



Green Hydrogen Systems

Company introduction

June 2021

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Initial Public Offering of Green Hydrogen Systems A/S on Nasdaq Copenhagen

Offering structure, price and market value

Sale of new shares corresponding to **DKK 1,100m**

- Base offering of 27,500,000 new shares
- Overallotment option of up to 4,125,000 new shares (15% of base offering)

Net proceeds to be used to finance R&D efforts, scaling production and development facilities and strengthening of sales and marketing efforts and balance sheet

Price per share: **DKK 40.00**

- Valuation (pre-IPO): **DKK 2,014m**
- Free float (post-IPO): 42 - 45%¹

Time table

- Prospectus launch: 7 June
- Offer period: 8– 21 June
- Notification of allocation: 22 June
- First day of trading: 22 June
- Settlement: 24 June

The offer period may end before 21 June; however, not before 15 June 2021

Bank syndicate

- Joint Global Coordinators: ABG Sundal Collier, Carnegie and JP Morgan

Cornerstone investors and other commitments

A number of cornerstone investors have committed to subscribe for shares corresponding to a total amount of DKK 570m. The investors comprise:

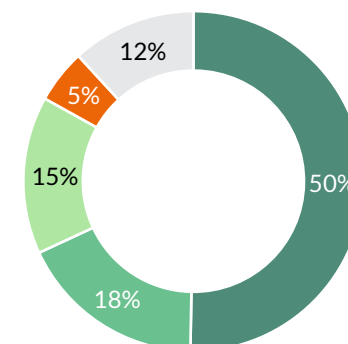
- ATP: DKK 200m
- Vækstfonden: DKK 100m
- BankInvest: DKK 100m
- Nordea Asset Management: DKK 100m
- Spar Nord: DKK 45m
- MK Ventures: DKK 25m

Existing shareholders and members of the Board of Directors have committed to subscribe for shares corresponding to:

- Nordic Alpha Partners DKK 37m
- A.P. Møller Holding DKK 37m
- Norlys Holding DKK 4m
- Members of the Board DKK 7.75m

Total commitment of DKK 656m

Pre-IPO shareholders




- Nordic Alpha Partners
- A.P. Møller Holding
- Norlys Holding
- Management and Board of Directors
- Other existing shareholders

Lock-up

- The Company and main shareholders have agreed to a lock-up of 180 days
- The members of the Board of Directors, Executive Management and Key Employees have agreed to a lock-up of 360 days

Executive management team

 Today's presenters



**Sebastian
Koks Andreassen**
CEO

Joined GHS in 2020
+15 years experience in
energy sector



- **CEO¹**
INEOS Oil & Gas
Scandinavia
- **CFO of Oil and Gas, SVP¹**
Ørsted
- **Associate Director,
Acquisitions**
Copenhagen Airports



**Kenneth
Bergstrøm-Andersen**
CFO

Joined GHS in 2020
+20 years CFO experience



- **VP Finance**
DOVISTA
- **Group CFO (Interim)**
Tvilum
- **Regional CFO, Northern
Europe (Interim)**
JELD-WEN
- **Group CFO & Executive
VP**
Tajco Group



**Troels
Hornsved**
COO

Joined GHS in 2020
+6 years experience in
energy sector



- **VP, Supply Chain &
Operations**
Universal Robots
- **Senior Manager,
Production¹**
Vestas
- **Operations Development
Manager**
Martin Professional
- **Logistics Engineer**
Grundfos



**Jørgen
Krogsgaard Jensen**
CTO

Joined GHS in 2007
+29 years experience in
energy sector



- **Engineering Manager,
Cooling Solutions**
Schneider Electric
- **Technical Leader,
UPS 800-1,000 kW**
APC



**Søren
Rydbirk**
CCO

Joined GHS in 2021
+5 years experience in the
energy sector



- **Senior VP, Head of
Service Business Unit**
FLSmidth
- **VP, Head of
Commercial**
Vestas
- **Director, Business Dev.
and Marketing**
Novozymes
- **Management
Consultant**
McKinsey & Company



Introduction to Green Hydrogen Systems

Green Hydrogen Systems electrolyser

Hydrogen to play an instrumental role in reaching global targets for curbing the threat of climate change

Common goal of reducing emissions to curb climate change

66 countries globally have announced commitments to reach net-zero emissions by 2050

55% reduction in EU greenhouse gas ("GHG") emissions targeted by 2030¹

The world's energy mix remains heavily dependent on fossil fuels

European primary energy demand by source (2017)²



Major challenges exist to reaching decarbonisation goals

1

The sectors emitting the most GHG depend heavily on fossil fuels and are **difficult to decarbonise**

Industry ~30% **Transportation** ~21% **Buildings** ~15%

% contribution to total EU GHG emissions³

2

Widescale integration of renewable energy requires a viable energy carrier and storage solution to bridge intermittent supply and demand

Supply

Renewable energy exhibits short- and long-term variation



Demand

Intra-day, weekly and seasonal variations are sizable



Hydrogen can be instrumental in meeting these challenges

Key advantages of hydrogen



Near-zero emissions when produced (if produced as green hydrogen using renewable energy) and when used⁴



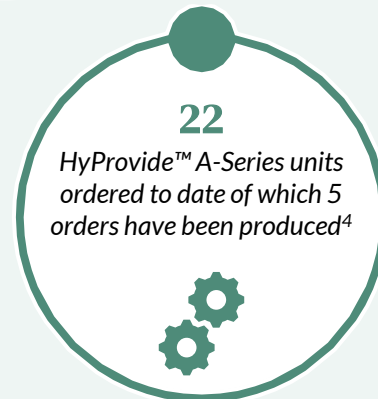
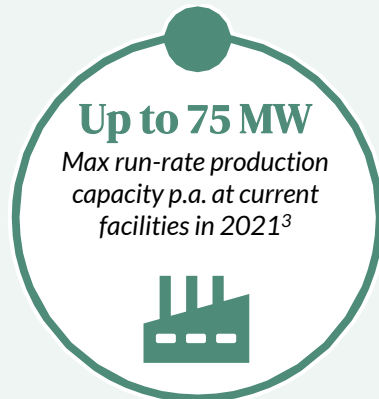
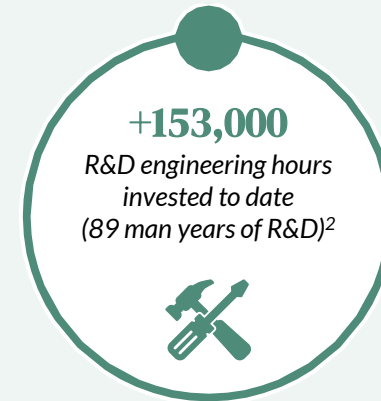
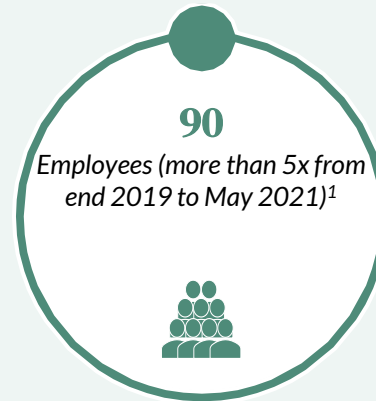
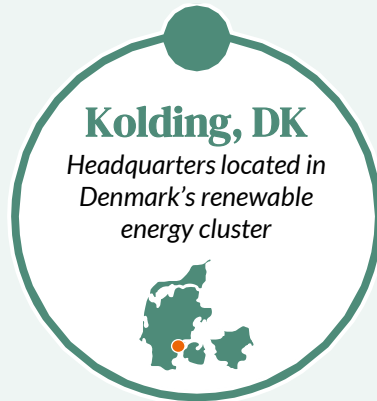
Highly versatile with both direct applications in transportation and industry, indirect applications in Power-to-X and for grid stabilisation⁵



High gravimetric energy density, allowing easy and efficient storage and transportation of energy over time and distance⁶

GHS provides a leading technology for production of green hydrogen, distributed to the growing market for renewable energy solutions

Introduction to GHS



GHS is a strong ESG-case with an ambition of being a pioneer in driving the sustainable energy transition

Innovation in sustainable technology



- ✓ Enabling hydrogen production from renewable energy sources
- ✓ Technology independent of scarce resources
- ✓ Reduced complexity and environmental footprint from assembly-based production
- ✓ Green hydrogen to play a key role in decarbonising global energy systems:

~0 Near-zero emissions (kg CO₂e/kgH₂) when produced and consumed

50% CO₂ % avoidance potential of total EU gap to reach 2DS in 2050¹

Safety & health is priority #1



- ✓ Attentiveness and a “take care” safety-mindset central to the company culture
- ✓ Risk mitigation and preparedness secured through clear internal policies and guidelines
- ✓ Immediate registration and handling of incidents – whether on-site or off-site
- ✓ Responsible and safe business operations throughout the supply-chain:

Suppliers

Employees

Customers



Committed to corporate social responsibility








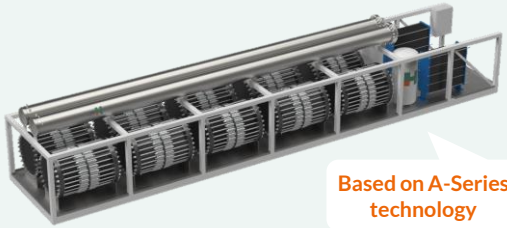
- ✓ Committed to company governance emphasising diversity and inclusion
- ✓ Active promotion of sustainable practises in all activities
- ✓ Research partnerships driving increased activity and sustainable innovation
- ✓ Social impact through contribution to the growing hydrogen economy:

1m Jobs in the EU hydrogen economy by 2050²




+300 Number of employees in GHS towards 2025

GHS is an OEM and clean tech company offering a range of pressurised alkaline electrolysis units and supporting services

Electrolysis units overview

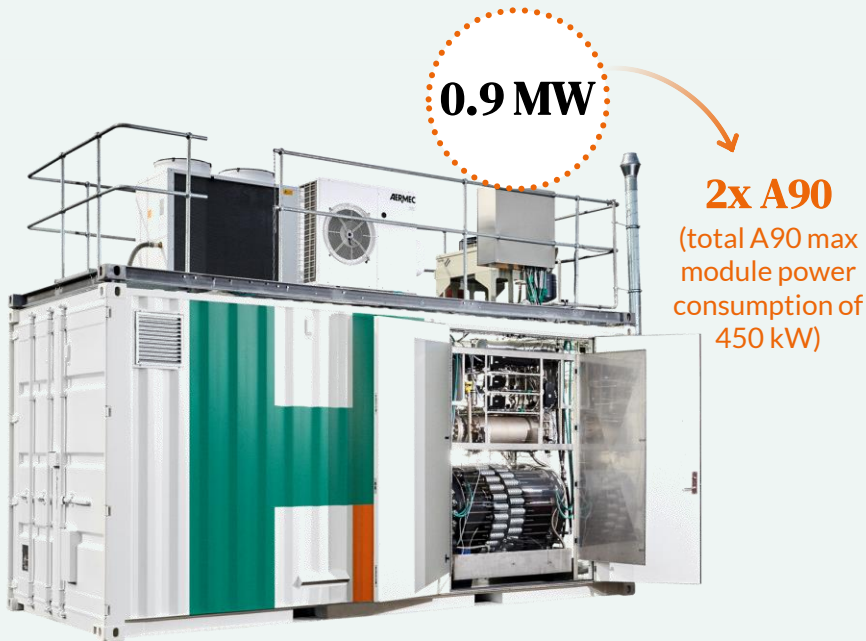
HyProvide™ A-Series					HyProvide™ X-Series
Current offering					Under development
A30	A60	A90	A120	A150	X-versions ¹
					
Power consumption (kW) ²					Power consumption (kW) ²
150	300	450	600	750	5 – 7,500 ⁴ <i>(Upcoming series catering for larger projects)</i>
Units ordered (accumulated to date ³)					Pre-sales: 2021
3	4	15	n/a	n/a	

Ancillary solutions and supporting services

	Containerised solutions ⁵
	Installation and engineering services ⁶
	Service & Maintenance (contracts) for installed units ⁶

