HYDROGEN

INNOVATION FUND

Deployment of net-zero and innovative technologies

FUREC: FUse, REuse,ReCycle

The Innovation Fund is 100% funded by the EU Emissions Trading System

| Project Factsheet

The Project FUREC (FUse, REuse,ReCycle) transforms non-recyclable solid waste streams into hydrogen and provides circular feedstock to the chemical industry.

First, the waste is converted into pellets in a waste treatment plant by sorting, drying and pelletising. The dry pellets are then sent to Chemelot, a major chemical cluster, for conversion into hydrogen. Finally, this hydrogen is supplied to OCI N.V.'s ammonia production plants. The FUREC process uniquely combines torrefaction, milling and entrained flow gasification, followed by the transformation of CO (Carbon monoxide) and water, through synthetic gas, to CO2 and hydrogen.

The FUREC plant will produce 54 000 tonnes of hydrogen per year while avoiding 101% of greenhouse gas emissions compared to the reference scenario during the first ten years of

COORDINATOR
RWE AG

LOCATION
Netherlands

CATEGORY
Energy Intensive Industries (EEI)

SECTOR
Hydrogen

AMOUNT OF INNOVATION FUND GRANT
EUR 108,000,000

EXPECTED GHG EMISSIONS AVOIDANCE
3,619,900 tonnes CO2 equivalent

STARTING DATE
01 January, 2023

ENTRY INTO OPERATION DATE
30 April, 2028

FINANCIAL CLOSE DATE
31 December, 2024

Updated on 22 April 2024

operation.

| Beneficiaries

RWE AG	Germany
RWE GENERATION NL BV	Netherlands
OCI Nitrogen bv	Netherlands