Alternative Materials & More Efficient Processes

Holcim, Germany

Carbon2Business

CARBON-NEUTRAL CEMENT PLANT

EPFL - Swiss Federal

LC3 Project

REDUCES ENERGY USE & EMISSIONS

LOW-CARBON CEMENT

Fortera Redding ReCarb®

TRANSFORMING CO₂ INTO A NEW

ArcelorMittal, Belgium

Steelanol

CONVERTING STEEL MILL GAS WASTE TO ETHANOL

Reduce

propane

process

emission-

almost

free

2019: First phase

2023: Second phase

of project

use >80%,

making the

Decarbonisation of Anodising Plant

DECARBONISING ANODISING: HEAT EXTRACTION & ELECTRIFICATION WWW.NET-ZERO-INDUSTRIES-MISSION.NET

GET INVOLVED & STAY IN TOUCH

HOW TO ...

... REDUCE EMISSIONS BY IMPROVING PROCESSES, REUSING HEAT, AND USING LOW-EMISSION MATERIALS

DEMONSTRATION PROJECTS



HOW TO: Improve carbon capture



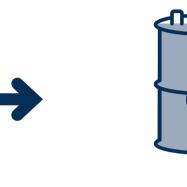
1.2 Mt of CO₂/year

renewable energy)

TARGET SECTOR

Cement & Lime





Use the captured to create



>500 Mt/year

commenced 2029: Planned carbon-neutral cement plant

HOW TO: Save costs & energy in cement production







Cement & Lime



calcined clay with gypsum & limestone

Cement & Lime



TARGET SECTOR

Imitate coral growth: convert calcite to vaterite, to aragonite

HOW TO: Create cement inspired by nature



HOW TO: Brew sustainable ethanol



Avoid 2 t CO₂ per tonne of ethanol



TARGET SECTOR

Iron & Steel

plant began operating, the first of its kind in Europe

Other Energy Intensive & Hard to Abate sectors

HOW TO: Reuse waste heat

TARGET SECTOR

soilers and

improving

of project 2025: Production becomes carbon

The Net-Zero Industries Mission is a collaboration across countries, government, and industry to drive and accelerate the adoption of decarbonisation technologies by hard-to-abate, energy-intensive industries. Technology demonstrations are a critical tool in sharing experience and building trust for industry investments.