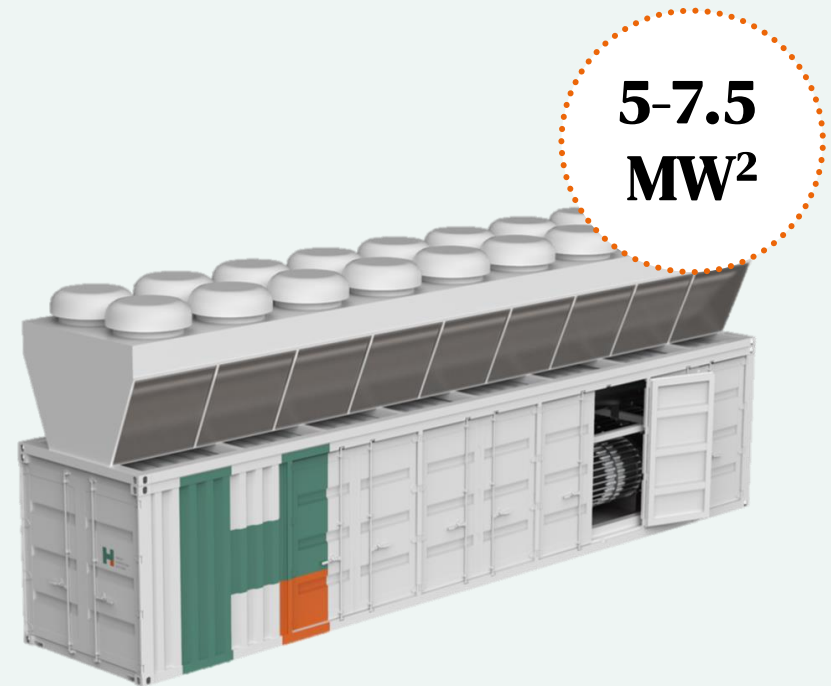
A-Series containerised unit offers a 0.9 MW modular, plug-and-play solution – containerised X-Series expected to enable up to 7.5 MW

HyProvide A-Series containerised solution



20-foot or 40-foot containers comprising 1-2x A90¹
(includes auxiliary systems)

HyProvide X-Series containerised solution



Upcoming 40-foot container comprising 1x X-Series
(excludes auxiliary systems)

GHS leverages its existing technology platform in development of the X-Series

HyProvide™ A-Series

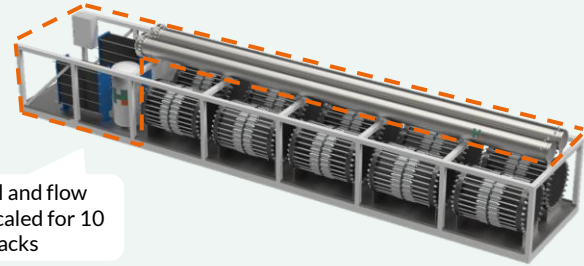
HyProvide™ X-Series

Balance of plant



Scaling of balance of plant requires limited R&D effort

Control and flow system scaled for 10 stacks



Stack




GHS' core technology
Development based on the existing technology platform

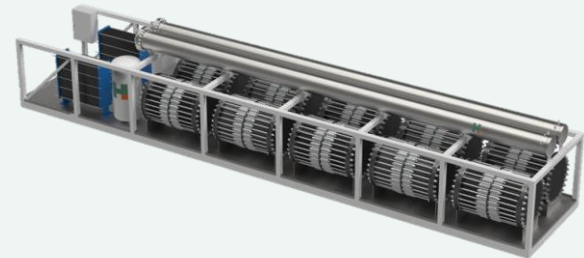


x 10

Electrolyser rack



X-Series is a continuation of the A-Series technology
Both platforms feature GHS' modular design philosophy





Key highlights of Green Hydrogen Systems

Nilsson Energy refuelling station in Mariestad, Sweden, powered by GHS electrolyzers with energy sourced directly from solar panels to power ~20 hydrogen cars



GHS is well-positioned to take advantage of the growing demand for green hydrogen

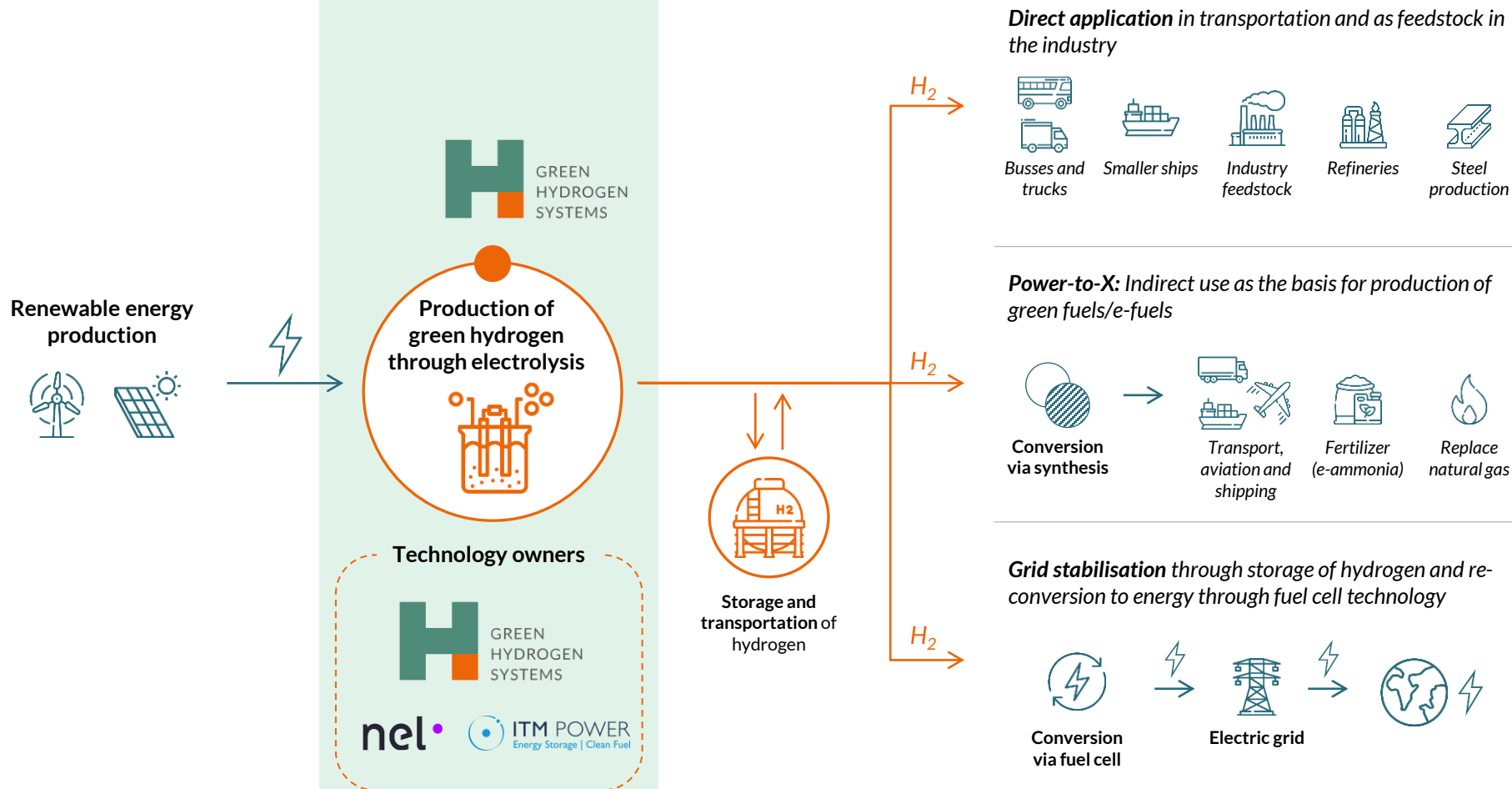
- i** **High-growth market** experiencing significant momentum as green hydrogen is set to be a **key enabler for decarbonisation** of global societies
- ii** **Commercially proven platform** with clear pathway to position **GHS as a leading supplier** to the hydrogen economy
- iii** **Ongoing scale-up of existing production facilities** to meet surging demand
- iv** **Competitive edge through favourable technological fundamentals and versatile system design**
- v** **Clear cost-out plan in place to drive down LCOH¹**
- vi** **Organisational backbone and infrastructure in place to capture accelerated growth**





Green hydrogen to take a central role at the heart of the future energy system covering all parts of global societies

Green hydrogen's role in the future energy system





Policy and industry forces are converging to create momentum in the hydrogen sector

Drivers of renewed interest in hydrogen



Stronger push to limit carbon emissions

55%

reduction in European GHG emissions targeted by 2030

66

countries have announced net-zero emissions targets by 2050



Falling costs of renewables and hydrogen technologies

80%

decrease in global average renewable energy prices since 2010

Up to 50%

estimated cost decrease of hydrogen towards 2030

Indicators of hydrogen's growing momentum



Strategic push in national hydrogen roadmaps

+70%

share of global GDP linked to hydrogen country roadmaps to date¹

EUR 24-42bn

potential EU investments in electrolyzers towards 2030⁴



Industry alliances supporting large investments

+100

members of the Hydrogen Council today, up from 13 members in 2017

+138 GW

electrolysis capacity in announced projects globally⁵

European hydrogen roadmaps²

- National hydrogen strategy in place
- National hydrogen strategy in preparation

Key elements in the EU's hydrogen strategy ("green deal")⁴



H₂ production capacity investments of EUR 180-470bn towards 2050



6 GW electrolyser capacity by 2024 and by 2030 40GW in EU plus 40GW externally



Up to 1m jobs in the hydrogen economy by 2050

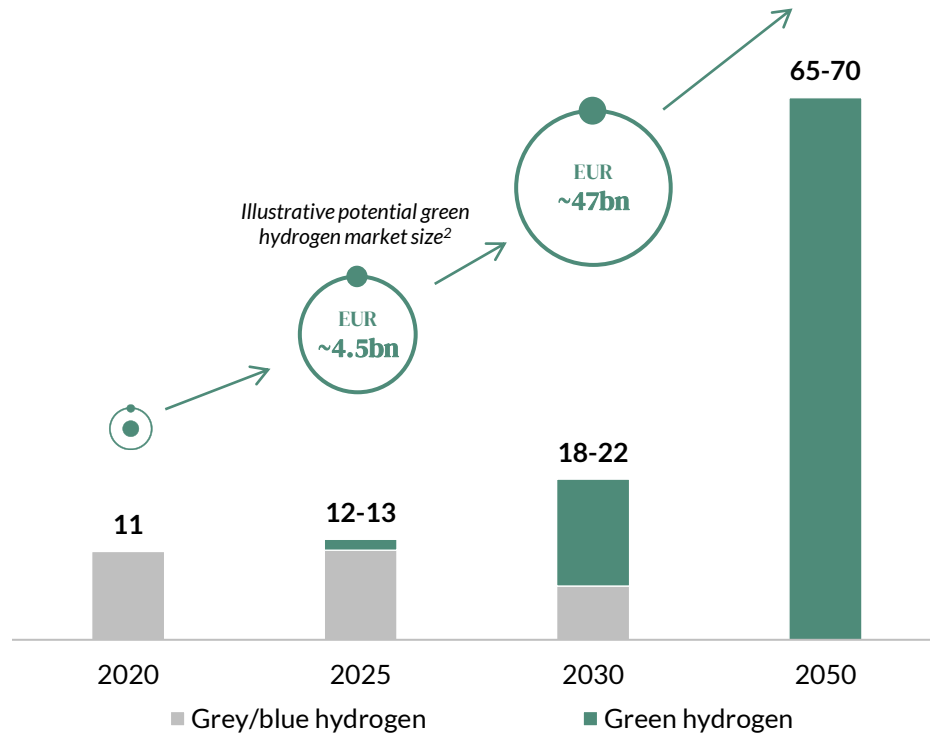
53,000 new jobs in Denmark by 2030 and 50-84 DKKbn in exports of green energy³



Demand for green hydrogen is surging, requiring significant scale-up of electrolysis capacity

Estimated future demand for hydrogen in the EU¹

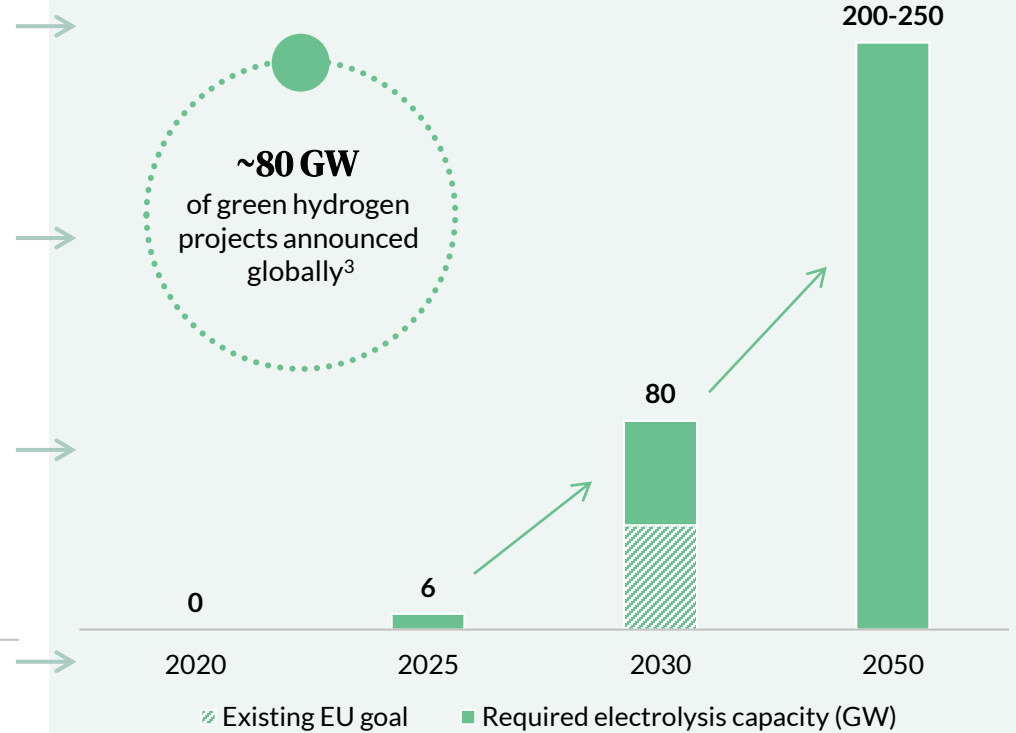
From Dansk Energi. Hydrogen demand in million tonnes H₂



