



INNOVATION FUND

Deployment of net-zero and innovative technologies

ZE PAK green H2: Investment in 5 MW green hydrogen production facility located in Konin, Poland

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

| Project Factsheet

Green H2 Project of ZE PAK SA envisages construction of first green hydrogen production installation for transportation purposes in Poland. The installation is planned to be built up sequentially with the first phase targeted at 5MW power gradually increasing up to 50MW depending on the dynamics of the future growth of the market.

The electrolysis system will consist of 2 electrolyzers powered with own renewable sources (60% of electric energy consumption) as well as market sourced PPAs with suppliers of renewable power (40%). The main innovative component introduced by ZE PAK SA is the construction of self-designed electrolyzer stack. The final prototype is planned to allow for -15% CAPEX savings and +5% energy efficiency increase in comparison to

COORDINATOR

PAK PCE BIOPALIWA I WODOR SPOLKA Z OGRANICZONA ODPOWIEDZIALNOSCIA

LOCATION

Poland

CATEGORY

Energy Intensive Industries (EEI)

SECTOR

Hydrogen

AMOUNT OF INNOVATION FUND GRANT

EUR 4,460,000

EXPECTED GHG EMISSIONS AVOIDANCE

77,331 tonnes CO2 equivalent

STARTING DATE

01 October, 2021

ENTRY INTO OPERATION DATE

01 June, 2024

FINANCIAL CLOSE DATE

30 September, 2023

available technologies.

The entire H2 production volume of the installation will be destined for use within the transportation sector, which is Company's main strategic direction in terms of H2 development. ZE PAK SA's primary target market in the short term constitutes of fueling self-produced H2 public buses. Additional revenue stream (15% of overall revenues) of the installation will consist of sales of oxygen, which is a byproduct of the electrolysis process.

With net emission generation per annum equal to 364 tonnes of CO2 and expected production volume at 710 tonnes of Hydrogen, the GHG

emissions per unit of hydrogen are calculated at the level of 0.51 tCO2 equivalent / t H2 - significantly below both the EU ETS benchmark value (8.85 tCO2 / tH2) as well as the average value for 10 % most efficient installations.

Project works have started in 2020, all feasibility, preparatory, permitting and construction works are planned to be completed in 1Q 2024. The Entry into Operations is planned for 1st of June 2024. ZE PAK SA has already covered part of the costs of the Project (2.1 mEUR; not included in budget of application to IF) which reflects Company's strong commitment to successfully launching the Project.

| Beneficiaries

EXION HYDROGEN POLSKIE ELEKTROLIZERY SPOLKA Z OGRANICZONA ODPOWIEDZIALNOSCIA	Poland
PAK PCE BIOPALIWA I WODOR SPOLKA ZOGRANICZONA ODPOWIEDZIALNOSCIA	Poland
EXION HYDROGEN POLSKIE ELEKTROLIZERY SPOLKA Z OGRANICZONA ODPOWIEDZIALNOSCIA	Poland
ZE PAK SPOLKA AKCYJNA	Poland