

Hydrogen pro

Q3 2022 presentation: Take-off for green hydrogen

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Agenda

- I. Highlights
- II. Business update
- III. Technology update
- IV. Strategy
- V. Summary

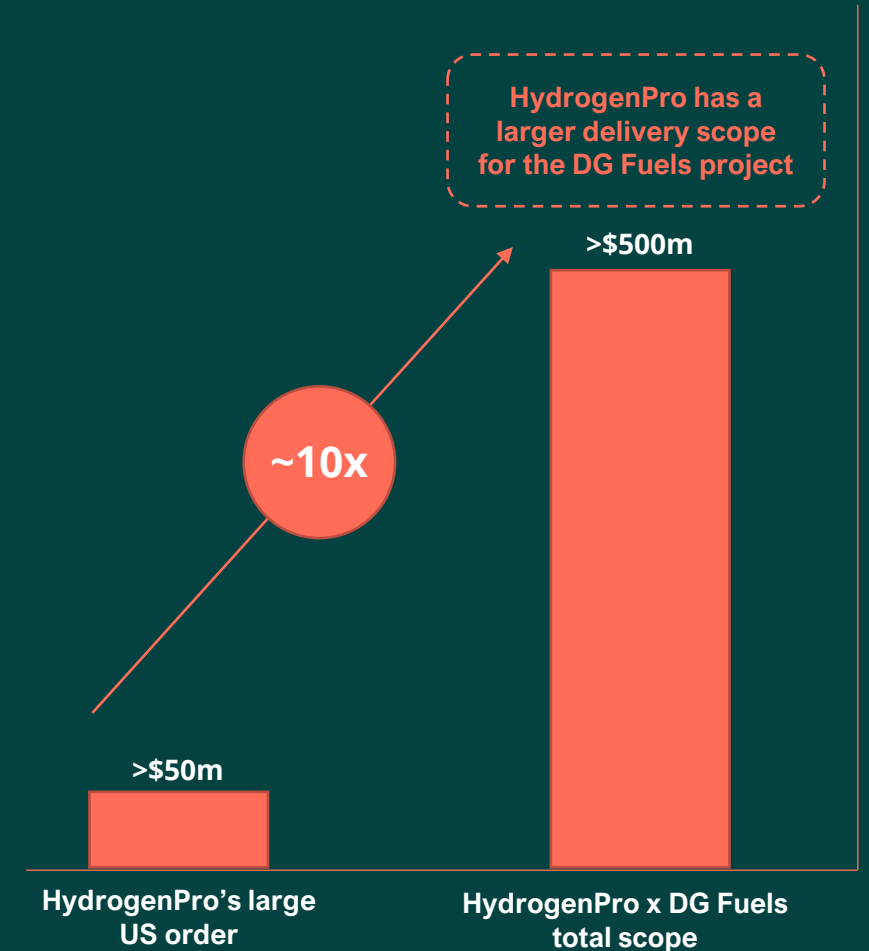


I. Highlights

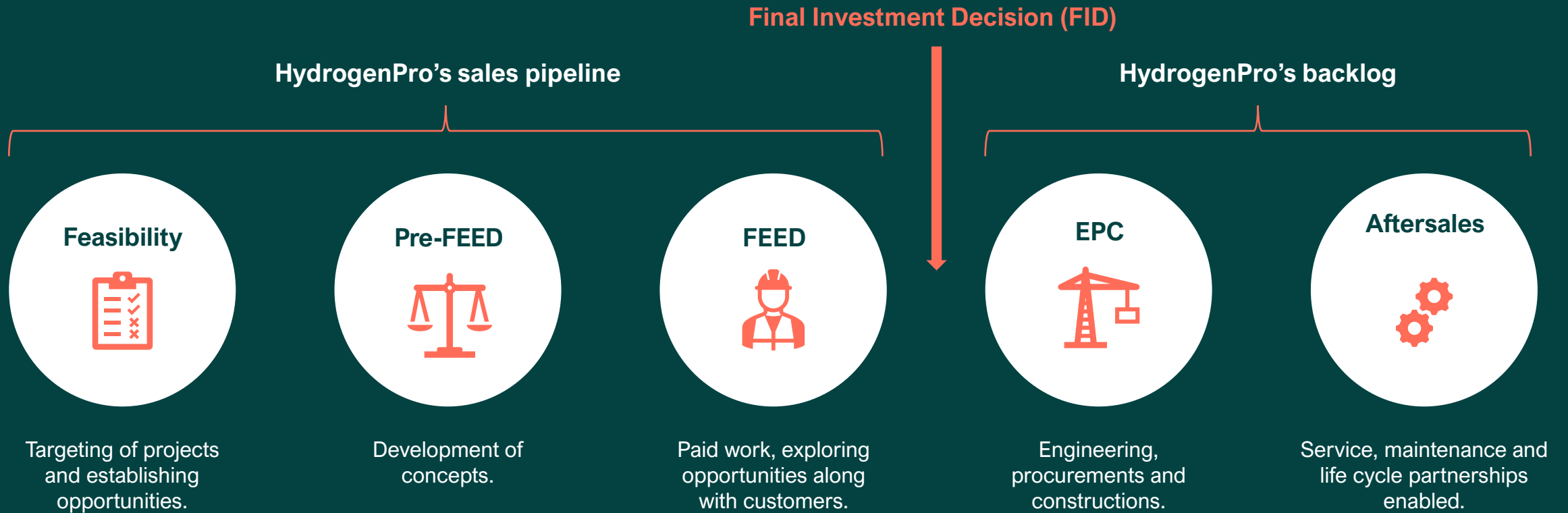
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Take-off for Sustainable Aviation Fuel: DG Fuels' project 10 times larger than any other confirmed green hydrogen project

- HydrogenPro is chosen as the supplier for alkaline high-pressure electrolyzers for DG Fuels' plant in Louisiana.
- HydrogenPro's contract with DG Fuels is worth >USD 500 million, excluding life cycle services.
- Firm Offtake Agreements with Delta Airlines¹ and Air France-KLM², and Inflation Reduction Act are major triggers to secure the project.
- Final Investment Decision (FID) expected in 2023.



DG Fuels project to be included in order backlog after FID



Status: Validation of the world's largest electrolyser

- Production, installation and commissioning at Herøya expected to be completed on 9th of November 2022.
- Power supply to the electrolyser is turned on and we are now producing gas.
- So far everything is as expected.