Demand for hydrogen in Europe is expected to expand significantly

Required electrolysis capacity to meet EU demand¹

From Dansk Energi. Electrolysis capacity in GW



To meet demand, supply must increase considerably from highly limited current capacity

Notes: 1) EU-27; 2) Calculated from Dansk Energi (2020) (volume estimate) and EA Energianalyse (2020) (price estimates): 6 GW is estimated to produce 1.5 million tonnes H₂, price per kg H₂ estimated at 22.43 DKK/kgH₂ (~3.0 EUR/kgH₂) in 2025 which multiplied yields an expected market size of EUR ~4.5bn by 2025. In 2030, 80 GW is estimated to produce 20 million tonnes H₂, with price per kg H₂ estimated at 17.61 DKK/kgH₂ in 2030 (~2.4 EUR/kgH₂) - multiplied with expected million tonnes yields market size of EUR ~47m; 3) Recharge News - Gigawatt scale: the world's largest 13 green-hydrogen projects (2020). Source: Dansk Energi - Anbefalinger til en dansk strategi for Power-To-X (2020); EA Energianalyse - Brint og PtX i fremtidens energisystem (2020); Recharge News - Gigawatt-scale: the world's 13 largest green-hydrogen projects (2020)



GHS offers a commercially proven platform blue stamped by key industry players

GHS' backlog, commercial agreements and pipeline





GHS partnership project, GreenHyScale, has been selected for the EU's Horizon 2020 funding programme

100MW electrolysis call

- Part of the overall EU Green Deal and the Horizon 2020 Framework programme
- The purpose of the project is the development and demonstration of **100MW** electrolysis system with a minimum of two years of operation from the end of 2024
- A grant from the EU may potentially provide **50% funding** of the costs to the 100MW electrolysis capacity

Project requirements

- ✓ Footprint
- ✓ CAPEX requirements
- ✓ Degradation levels
- ✓ Levelised cost of energy
- ✓ Efficiency levels
- ✓ Current density

GreenHyScale project overview



Purpose

Pave the way for large-scale deployment of electrolysis – both onshore and offshore

Timing and Location

Will run in parallel with GreenLab Skive

To be located on or adjacent to the GreenLab Skive facility

6 MW

To be demonstrated as the first step



GHS will also deliver **7.5MW** for offshore deployment

100 MW

Subject to performance of first 6MW



If 100 MW is to be delivered to the GreenHyScale project, GHS will be the sole supplier of necessary electrolyzers

Clear commercial go-to-market strategy of focused, widening geographic coverage and increasing project scope

Strategic priorities

- 1 Launch local sales resources in identified core markets
- 2 Develop 50 – 100+ MW market with a particular focus on industrial segment
- 3 Increase GHS technology and product awareness through scaled marketing efforts
- 4 Launch strengthened operations and maintenance strategy
- 5 Accelerate development of X-Series to meet market demand for increased project scope
- 6 Strengthen supply chain with EPC partnerships and secure manufacturing scale-up

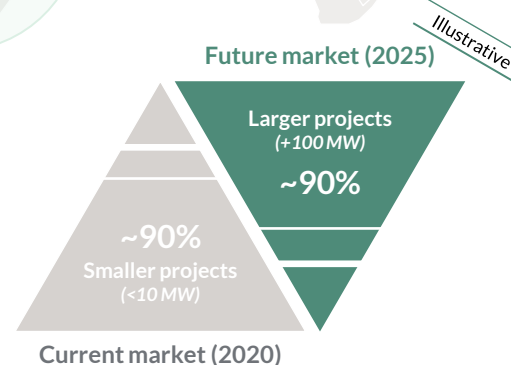
1 Focused widening geography

Addressable markets¹

- Focus markets (13)
- Opportunity markets (14+)
- Opportunity region
- Markets with realised sales or secured orders

2 Increased project scope

Market demand is expected to increasingly consist of centralised projects, with scopes reaching well beyond 10 MW per project



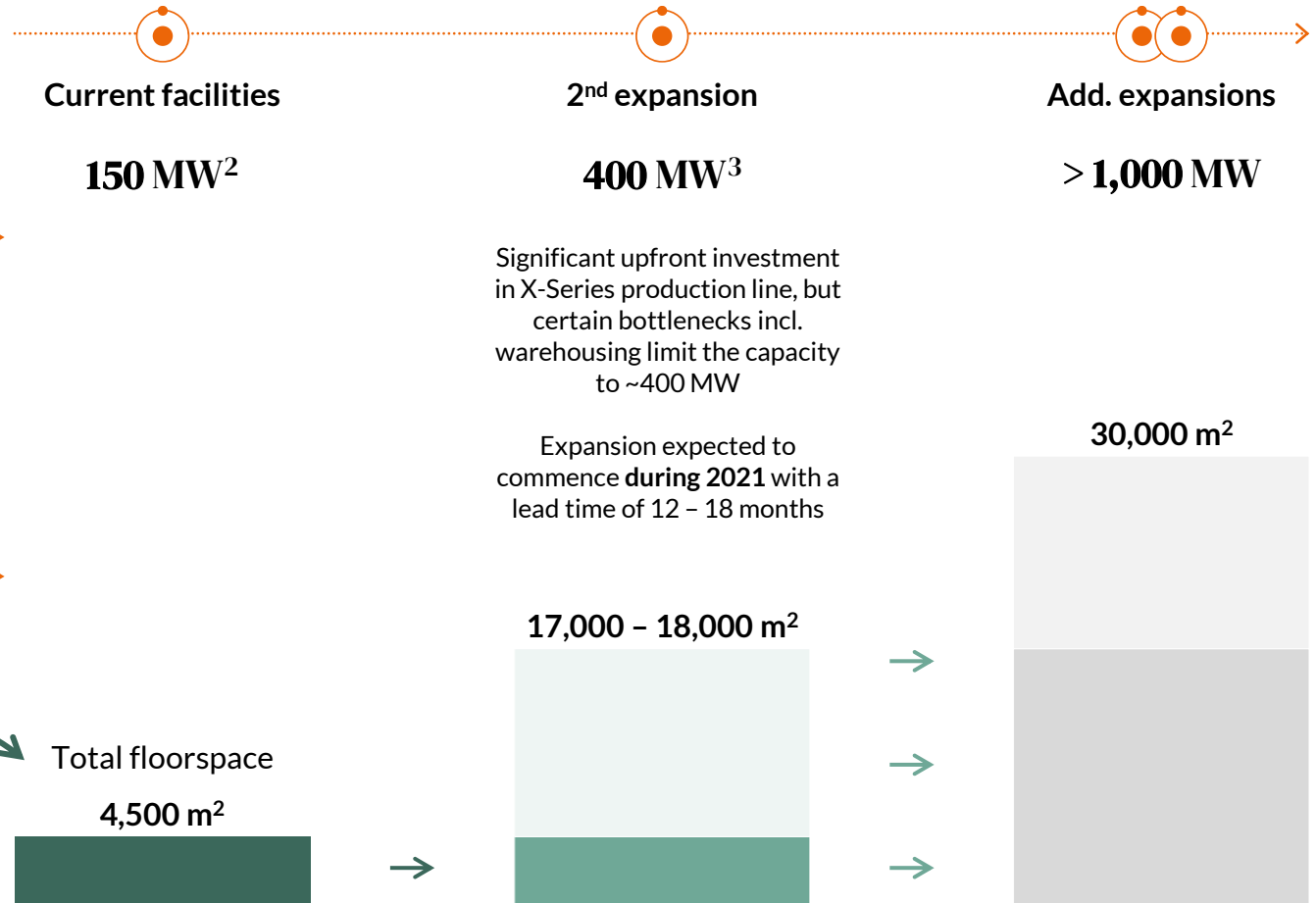
The scalable product platform enables GHS to meet the increasing demand for centralised projects exceeding 10MW



Ongoing scale-up to meet surging demand with clear plan for scaling current production site to +1,000 MW capacity

Ramp-up of production capacity¹

- New facilities inaugurated in November 2020; 6x larger than previous site
- Timing of ramp-up will be driven by GHS' commercial traction
- The Nordager production site is designed to be a standardised **factory blueprint** for efficient construction of additional production sites once commercially substantiated by order pipeline
- The Nordager site impacts GHS' financials through leasing costs related to the building(s) and CAPEX related to equipment, machinery and own-developed test facilities



Capacity estimates include three shifts, new product launches and production efficiencies

GHS offers a well-positioned solution with several key selling parameters

FLEXIBLE

Solid capacity to operate dynamically at variable load rates

EFFICIENT

Competitive energy to hydrogen conversion rate

RELIABLE

High level of system uptime and durability

INDEPENDENT
OF NOBLE
METALS

Free from use of rare, noble metals such as iridium and platinum

MINIMUM
FOOTPRINT

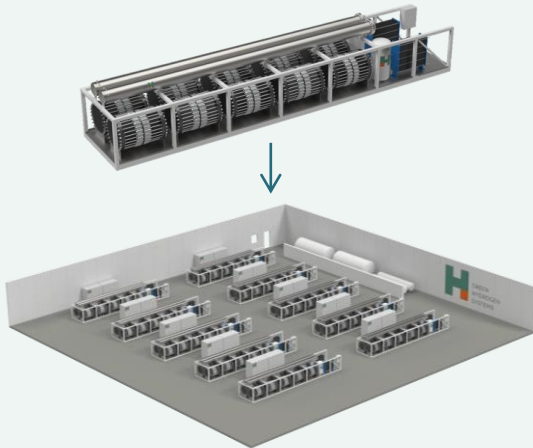
Minimal footprint relative to other electrolyser technologies

GHS' electrolyzers have a modular and versatile design and are suited for serial production

GHS provides a modular and versatile solution that is suited for scale-up and serial production

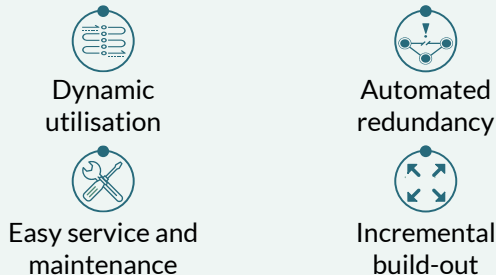
Modularity

Incremental build-out of plant exemplifies suitability for large-scale applications



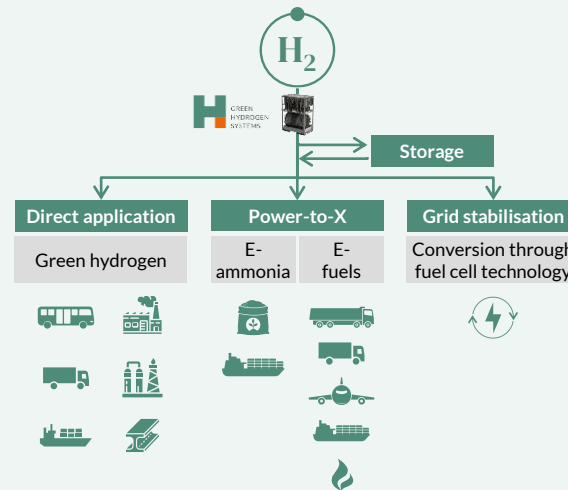
Illustrative 50 MW installation

Clustered solution

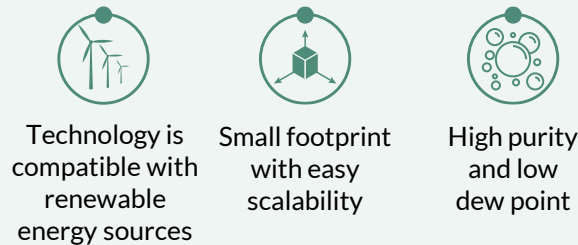


Versatility

Viable solution for all direct/indirect applications

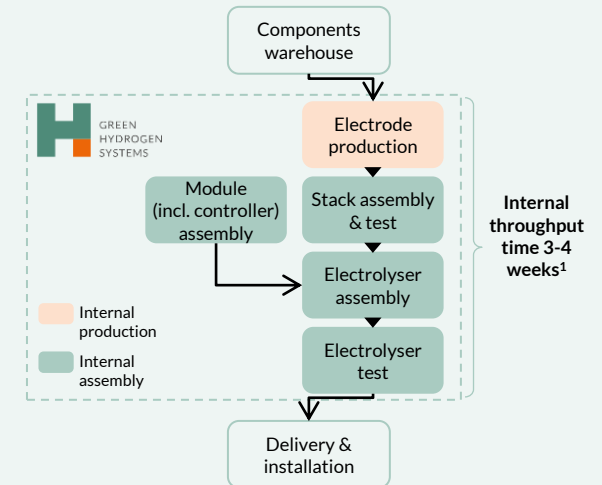


Key enablers for versatility



Serial production

Limited customisation allows for serial production



Standardised modules

Enables assembly-focused production setup and industrial approach to sourcing

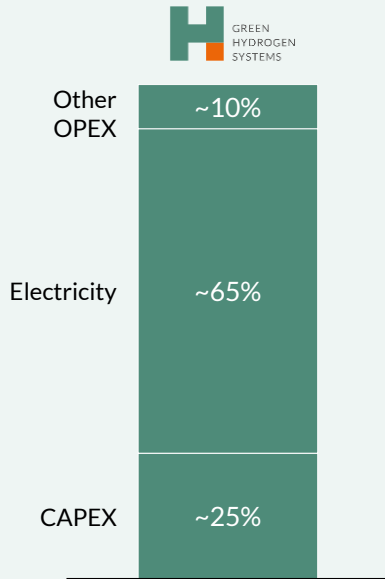




GHS can significantly influence key LCOH factors, enabling further cost-out potential

