H2FUTURE
Green Hydrogen

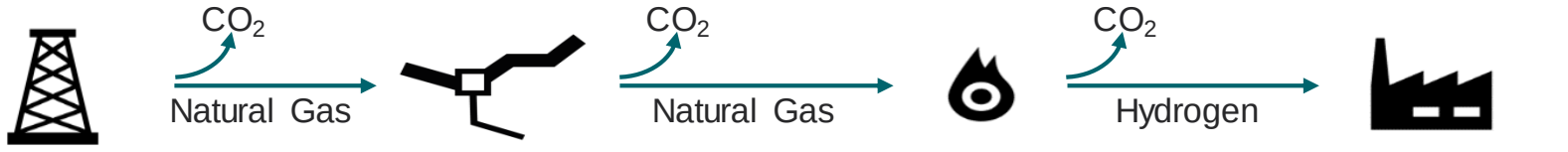
EU Flagship Project H2FUTURE

Overview

This project has received funding from the Fuel Cells and Hydrogen 2 Joint Undertaking under grant agreement No 735503. This Joint Undertaking receives support from the European Union's Horizon 2020 research and innovation programme and Hydrogen Europe and N.ERGHY

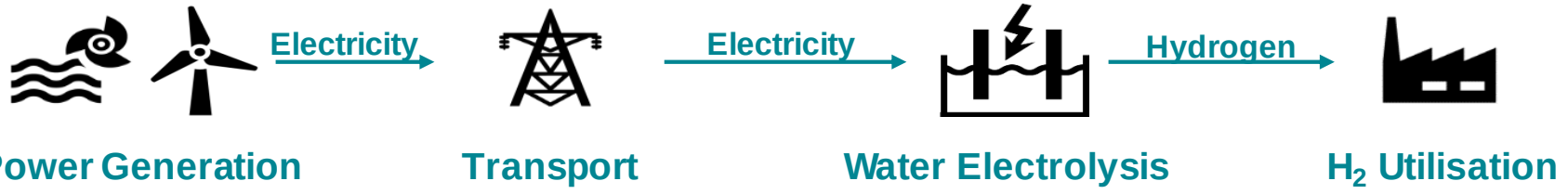
Project Idea

TODAY: Hydrogen is produced via steam reformation **from fossil fuels**, mostly from natural gas. This leads to **substantial CO_2 emissions.**



CO_2 = 0.6 to 0.8 kg/m³ H_2

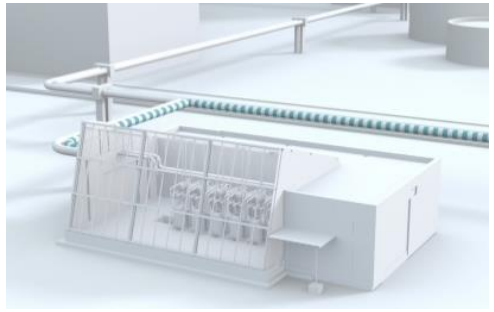
IN THE FUTURE: Water electrolysis via electricity from renewable energy sources will be the main source of green hydrogen with a minimal CO_2 footprint.



CO_2 = 0.0 kg/m³ H_2

Project Overview

One of the world's largest pilot plant for full scale demonstration of "green" hydrogen generation using PEM (Proton Exchange Membrane) electrolysis technology at voestalpine's Linz site with a production of 1,200 m^3/h and of grid balancing services funded by Fuel Cells and Hydrogen Joint Undertaking.



Project budget:	EUR 18 m	
EU funding:	EUR 12 m	(70% funding rate)
Project duration:	4.5 years	(2017 - 2021)

6 Partners, 3 Countries, 1 Common Goal

H2FUTURE

1 Verbund

2 voestalpine ONE STEP AHEAD.

3 SIEMENS

4 APG AUSTRIAN POWER GRID

5 K1 MET metallurgical competence center

6 ECN › TNO innovation for life

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www.h2future-project.eu/

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