- Validation will run to year end 2022 and final details will be reviewed.

HQ and test center at Herøya, Porsgrunn



Testing of 3rd Gen electrolyser technology

- HydrogenPro's advanced electrode technology (3rd Gen) has been tested for the first 1000 hour run.
- First results show significant efficiency improvements.
- Details to be given in technology update.

Electrode testing at Herøya test facility



New office in Boston, USA

- Established new office in Prudential Tower.
- In line with strategy on global footprint.
- Important milestone in our US expansion together with large US order of 40 electrolyser systems and DG Fuels projects.

800 Boylston street, Boston, MA





II. Business update

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Highlights

Signing of Offtake Agreements making up **90% of total capacity** at DG Fuels' production plant in Louisiana.

Validation of the world's largest electrolyser expected commissioned on 9th of November 2022.

Q3 2022 financials – **revenues up 87%** vs. Q2 2022.

Backlog of **NOK 849 million** and active sales pipeline of **17 GW** / 115 projects.

Trading on the **main list on Oslo Stock Exchange** from 3rd of October 2022.

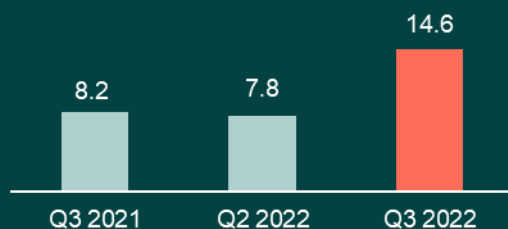
Tianjin manufacturing facility **further upgraded**.