GHS' LCOH breakdown¹

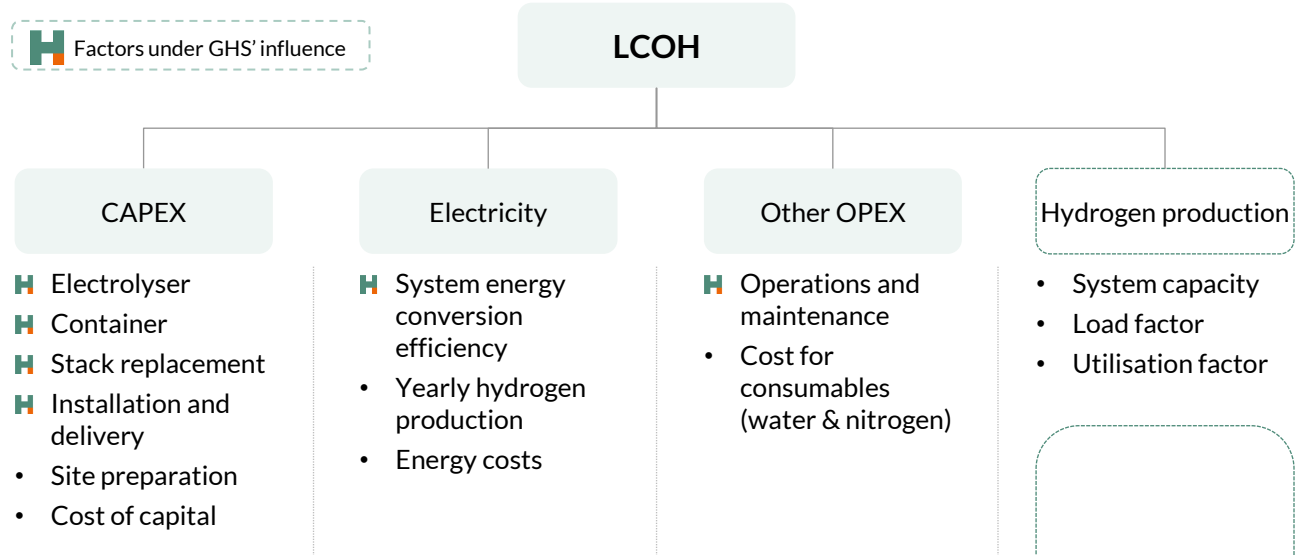
LCOH starting point estimated as competitive across technology regimes and competitors



Expected LCOH development



GHS has influence over majority of LCOH factors



GHS' ability to affect costs and cost-out potential over time



GHS' ability to affect costs²

Cost-out potential³

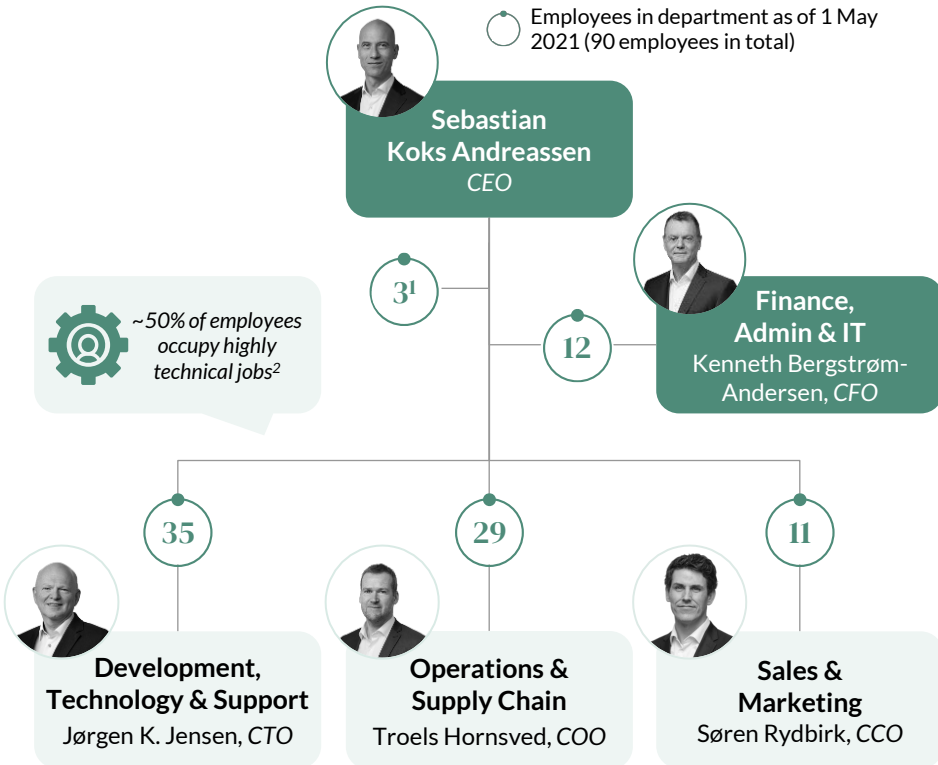
Underlying production assumptions for LCOH calculation



Management team with high level of energy-sector and technology expertise backed by a professional Board of Directors

Organisational overview

○ Employees in department as of 1 May 2021 (90 employees in total)



Board of Directors

● Independent³

Thyge Boserup
Chairman of the Board
GREEN HYDROGEN SYSTEMS, Ørsted, SAXO BANK, Danisco

Troels Øberg
Vice Chairman of the Board
NORDIC ALPHA PARTNERS, AGROINTELLI, Floil: Ørsted

Thomas T. Andersen⁴
Board member
Ørsted, VKR, IMI, MÆRKE

Christian Clausen⁵
Board member
6, SAMPO, NORDIC ALPHA PARTNERS, BainCapital, Nordea

Jakob Fuhr Hansen
Board member
NORDIC ALPHA PARTNERS, AGROINTELLI, Re-Match, VF

Karen-Marie Katholm
Board member
DUPONT, NTG Nordic, TERMA

Lars Bertelsen
Board member
NORLYS, eniig, Aros Capital, EY

Simon Ibsen
Board member
A.P.-MØLLER, KK



Guidance, medium-term targets and use of proceeds

GHS' guidance for 2021

Guidance:

2021

Revenue¹

DKK 40-60m

Gross profit²

Broadly neutral in absolute terms

EBITDA

DKK -105m to -115m

EBIT

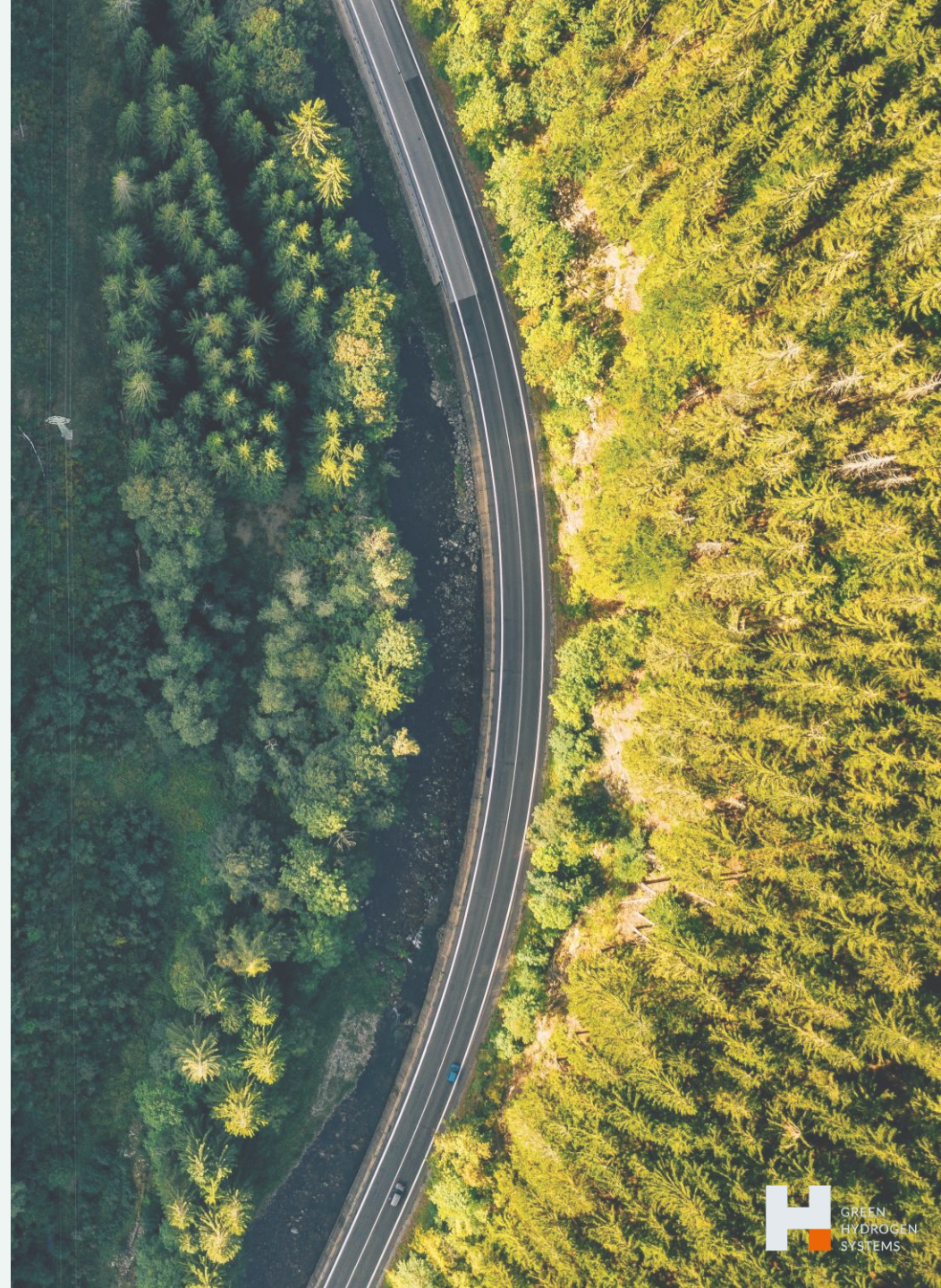
DKK -120m to -130m

R&D

DKK 75-85m

CAPEX

DKK 30-35m
(CAPEX related to production and development equipment)



