



DJEWELS

| The largest zero-carbon hydrogen production unit in Europe

20
MW HCD



Key project to establish zero-carbon hydrogen competitiveness at large-scale

20 MW: 3,000 tons of zero-carbon H₂ / year and 27,000 tons of CO₂ emissions avoided / year

First 20 MW Unit in Europe, dedicated to Renewable Methanol

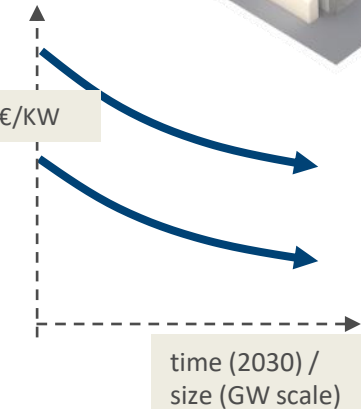
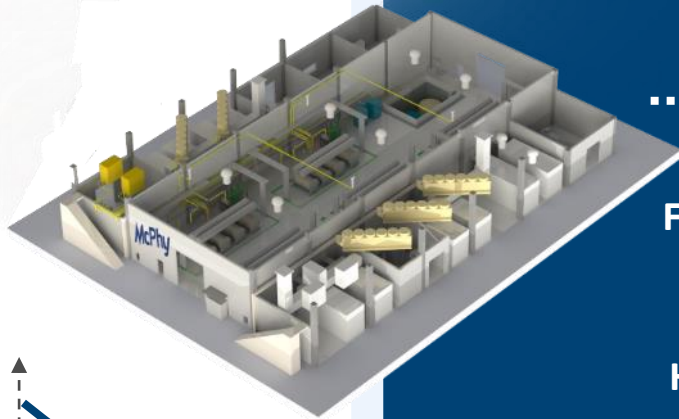
Delfzijl, The Netherlands | Contract: 2020





McPhy Modular & Innovative Technology

| Large-scale alkaline electrolysis



INNOVATION
| Augmented McLyzer

High current density

Flexibility and fast response time
from 0 to 100% in < 30 sec
from 100% to 0 in < 5 sec

High efficiency: < 4,9 KWh / Nm³

High-pressure: 30 bar

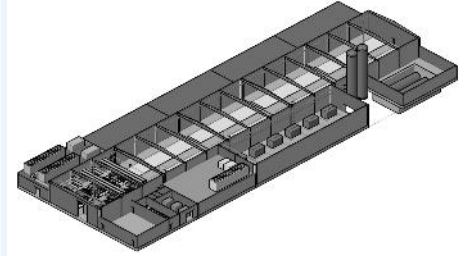
Life time > 70.000 hours

Best TCO on its segment

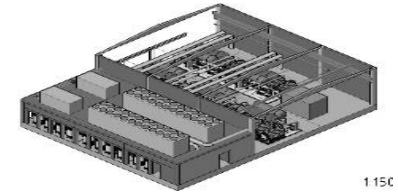
Compact footprint:

20 MW installed in less than 1000 m²

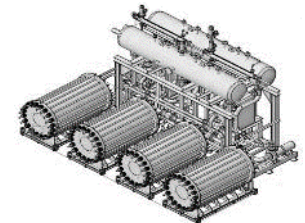
Highest quality & safety standards



100 MW Plant



20 MW Cluster



McLyzer 800: 4 Stacks



McPhy - Industrial scale-up plan

| Sized to keep the pace with market's growth



Up to **300 MW**
per annum

San Miniato, Italy

Increased automation, lean manufacturing and move to 3 shifts

Factory expendable up to 600 MW (new building to be built)

Up to **100 MW**
per annum

San Miniato, Italy

A premier industrial infrastructure
1 shift activity

1,300 MW

per annum

GIGA FACTORY

A new plant in Europe,
additional capacity to McPhy Italy

2 automatic lines for stack
production, industry 4.0