HydrogenPro to start **recognizing revenue** from Mitsubishi Power contract in Q4 2022.

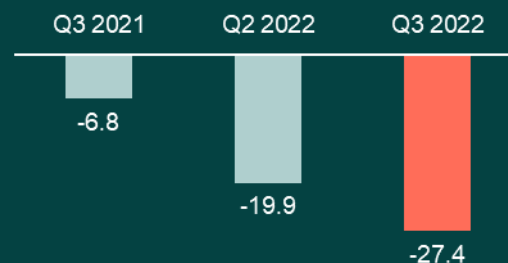
Q3 2022 financials

(NOK mill)

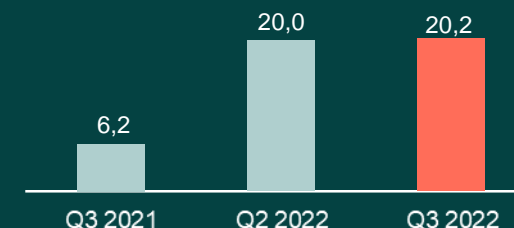
Revenues¹



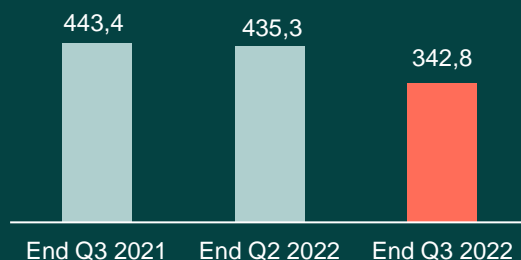
Adj. EBITDA²



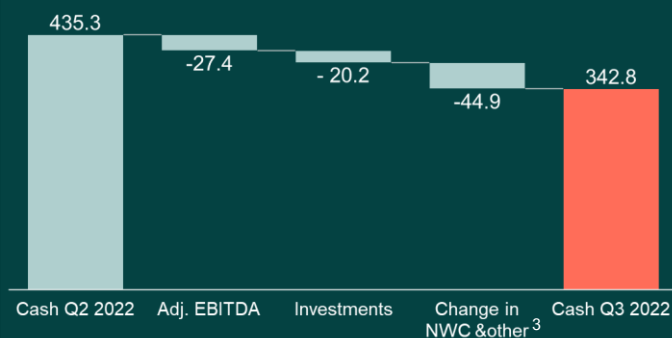
Net investments



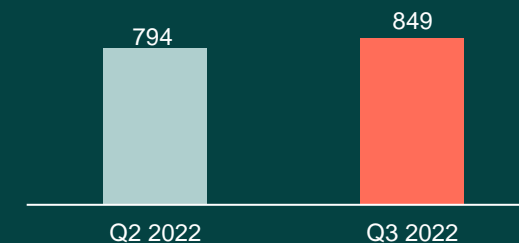
Cash balance



Change in cash balance



Backlog⁴



1) Revenue recognition Mitsubishi Power contract starting in Q4 .

2) Excl. non-cash impact of incentive program.

3) Change in NWC/Other: change in acc receivables (NOK -13.8m), increase in inventory in subsidiary (NOK -7.0m), prepayment of steel (NOK -24.9m), other (NOK 0.8m).

4) The increase in the backlog is due to an order intake of NOK 3 million, currency exchange fluctuations of NOK 66 million and recognized revenues of NOK 14 million.

Tianjin manufacturing facility

- Factory has been upgraded and is now producing another 5.5 MW electrolyser to be shipped to Japan.
- Manufacturing on-going with increased activity level.
- In total NOK 17 million invested in the manufacturing facility in Q3 2022.

