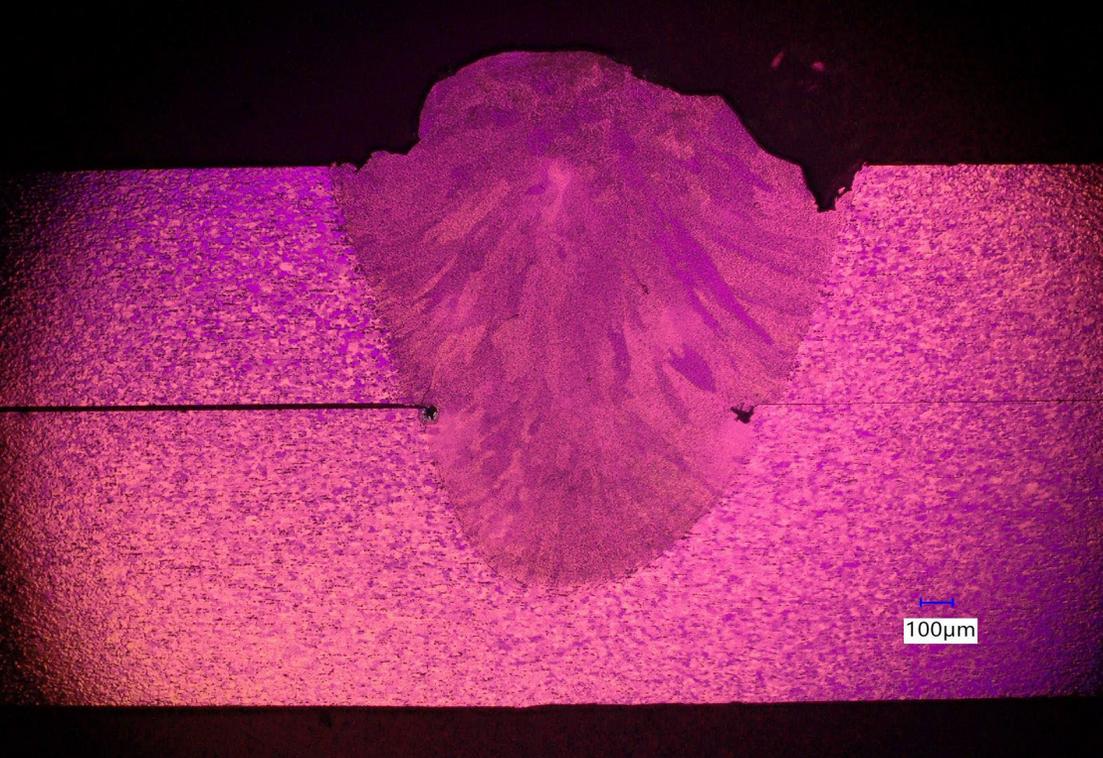


Other energy storage



Listlawelbattcool

New battery cooler production line for electric vehicles that delivers significant reductions in CO2 emissions compared to the current state-of-the-art technology, reducing energy consumption by 50% while increasing the recyclability rate of the raw material.



Listlawelbattcool

Beneficiaries: Val, Valeo Termic,
Valeo Źebrk



Źebrk, Czechia



EUR 3 615 973.80
granted



223,57 kt CO₂ eq emissions
avoided



Manufacturing of components for
production of renewable energy or
energy storage



PRIMUS

Innovative combination of crystal glass furnace technologies to improve energy efficiency and reduce GHG emissions, using furnace electrification and an innovative waste heat recovery solution related to the furnace channels, regenerative burners and the exhaust furnace gas.



PRIMUS

Beneficiaries: Bormioli Rocco



Fidenza, Italy



EUR 4 499 755.20
granted



42,33 kt CO₂ eq emissions
avoided



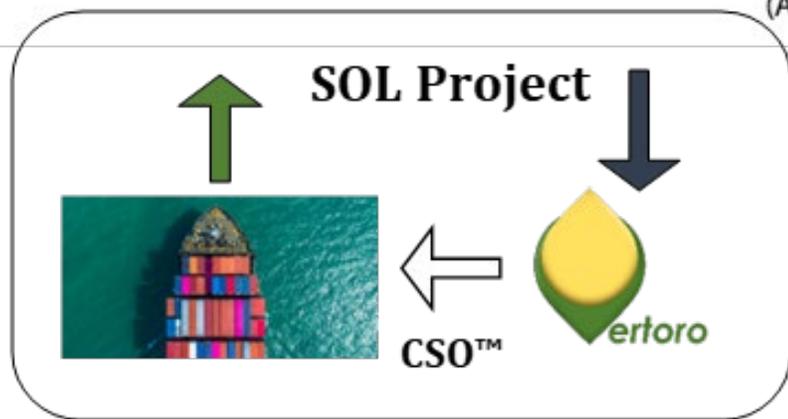
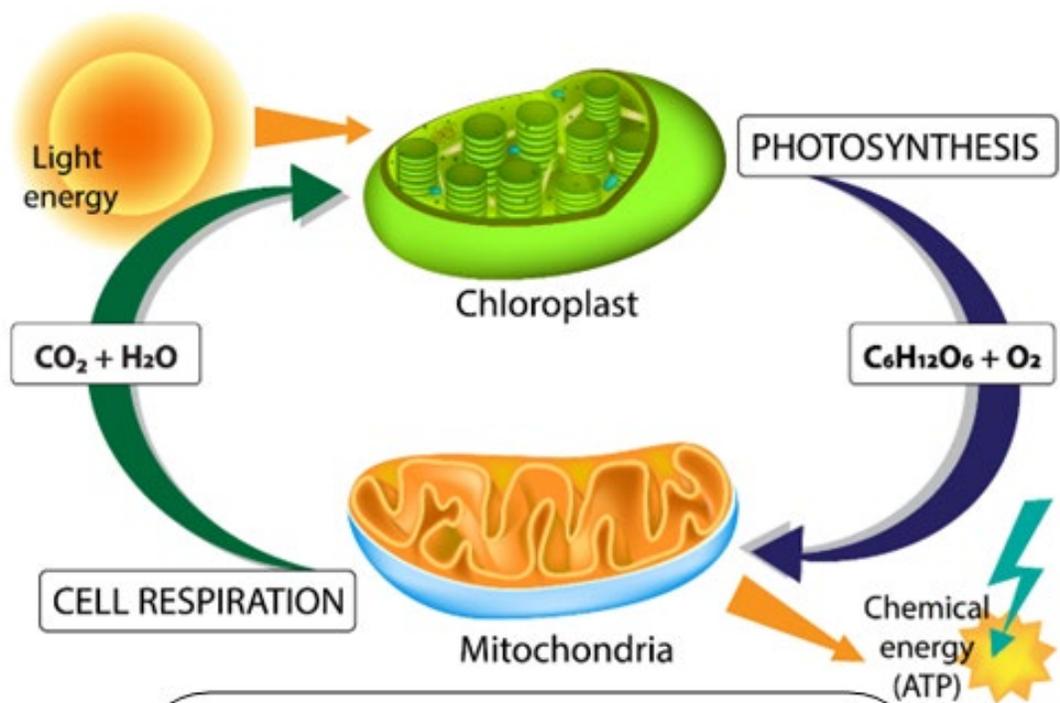
Glass, ceramics & construction
material