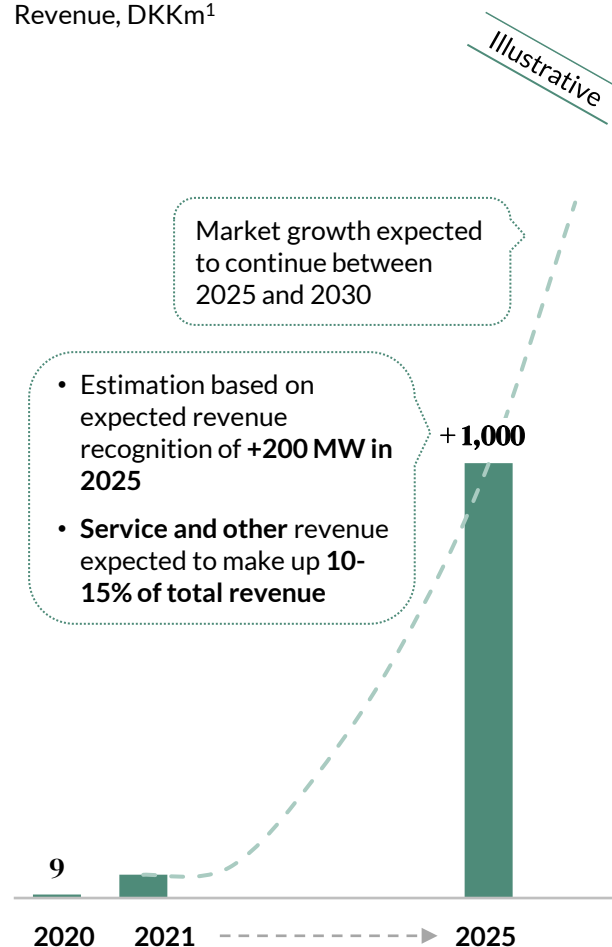
GHS' medium-term targets

Medium-term targets: 2025

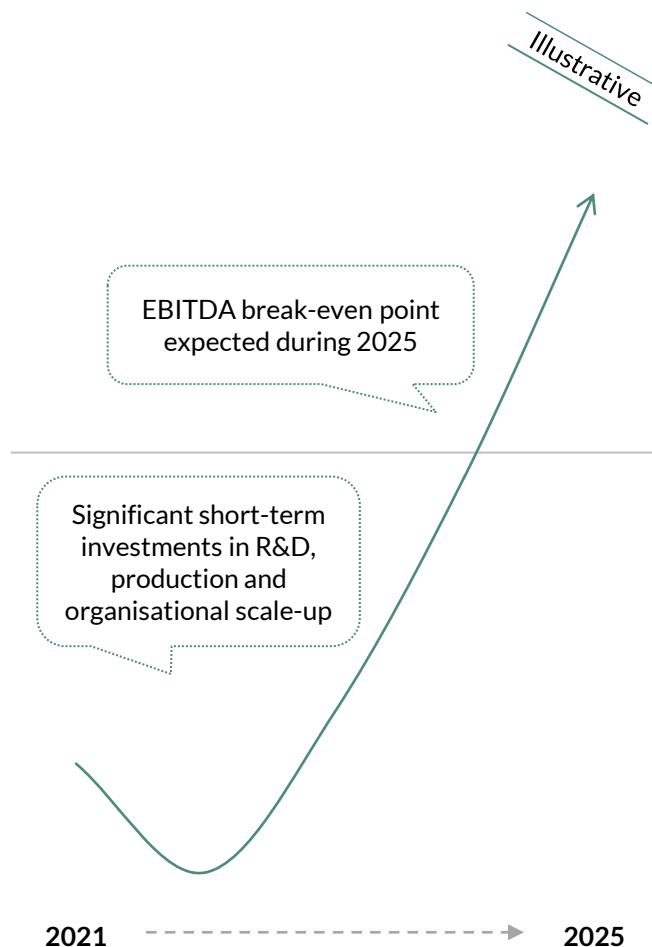
Revenue ¹	DKK +1,000m
Gross profit ²	~25% Gross profit margin by 2025
EBITDA	Upper-end single-digit margin by 2025
R&D	DKK ~450m total R&D spend towards 2025 (of which ~10% is expensed)
CAPEX	DKK ~400m Total CAPEX spend towards 2025 (CAPEX related to production and development equipment)

Targeted revenue development

Revenue, DKKm¹



Targeted EBITDA development



Vision

Green Hydrogen Systems will pioneer the field of green hydrogen to drive a sustainable global energy transition

Mission

Advance and deploy our modular, standardised and versatile best-in-class electrolyser technology to drive and develop the market and meet the demand from customers and other stakeholders

Green Hydrogen Systems is well-positioned for an attractive growth trajectory, based on promising market and business fundamentals



Attractive and rapidly expanding market driven by the need for a decarbonised energy system



Favourably positioned with a commercially proven platform based on strong technological fundamentals and system design



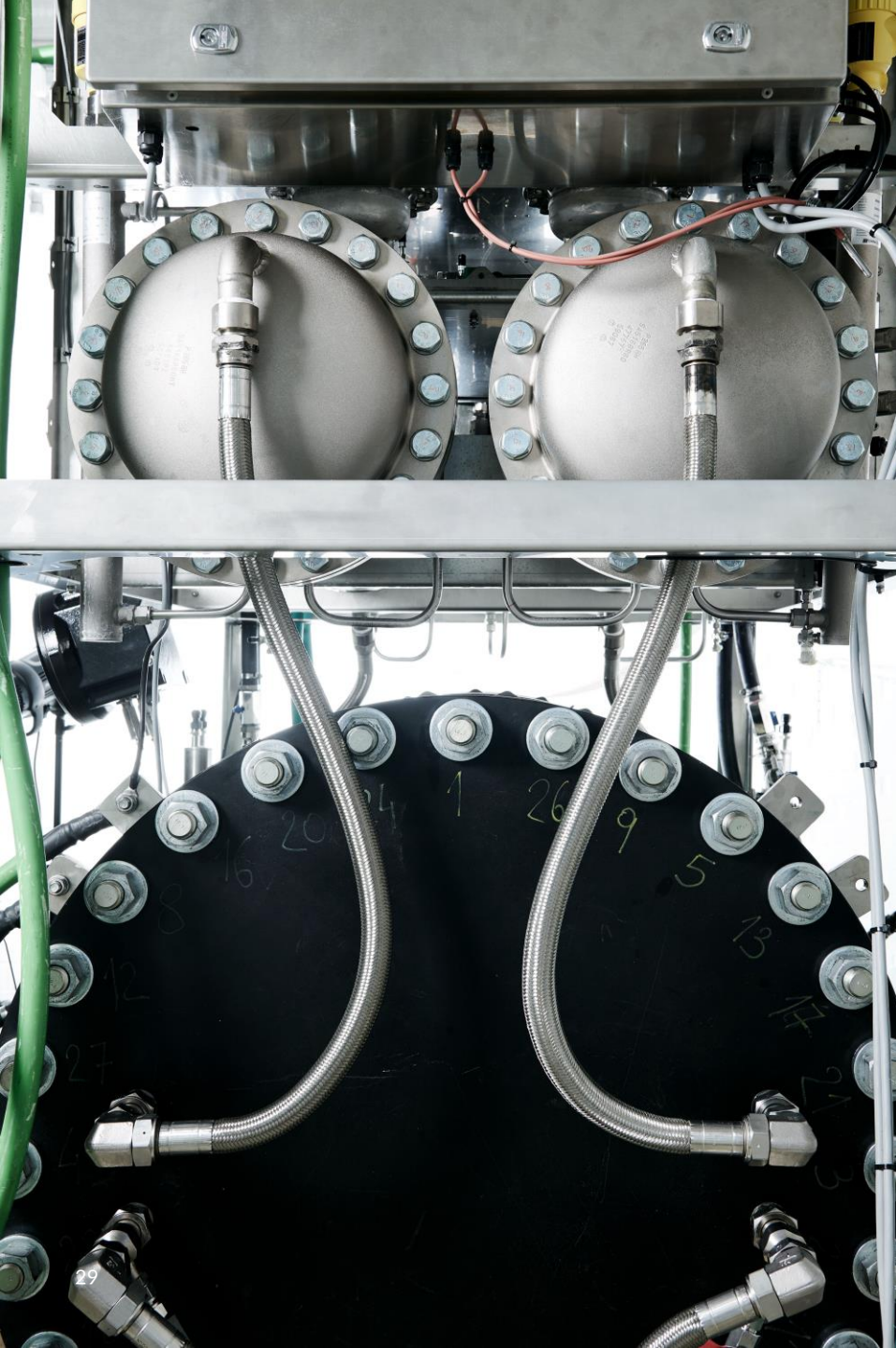
Well underway with capacity scale-up to meet surging demand

New capital and use of proceeds

Target: DKK ~1 billion in proceeds

Uses:

- Continuation of R&D efforts
- CAPEX investments to enable production scale up
- Expansion of sales and marketing efforts
- Organisational ramp-up and support initiatives
- Strengthening of balance sheet and general corporate purposes



Appendices

Green hydrogen electrolyser

Income statement – Full year

Income statement (FY2018 – FY2020)

DKKm	FY2018	FY2019	FY2020
Revenue from customer contracts	4.2	14.2	9.4
Other operating income	0.2	1.9	2.8
Total revenue	4.4	16.1	12.2
Changes in inventory	4.1	(2.0)	0.0
Raw materials & consumables used	(8.1)	(11.0)	(17.2)
Work performed and capitalised	3.2	1.3	10.5
Employee costs	(4.5)	(8.7)	(39.6)
Other operating expenses	(2.9)	(7.5)	(35.6)
EBITDA	(3.9)	(11.7)	(69.6)
Depreciation and amortisation	(0.3)	(0.3)	(3.1)
EBIT	(4.1)	(12.0)	(72.7)
Financial income	0.0	0.0	0.0
Financial expenses	(0.0)	(0.1)	(2.9)
EBT	(4.2)	(12.1)	(75.5)
Income tax	1.4	1.4	2.3
Profit (loss) for the period	(2.8)	(10.7)	(73.2)
KPIs			
Order intake (DKKm) ¹	14.3	4.3	41.8
Order intake (MW) ¹	0.6	0.5	4.6
Total R&D spend (DKKm) ²	4.6	5.6	20.4
Employees (end of period)	9	18	55

Commentary

Total revenue

- The MaHyTec (2018), Mariestad (2019), Aalborg (2019) and Siemens Gamesa (2020) projects generated revenue from customer contracts in the respective years. Revenue decrease from 2019 to 2020 was driven by orders expected in 2020 being postponed to 2021
- Other operating income comprises grants and subsidies for development projects, for example from the Danish Energy Agency and Innovation Fund Denmark
- Revenue from electrolyser sales and installation is recognised at site acceptance test (SAT). Revenue from service is recognised following SAT and is periodic, but exact timing varies from project to project

COGS

- Higher sales as well as inventory write-downs related to electrode production, sourced components and old technology have driven the increase in raw materials & consumables used
- Work performed and capitalised was driven by a higher R&D activity
- R&D costs are expensed and capitalised, respectively, based on IFRS recognition criteria for intangible assets

Employee costs and other operating expenses

- The increase in employee costs can be attributed to the organisational ramp-up as well as value adjustments to warrants in 2020
- Other operating expenses comprise costs related to facilities, sales & marketing, administration and other, where development from 2019 to 2020 was mainly driven by consulting fees

Depreciation and amortisation

- The increase in 2020 was primarily driven by initiated depreciation of development projects taken into use and depreciation of new right-of-use assets including leased buildings and cars

Balance sheet – Full year

Total assets (Dec-18 – Dec-20)

DKKm	Dec-18	Dec-19	Dec-20
Intangible assets	5.5	7.0	16.5
Property, plant and equipment	0.2	0.2	20.6
Right-of-use assets	-	0.4	14.5
Deposits	0.0	0.0	6.2
Non-current assets	5.7	7.6	57.8
Inventories	4.7	8.0	7.6
Trade receivables	1.2	12.6	4.1
Income tax receivables	1.4	1.4	2.5
Prepayments	0.1	0.2	0.2
Other receivables	0.8	1.7	4.7
Cash and cash equivalents	0.6	9.4	156.0
Current assets	8.8	33.3	175.1
Total assets	14.5	40.9	232.9

- Intangible assets was in 2020 driven by increase in development activities and technology
- PPE mainly comprises GHS-owned test facilities (DKK ~10m), test equipment (DKK ~7m) as well as production equipment for the new production facility (DKK ~2m)
- Right-of-use assets and deposits relate to leasing of the new HQ facility and cars, which is also reflected in higher lease liabilities in 2020
- Development in inventories and trade receivables reflect the change in project activity

Total liabilities (Dec-18 – Dec-20)

DKKm	Dec-18	Dec-19	Dec-20
Equity including reserves	12.9	45.3	88.3
Retained earnings	(12.8)	(24.8)	(92.4)
Total equity	0.1	20.5	(4.1)
Borrowings	2.9	3.3	170.3
Lease liabilities	-	0.1	12.3
Provisions	-	0.2	-
Other payables	-	0.3	1.4
Non-current liabilities	2.9	3.9	183.9
Borrowings	-	0.5	4.1
Trade payables	1.1	5.6	25.4
Lease liabilities	-	0.2	2.2
Contract liabilities	6.7	5.6	7.9
Deferred income	2.9	3.4	3.2
Provisions	0.2	0.4	1.0
Other payables	0.5	0.6	9.2
Current liabilities	11.4	16.4	53.0
Total liabilities	14.4	20.4	237.0
Total equity and liabilities	14.5	40.9	232.9

- Borrowings comprise loans from the Danish Green Investment Fund (DKK ~17m), APMH (DKK ~111m) and existing shareholders (DKK ~43m), which is also reflected in the higher cash & cash equivalents in 2020
- Increase in trade payables can be attributed to change in project activity and consulting fees
- Contract liabilities include prepayments from customers
- Other payables are higher as a result of increasing payroll liabilities (FTE ramp-up) and derivative elements in borrowings (DKK ~3m)

Cash flow statement – Full year

Cash flow statement (FY2018 – FY2020)