Tianjin manufacturing facility



Tianjin factory

300
MW

Annual capacity

Revenue recognition and Q4 2022 capital spend

- Revenue recognition of the >USD 50 mill. contract with Mitsubishi Power starts in Q4 2022.
- From Q1 2023, HydrogenPro will recognize higher revenues as manufacturing process runs at full capacity.
- HydrogenPro expect to deliver close to 90% of the scope within the agreed >50 USD mill. contract with Mitsubishi Power by the end of 2023.

Main capital uses in Q4 2022:

- NOK 20-30 million remaining of upgrades in Tianjin factory.
- Building up systems and organisation for delivery on purchase orders.
- Validation of world's largest electrolyser
- Establishing new offices in Germany and Boston, USA.

HydrogenPro grows

	IPO (October 2020)	Q3 2022
Value chain position	Distributor	Technology owner & OEM ¹
Manufacturing capacity (p.a.)	0 MW	300 MW
Backlog	NOK 15 mill	NOK 849m
Active sales pipeline	1.5 GW	17 GW
# of employees	10	100 ²
Listing venue	Euronext Growth	Uplisted to the Oslo Stock Exchange main list ³

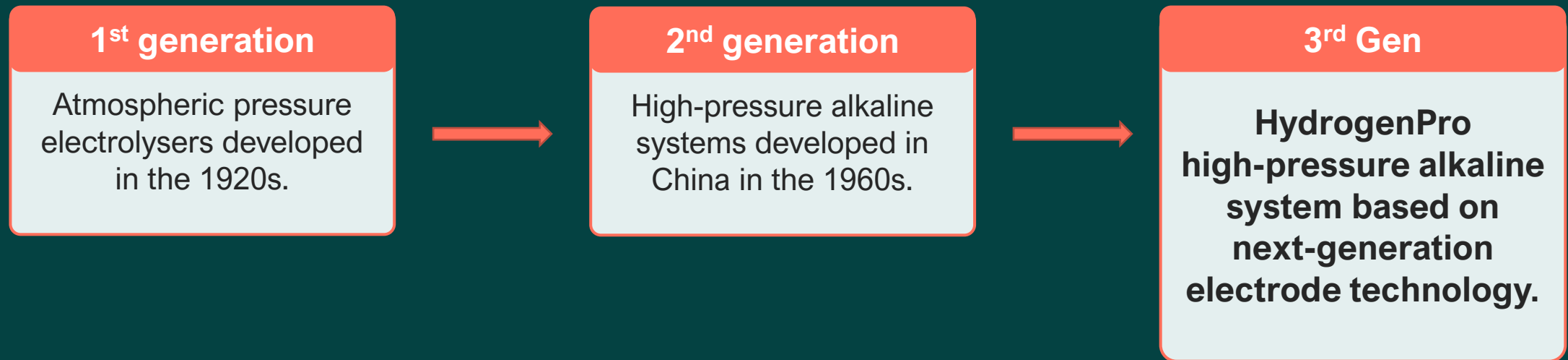
- 1) Original Equipment Manufacturer.
- 2) As of 1 November 2022.
- 3) First day of trading 3 October 2022.



III. Technology update

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The history of alkaline electrolyzers