SOL: Sugar Oil as sustainable marine fuels

Crude sugar oil (CSO™) production from cellulose blended with fossil marine fuel, as a fuel for internal combustion engines, specifically those that propel sea going vessels.





SOL

Beneficiaries: Vertoro, Vertoro West



Rotterdam, Netherlands



EUR 4 000 000 granted



44,74 kt CO₂ eq emissions avoided



Biofuels and bio-refineries



INNOVATION FUND

Deployment of net-zero and innovative technologies

SustainSea

Innovative rigid wind sail system in maritime transport, integrated into large cargo vessels to reduce fuel use and GHG emissions in the sector.

All images © SustainSea

Credit: bound4blue



Funded by: EU Emissions Trading System



SustainSea

Beneficiaries: bound4blue



Santander, Spain



EUR 4 098 568.96
granted



46,79 kt CO₂ eq emissions avoided



Wind energy



VITRUM

Innovative technology based on a hybrid gas and electricity furnace for high-quality glass, combined with a high share of Post-Consumer Recycled (PCR) glass and a more efficient forehearth conditioning system.



VITRUM

Beneficiaries: Bormioli Luigi



Abbiategrasso, Italy



EUR 4 100 000
granted



25,60 kt CO₂ eq emissions
avoided



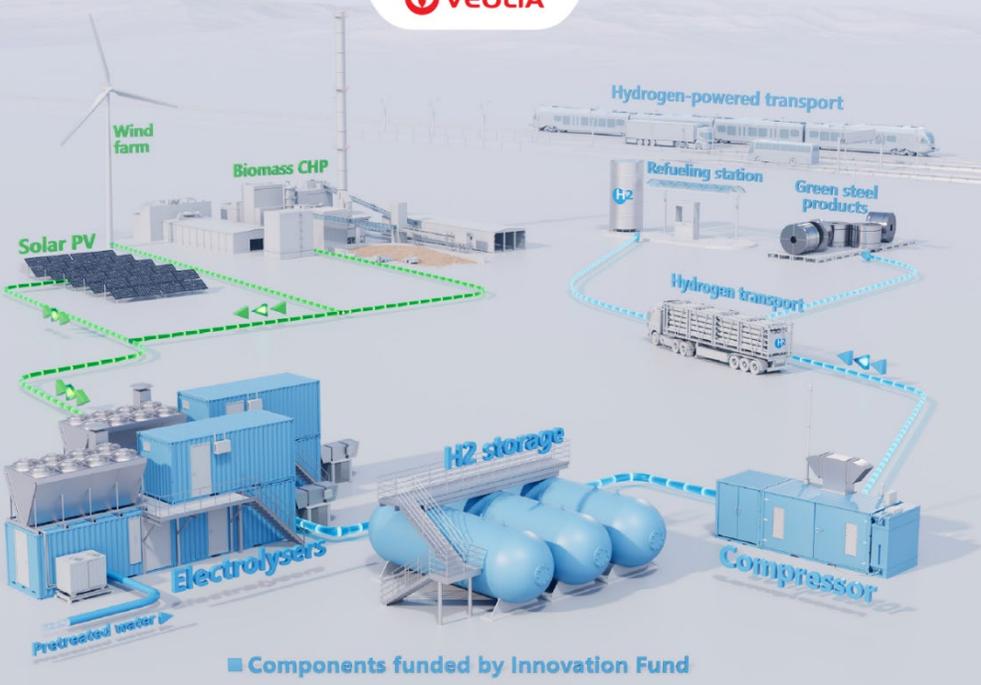
Glass, ceramics &
construction material



VOZARTEK

Production of hydrogen in a 2 megawatt (MW) electrolyser powered by solar photovoltaic (PV) cells and a biomass combined heat and power (CHP) system to supply vehicles, with the added possibility of utilization in metallurgy or injection into the natural gas grid.





VOZARTEK

Beneficiaries: Veolia Energie



Frýdek-Místek, Czechia



EUR 4 470 000 granted



34,18 kt CO₂ eq emissions avoided



Hydrogen