DKKm	FY2018	FY2019	FY2020
Profit (loss) for the period	(2.8)	(10.7)	(73.2)
Changes in net working capital	2.0	(11.4)	31.3
Adjustments	(0.9)	(0.4)	16.0
Interests received	0.0	0.0	0.0
Interests paid	(0.0)	(0.5)	(0.6)
Income taxes paid/received	0.4	1.4	1.4
CF from operating activities	(1.3)	(21.7)	(25.2)
Payment for PPE	(0.1)	(0.1)	(20.6)
Payment for development costs	(3.7)	(1.3)	(11.0)
CF from investing activities	(3.8)	(1.4)	(31.6)
Principal elements of lease payments	-	(0.0)	(1.0)
Proceeds from borrowings	2.9	5.4	203.0
Repayment of borrowings	-	(4.5)	(0.7)
Proceeds from share issues	1.9	31.0	3.1
Purchase of treasury shares	-	-	(1.1)
CF from financing activities	4.8	31.9	203.3
Net cash flow for the year	(0.3)	8.8	146.5

KPIs

Tangible CAPEX (DKKm)	(0.1)	(0.1)	(20.6)
Intangible CAPEX (DKKm)	(3.8)	(1.7)	(11.5)
Net working capital (DKKm)	(4.4)	7.0	(24.3)
Cash spend (DKKm)	(5.1)	(23.1)	(56.8)

Commentary

CF from operating activities

- Changes in net working capital can primarily be explained by higher trade receivables (DKK ~10m) from 2018 to 2019 and by higher trade payables (DKK ~20m) and other payables (DKK ~13m) from 2019 to 2020
- Adjustments primarily comprise warrants, D&A and value adjustment of derivative elements in borrowings

CF from investing activities

- Investing activities include payments related to GHS-owned test facilities, test equipment, production equipment for the new production facility as well as R&D costs for development activities

CF from financing activities

- Proceeds from borrowings in 2020 derive from APMH investing in GHS alongside existing shareholders Nordic Alpha Partners and Norlys
- Proceeds from share issues relate to two investment rounds in 2019 (entry by Nordic Alpha Partners) and 2020 (capital raise from existing shareholders)

KPIs

- Tangible CAPEX includes payments for PPE, reflecting investments in facilities and equipment for test and production
- Intangible CAPEX includes R&D costs for development activities
- Cash burn reflects cash flows from operating and investing activities
- Net working capital includes deposits, inventories, trade receivables and payables, prepayments, contract liabilities, deferred income and other receivables and payables

Income statement – Quarterly

Income statement

DKKm	Q1 2021	Q1 2020
Revenue from customer contracts	0.3	0.1
Other operating income	0.3	1.3
Total revenue	0.6	1.4
Changes in inventory	1.0	0.7
Raw materials & consumables used	(3.2)	(3.2)
Work performed and capitalised	6.6	1.2
Employee costs	(23.1)	(4.7)
Other operating expenses	(18.2)	(2.9)
EBITDA	(36.5)	(7.5)
Depreciation and amortisation	(1.7)	(0.6)
EBIT	(38.2)	(8.1)
Financial income	0.0	0.0
Financial expenses	(6.2)	(0.0)
EBT	(44.3)	(8.1)
Income tax	1.4	0.3
Profit (loss) for the period	(43.0)	(7.9)

Commentary

Total revenue

- Increase in revenue from customer contracts in Q1 2021 is mainly related to product revenue in GHS' industry segment coming from Europe
- A reduction in other operating revenue is related to reduced government grants

COGS

- Increase in total costs reflects the ramp-up of the company
- Work performed and capitalised was driven by a higher R&D activity
- R&D costs are expensed and capitalised, respectively, based on IFRS recognition criteria for intangible assets

Employee costs and other operating expenses

- The increase in employee costs are attributed to the organisational ramp-up as well as value adjustments to warrants
- Other operating expenses comprise costs related to facilities, sales & marketing, administration and other, where development from Q1 2020 to Q1 2021 was mainly driven by consulting fees

Depreciation and amortisation

- The increase in Q1 2021 was primarily driven by initiated depreciation of development projects taken into use and depreciation of new right-of-use assets including leased buildings and cars

Balance sheet – Quarterly

Total assets

DKKm	Mar-21	Dec-20	Mar-20
Intangible assets	23.0	16.5	7.8
Property, plant and equipment	25.5	20.6	0.2
Right-of-use assets	37.9	14.5	0.6
Income tax receivables	1.4	-	-
Deposits	7.2	6.2	3.2
Non-current assets	94.9	57.8	11.8
Inventories	16.7	7.6	10.2
Trade receivables	0.4	4.1	1.5
Income tax receivables	2.5	2.5	1.7
Prepayments	1.2	0.2	0.2
Other receivables	8.2	4.7	3.2
Cash and cash equivalents	102.6	156.0	1.2
Current assets	131.7	175.1	18.0
Total assets	226.6	232.9	29.8

- Intangible assets increased in Q1 2021 primarily as a result of increase in development projects and acquisition of new software licenses
- PP&E mainly comprises GHS-owned test facilities, test equipment as well as production equipment for the new production facility
- Right-of-use assets and deposits relate to leasing of the new HQ facility and cars
- Development in inventories and trade receivables reflect the change in project activity

Total liabilities

DKKm	Mar-21	Dec-20	Mar-20
Equity including reserves	93.8	88.3	44.9
Retained earnings	(135.5)	(92.4)	(33.3)
Total equity	(41.6)	(4.1)	11.6
Borrowings	175.9	170.3	3.3
Lease liabilities	33.2	12.3	-
Other payables	1.4	1.4	0.3
Non-current liabilities	210.4	183.9	3.6
Borrowings	4.4	4.1	0.5
Trade payables	26.5	25.4	2.6
Lease liabilities	4.9	2.2	0.6
Contract liabilities	12.4	7.9	5.6
Deferred income	2.2	3.2	3.5
Provisions	1.6	1.0	0.6
Other payables	5.8	9.2	1.2
Current liabilities	57.8	53.0	14.6
Total liabilities	268.2	237.0	18.2
Total equity and liabilities	226.6	232.9	29.8

- Increase in trade payables since Q1 2020 can be attributed to change in project activity and consulting fees
- Contract liabilities include prepayments from customers
- Other payables are higher as a result of increasing payroll liabilities (FTE ramp-up) and derivative elements in borrowings

Cash flow statement – Quarterly

Cash flow statement

DKKm	Q1 2021	Q1 2020
Profit (loss) for the period	(43.0)	(7.9)
Changes in net working capital	(10.7)	1.8
Adjustments	11.9	0.3
Interests received	-	-
Interests paid	(0.8)	(0.1)
Income taxes paid/received	-	(0.0)
CF from operating activities	(42.6)	(5.8)
Payment for PPE	(4.4)	(0.0)
Payment for development costs	(6.5)	(1.2)
CF from investing activities	(10.9)	(1.2)
Principal elements of lease payments	(0.6)	(0.1)
Proceeds from share issues	0.7	-
Purchase of treasury shares	-	(1.1)
CF from financing activities	0.2	(1.1)
Net cash flow for the period	(53.3)	(8.2)

Commentary

CF from operating activities

- Changes in net working capital can primarily be explained by increase in inventories
- Adjustments primarily comprise warrants, D&A and value adjustment of derivative elements in borrowings

CF from investing activities

- Investing activities include payments related to GHS-owned test facilities, test equipment, production equipment for the new production facility as well as R&D costs for development activities

CF from financing activities

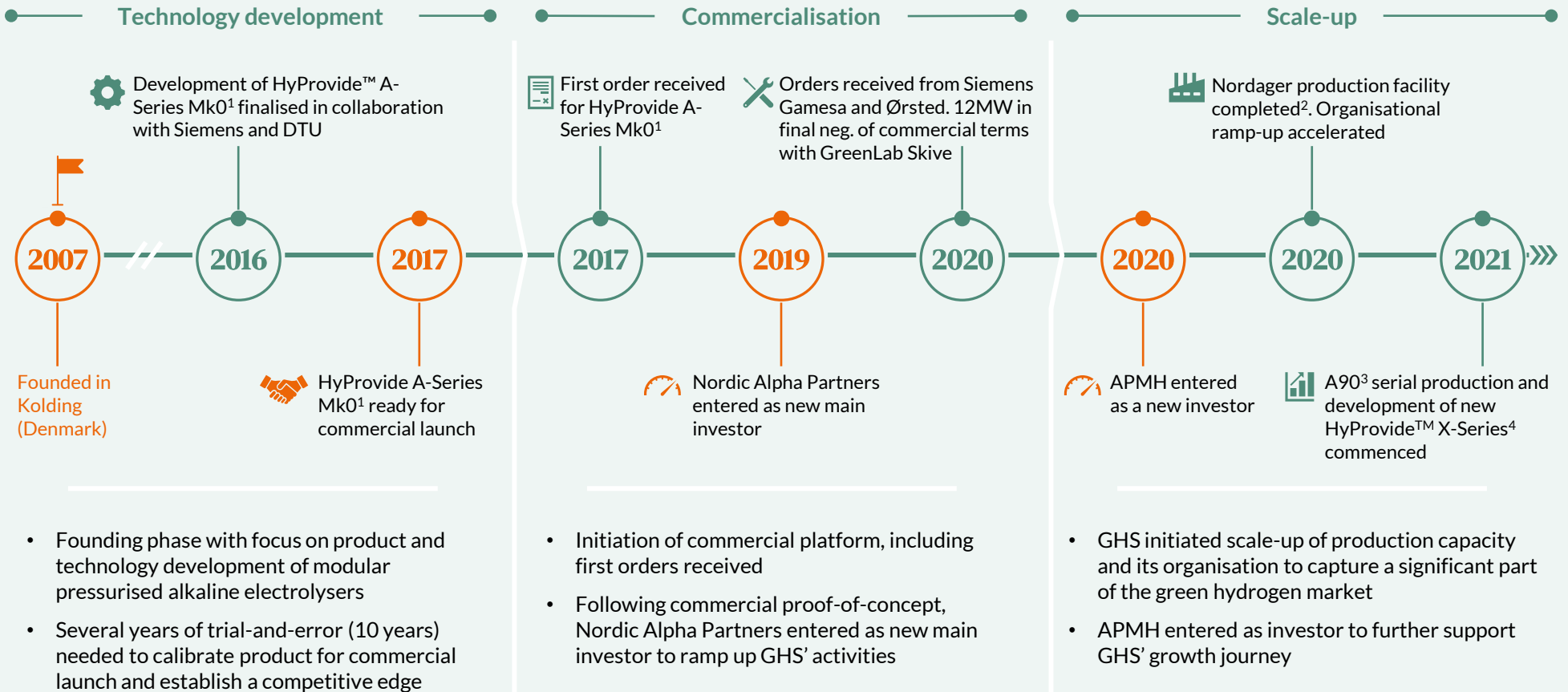
- Proceeds from share issues relate to proceeds from share issues

KPIs

- Tangible CAPEX includes payments for PPE, reflecting investments in facilities and equipment for test and production
- Intangible CAPEX includes R&D costs for development activities
- Cash burn reflects cash flows from operating and investing activities
- Net working capital includes deposits, inventories, trade receivables and payables, prepayments, contract liabilities, deferred income and other receivables and payables

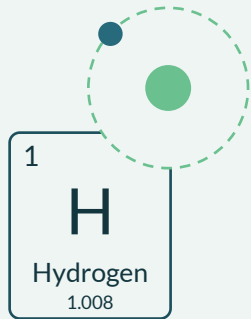
Building on 13+ years R&D of modular pressurised alkaline electrolysers, GHS is now ready for significant scale-up

Company history



Hydrogen is a clean, efficient and versatile energy carrier

Introduction to hydrogen and key advantages



The first element in the periodic table and the smallest and lightest atom

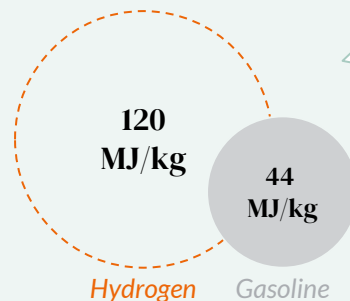
Hydrogen is the most abundant substance in the universe

1 Hydrogen releases no GHG when burned and can be produced with **zero carbon footprint** if made via electrolysis (splitting hydrogen from water) with renewable energy ("green hydrogen")

2 **Highly versatile** with multiple direct applications in transportation and industry, indirect applications in Power-to-X as a basis for production of ammonia and e-fuels and in grid stabilisation

3 **High gravimetric energy density**, implying that hydrogen can efficiently store energy with minimal energy loss, both over time and across distances

Energy density on a mass basis



Energy density of hydrogen in practical use depends on storage methods, which are continuously being optimised

Production methods

GHG emissions at production²



Green hydrogen

Made through electrolysis using 100% renewable energy – expected to account for the lion's share of future hydrogen production³