Main components in a hydrogen factory

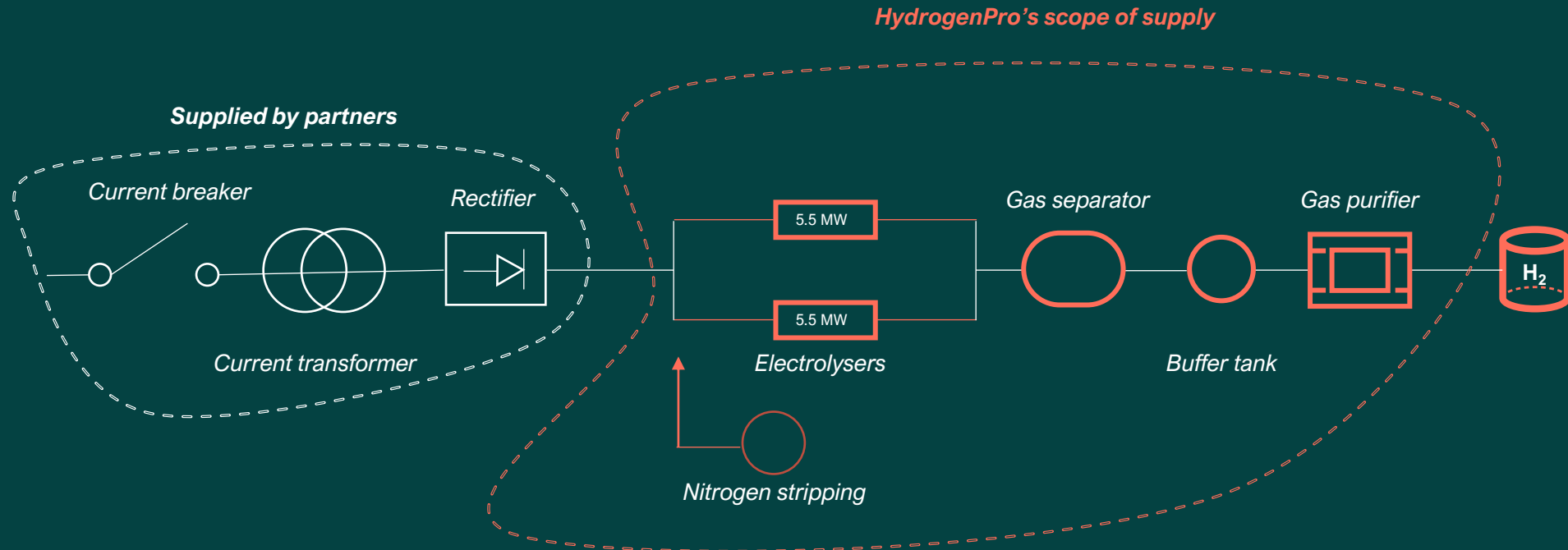
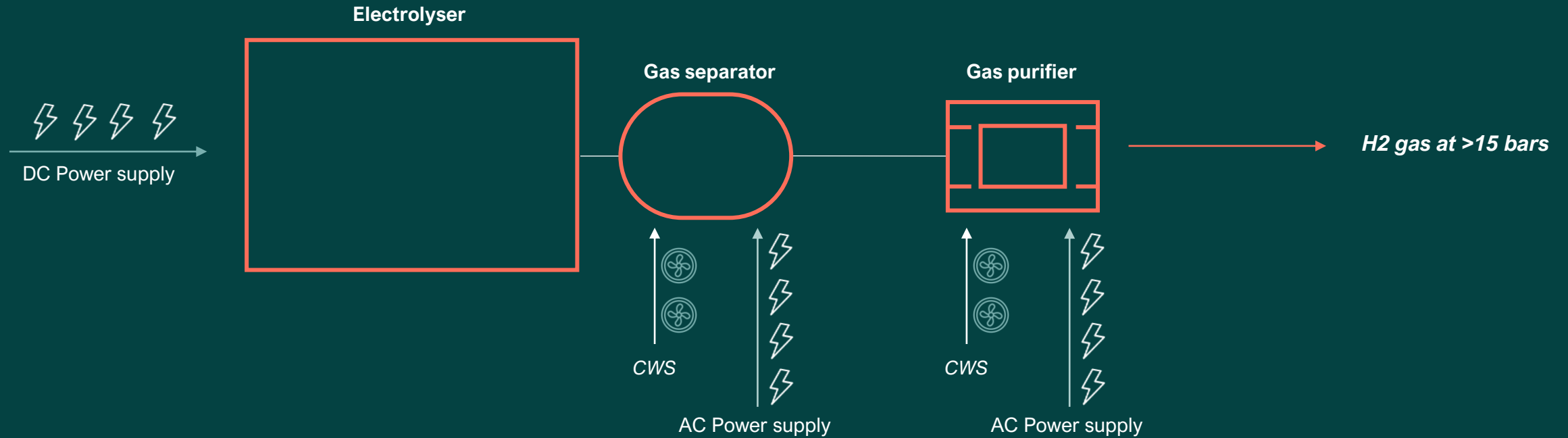