Grey hydrogen

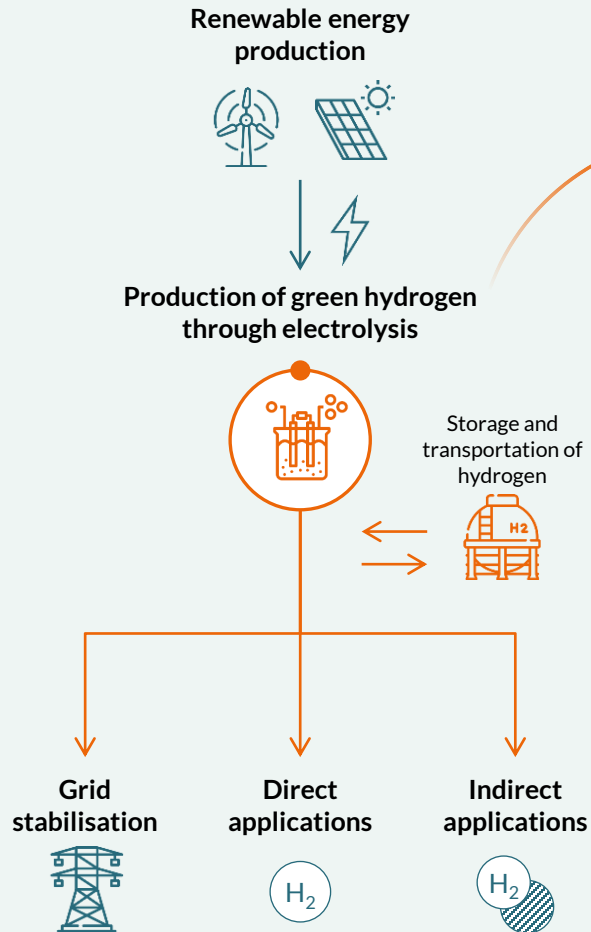
Made using fossil fuels such as natural gas, oil and coal – accounts for the majority of current hydrogen production; however, expected to decrease significantly³



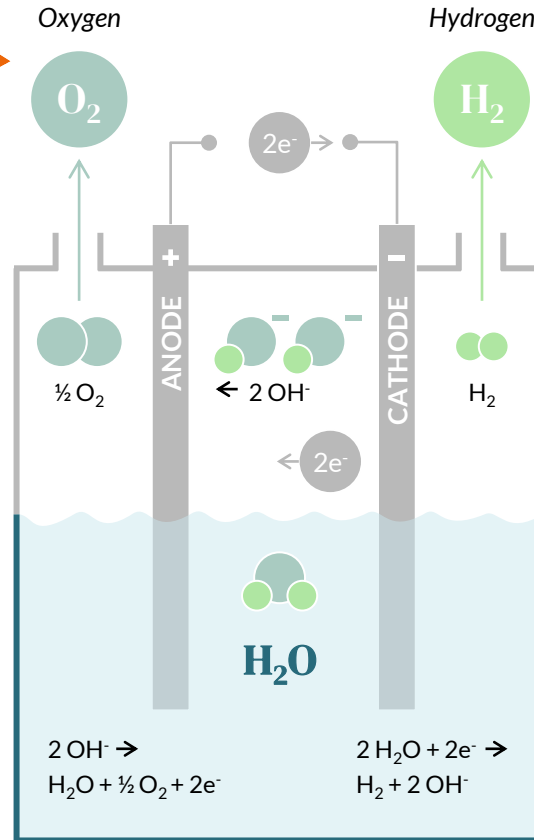
Blue hydrogen

Hydrogen production, which is decarbonised through carbon capture – in a European context, blue hydrogen is estimated to fulfil a more transitional role towards green hydrogen³

Hydrogen electrolysis splits water into hydrogen and oxygen



Hydrogen electrolysis process



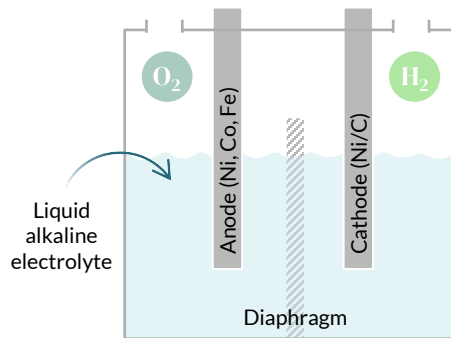
Hydrogen electrolysis is a process that splits water into hydrogen and oxygen using electricity

If the electricity is derived from renewable energy sources, the produced hydrogen is considered green

The process of green hydrogen electrolysis is completely fossil-free, as the only by-product is oxygen and the power used in electrolysis is generated from renewable sources

Currently offered technologies on the electrolyser market primarily consist of atmospheric and pressurised alkaline and PEM

Atmospheric alkaline

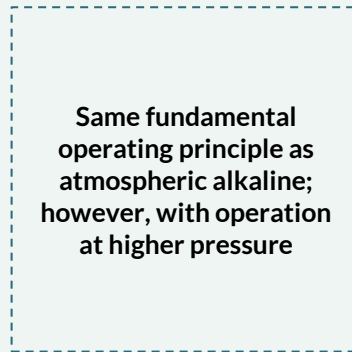


Relatively mature technology with long commercial history

Long history in the chemicals industry

Has been through continuous development since the late 1800s to early 1900s

Pressurised alkaline



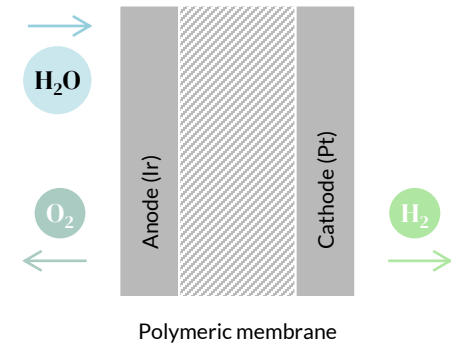
Development on the mature atmospheric alkaline mature technology

First pressurised system was developed in the late 1940s

GHS represents the 4th generation of pressurised electrolysers

PEM

(Polymer electrolyte membrane)



Relatively newer technology with short commercial history

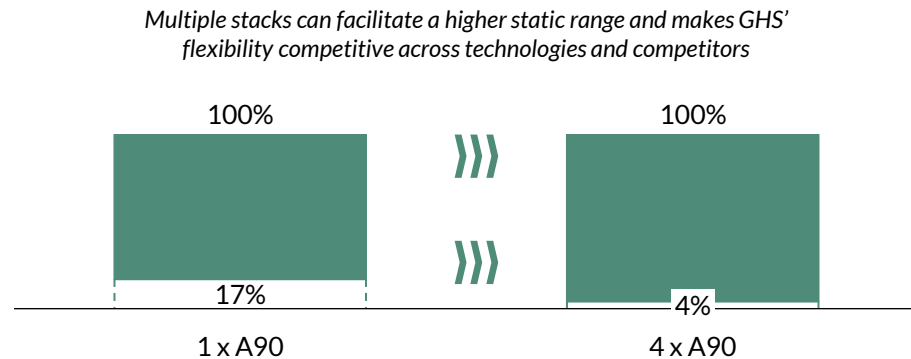
First developed for small commercial applications in the 00s, based on development over the previous 20-30 years



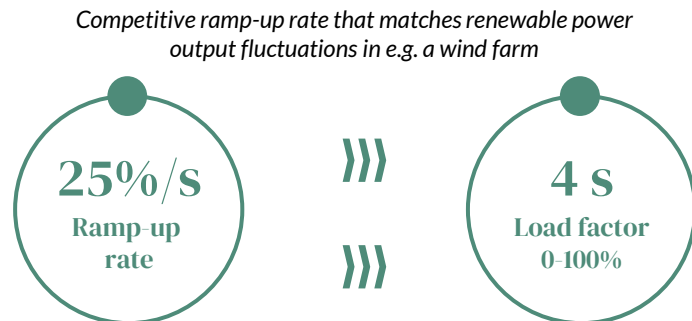
GHS' technology is suited for renewable energy sources due to its operating flexibility while being independent of scarce resources

Operating flexibility

GHS' static flexibility measured by the static range¹

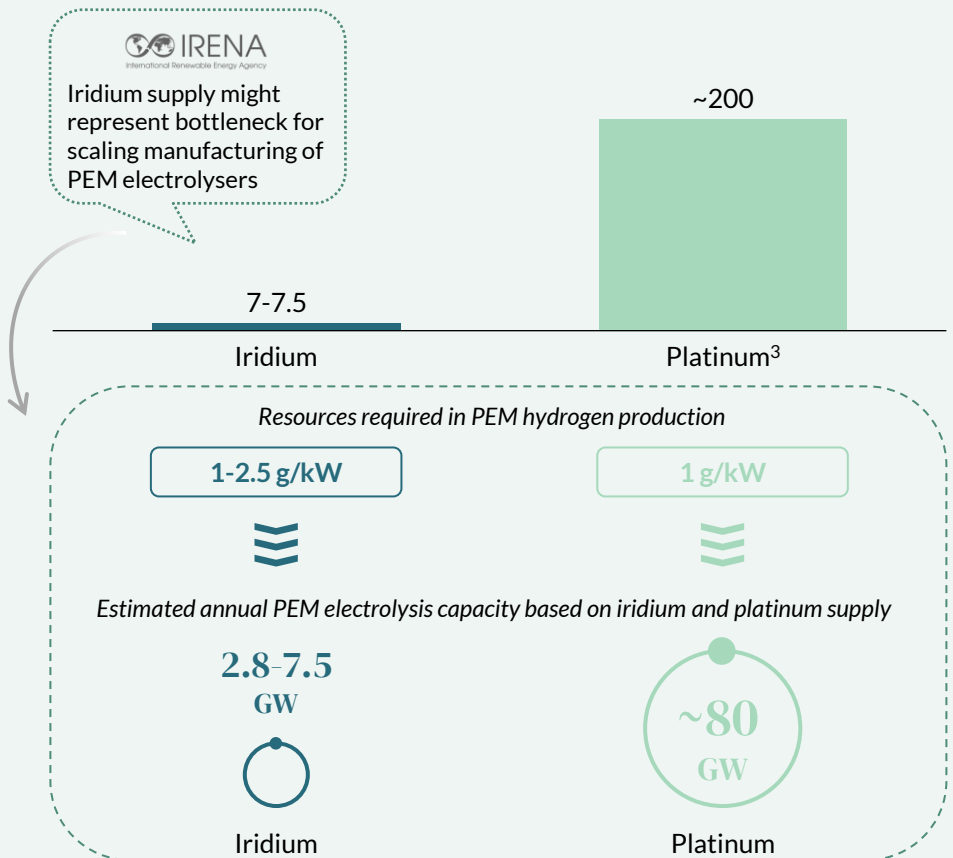


GHS' dynamic flexibility measured by ramp-up/ramp-down rates²



Scarce resources used in PEM

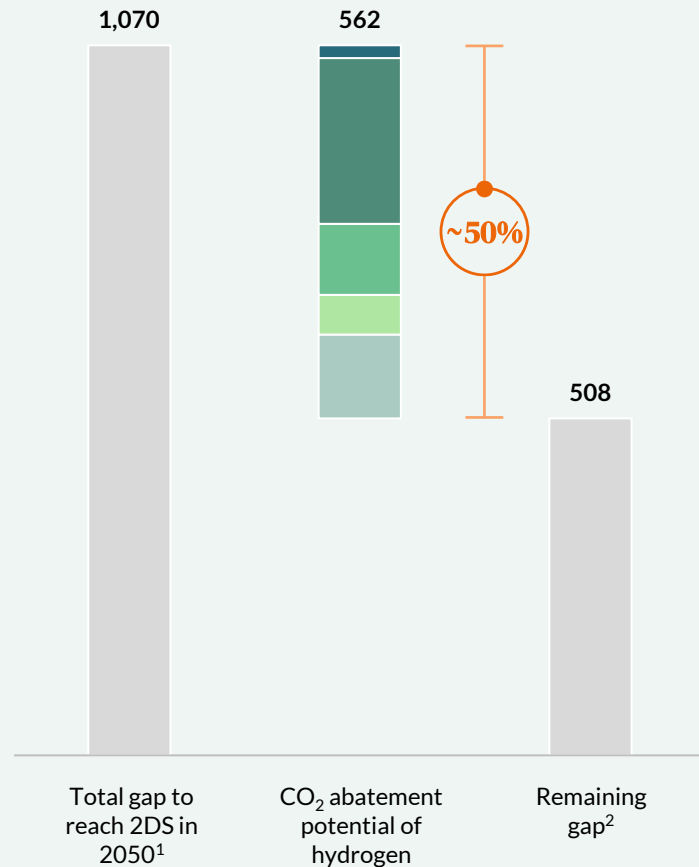
Global production of scarce resources that PEM depends on (t/year)



Green hydrogen to play a key role in decarbonising energy systems

Green hydrogen is estimated to be able to contribute 50% of the necessary European CO₂ reduction¹

From EU FCH. CO₂ avoidance potential by segment, 2050, Mt



Enable the renewable energy system



19mt

Renewables integration and power generation

Enable sector coupling, connecting renewable energy to e.g. transportation and enable transportation of renewable energy across distances