Illustration of electrolyser system for green hydrogen production

3rd Gen product technology and plant improvements

HydrogenPro's R&D focus areas



The HydrogenPro way to improve total efficiency

Production element	WHY	EFFECTS
New hydrogen gas purifying unit (2,200 m ³ gas/hr, 30 bar)	<i>The high pressure and flow will be customized for our existing system. Full independence between modules, lowering downtime for total installation.</i>	<i>Proprietary technology customized to our system enables increased efficiency, more hydrogen produced per unit of input and zero losses of gas.</i>
New electrolyser body	<i>Eliminate efficiency loss through shunt current. ($V = 0.41 \times \text{number of cells} \times \text{number of kiloamps (DC) kA} \times Z$)</i>	<i>Eliminates shunt current, widens operating range and increases hydrogen gas output. Target is to have $Z = 1$</i>
3rd Gen electrode	<i>The 2nd generation electrode is 25 years old and there are thus many areas of improvement, especially with regards to energy efficiency.</i>	<i>Reduces the energy needed to produce gas and reduced need for cooling water.</i>
New cooling system	<i>The new 3rd Gen electrode will have much higher efficiency, resulting in less heat generation.</i>	<i>Allows higher temperature on CWS and can reduce the use of water.</i>

Testing of 3rd Gen electrolyser technology

- HydrogenPro's advanced electrode technology (3rd Gen) has been tested for the first 1000 hour run.
- First results show significant efficiency improvements.
- First test run was completed with double current density and result shows a better efficiency at double current density compared to 2nd generation (commercial technology with 25 years history) electrodes at normal current density.
- **Next step:** Repeat same procedure for normal current density.

Small-scale test at technology center, Herøya





IV. Strategy

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HydrogenPro to become #1 large-scale provider of green hydrogen production plants

Technology Leader



- High-pressure alkaline electrolyzers.
- Next-generation electrode technology.

Global Footprint



- >1GW global production capacity in 2023.
- Partnerships & JVs.

Scalability



- Standardised and modular design.
- Capital light partnership model.

Life Cycle Partner



- Plant management and services.
- Recurring revenues on installed base.



HydrogenPro's high pressure alkaline technology has several advantages

	PEM	Alkaline	Alkaline	
	<i>High pressure</i>	<i>Atmospheric pressure</i>	<i>High pressure</i>	Hydrogen pro <i>Alkaline high pressure</i>
Plant efficiency	Low	Medium	Medium	High
Suitable for renewable energy input	Yes	No	Yes	Yes
Cooling need	High	Medium	Medium	Low
Overhaul Opex	High	High	Medium	Low
Use of noble materials	Yes	No	No	No
High pressure on O ₂	Medium	No	Yes	Yes





Building a global footprint to become #1 provider

- Worldwide production/assembly facilities:
 - Reduce cost from shipping, tolls and fees.
 - Local presence to secure service and aftersales.
 - Secure national political support.
 - Develop local supply chains.
- Partnering reduces upfront costs compared to wholly-owned fabrication sites.
- Industrial competence engineering capacity through partnerships with world-class fabrication and construction companies.

Reducing the CO2 footprint and being close to our customers is important.

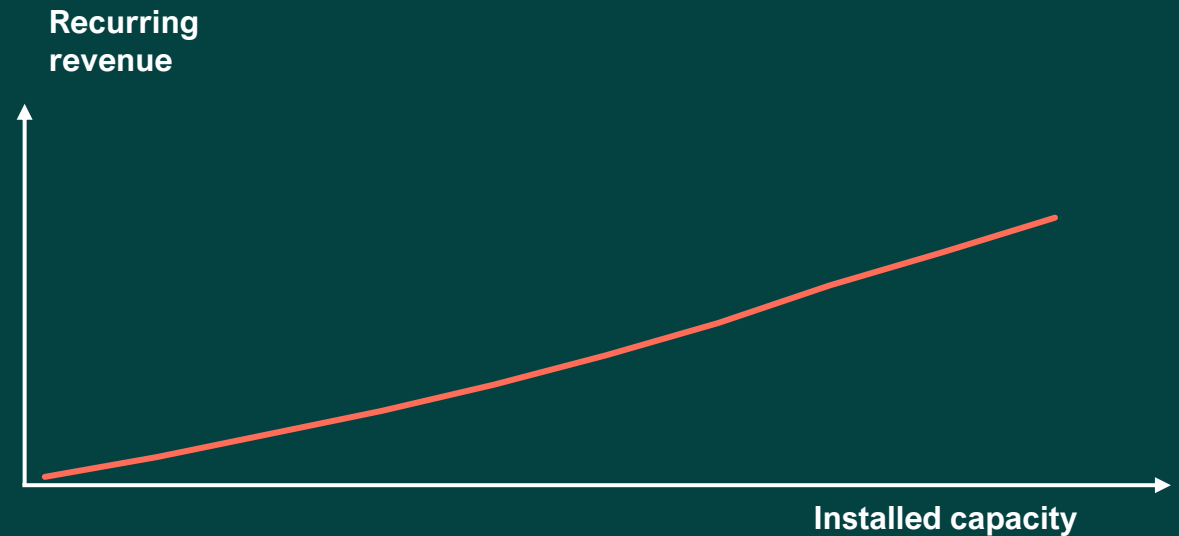


Life cycle model increases recurring revenues

Life cycle services include:

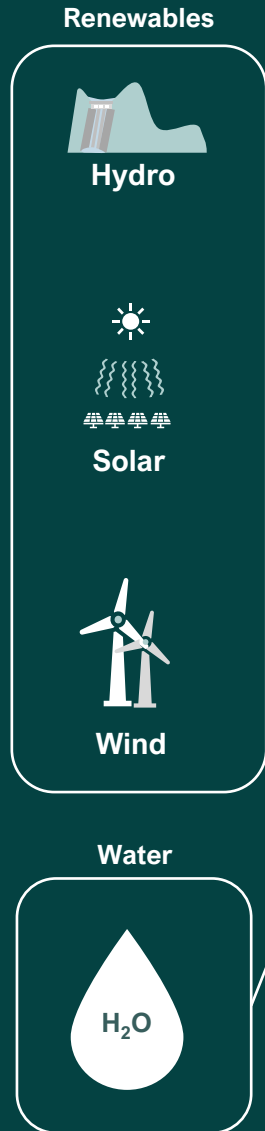
- Rapid response support.
- Service and overhaul.
- Production optimization.
- Remote and digital services.
- Predictive modelling.

Increase in installed base of plant deliveries
will accumulate recurring revenues

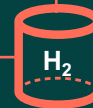


HydrogenPro's technology lays the foundation for rapid scale up of both partnerships and products

Green hydrogen enables renewable energy



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Sustainable Aviation Fuel (SAF) ready for takeoff





V. Summary

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Executive summary



Offtake agreements signed by DG Fuels make up the largest green hydrogen project globally. Estimated value is >USD 500 million.

Backlog of NOK 849 mill & active sales pipeline of 17 GW.

First test phase of advanced electrode technology completed – significant improvements. Validation of the world’s largest electrolyser expected commissioned on 9th of November 2022, and the electrolyser is producing gas.

Global expansion on track.

Revenue recognition on large US contract starting in Q4 2022.

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Pure Performance | Pure Efficiency | Pure **Power**