Viable option for storage of (surplus) renewable energy as batteries are not suitable for storing large amounts of energy



250mt

Transportation

Replacement of combustion engines in cars, trains and ships with hydrogen powered units, along with decarbonisation of fuels through hydrogen-based synthetic fuels



107mt

Building heating & power

Decarbonisation of natural gas heating for aging building stock through blending with existing grid – or complete conversion to synthetic natural gas



60mt

Industry heat

Replacement of natural gas for high grade heat processes, where electrification becomes less efficient (relative to low- and medium grade heat)



126mt

Industry feedstock

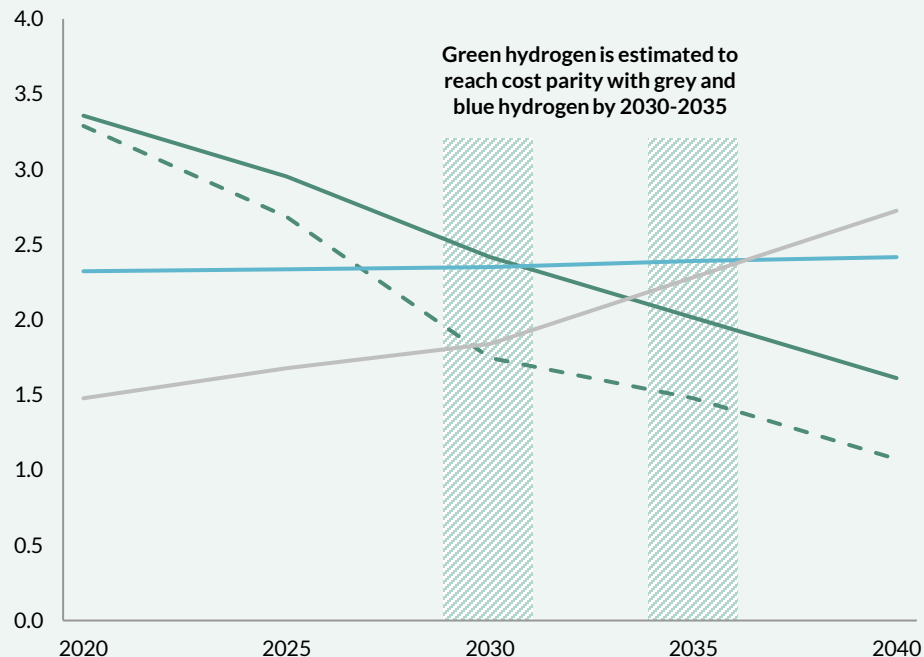
Switch from grey hydrogen production to green for current usages as industry feedstock, and develop new feedstock uses, e.g. in steel production to switch away from blast furnaces

Decarbonise end uses

Green hydrogen is expected to be a competitive zero-carbon option across several applications by 2030

Est. development in production cost of hydrogen¹

From Dansk Energi. Price development for hydrogen produced in Denmark, EUR/kg. H₂



Central estimate

Low estimate

Green hydrogen

Decreasing cost driven by falling prices on renewable energy and gradual maturity of electrolysis technology and manufacturing

Blue hydrogen

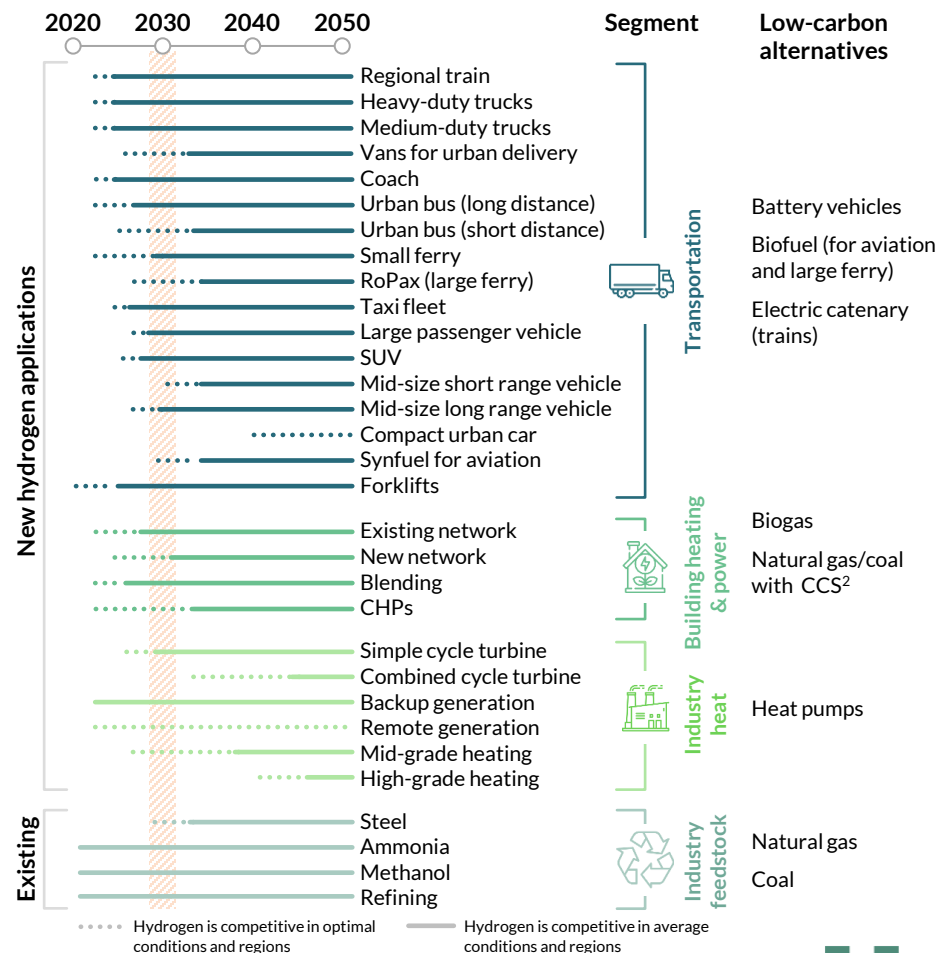
Relatively flat cost per kg with slight increase from increasing CO₂ quota on the ~10% CO₂ which cannot be carbon captured

Grey hydrogen

Currently, grey hydrogen receives free CO₂ quotas from the EU - this is expected to be removed, resulting in a significant price increase

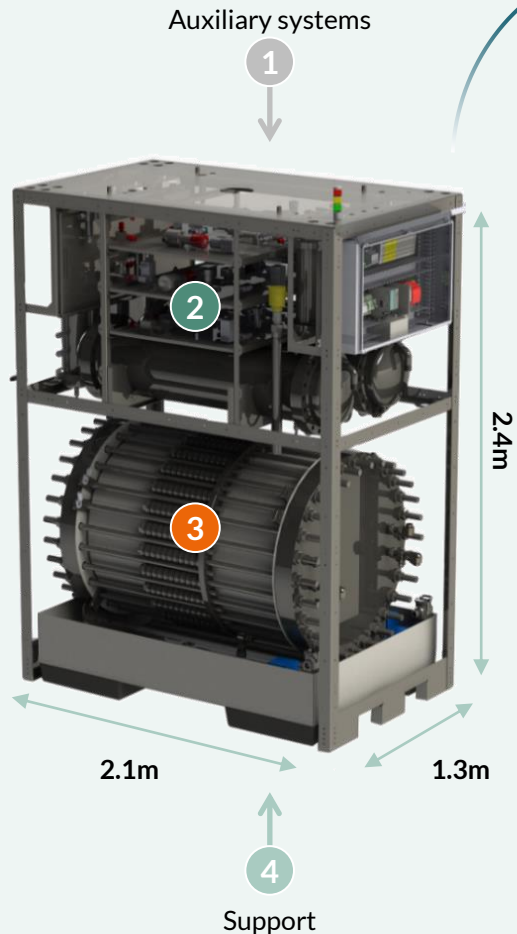
Hydrogen path to cost-parity with low-carbon options²

From Hydrogen Council. Measures hydrogen competitiveness vs best low-carbon alternative

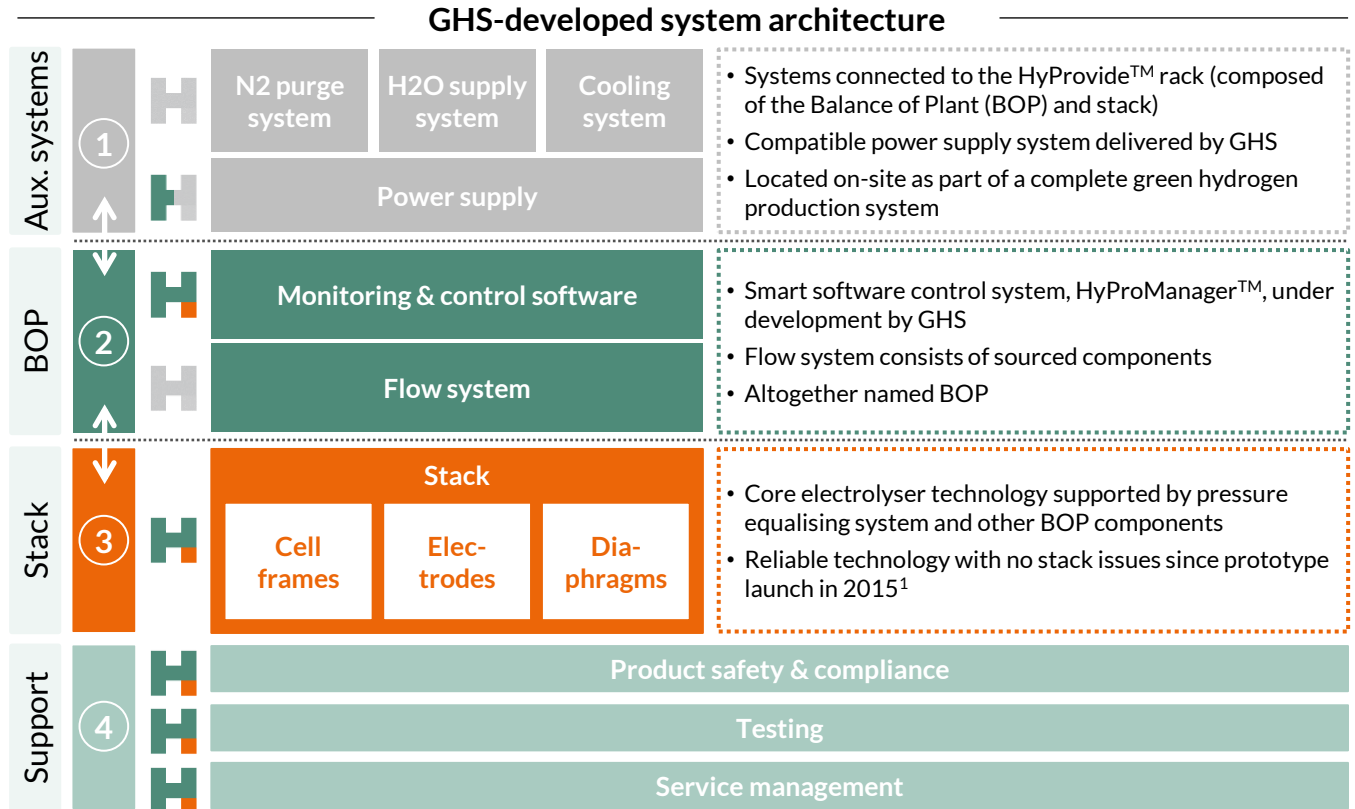


The A-Series platform is built on a GHS-developed system architecture with mature subsystems

The HyProvide™ A-Series



Platform system architecture and subsystems



System architecture and mature subsystems working in unison enable a robust electrolyser platform






GHS core technology & processes

GHS peripheral technology



Modular system design enables targeting of increasingly large projects

Modular system design

-  Standardised and pre-tested “plug-and-play” electrolyser modules
-  Quick and easy addition/ installation of new modules on-site like building blocks
-  Fully automated operation with minimal manpower requirements¹
-  Modular in-a-box design allowing for clustered solutions and incremental project build-out
-  Small footprint/MW consumption increasing number of applications

Scalable and footprint efficient offering

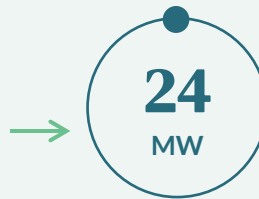
Multi-MW projects

GreenLab
skive

~45 x A90



GHS electrolyzers

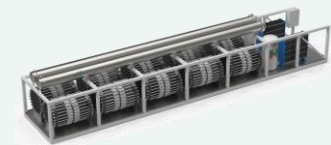


Electrolysis capacity²

6 sqm./MW³
Factory floor
system footprint

33 sqm./MW⁴
Containerised
system footprint

Future GW-scale projects



X-Series ready for commercialisation in 2023

Beyond 2025

~133 x 7.5MW⁵



GHS electrolyzers

GW scale

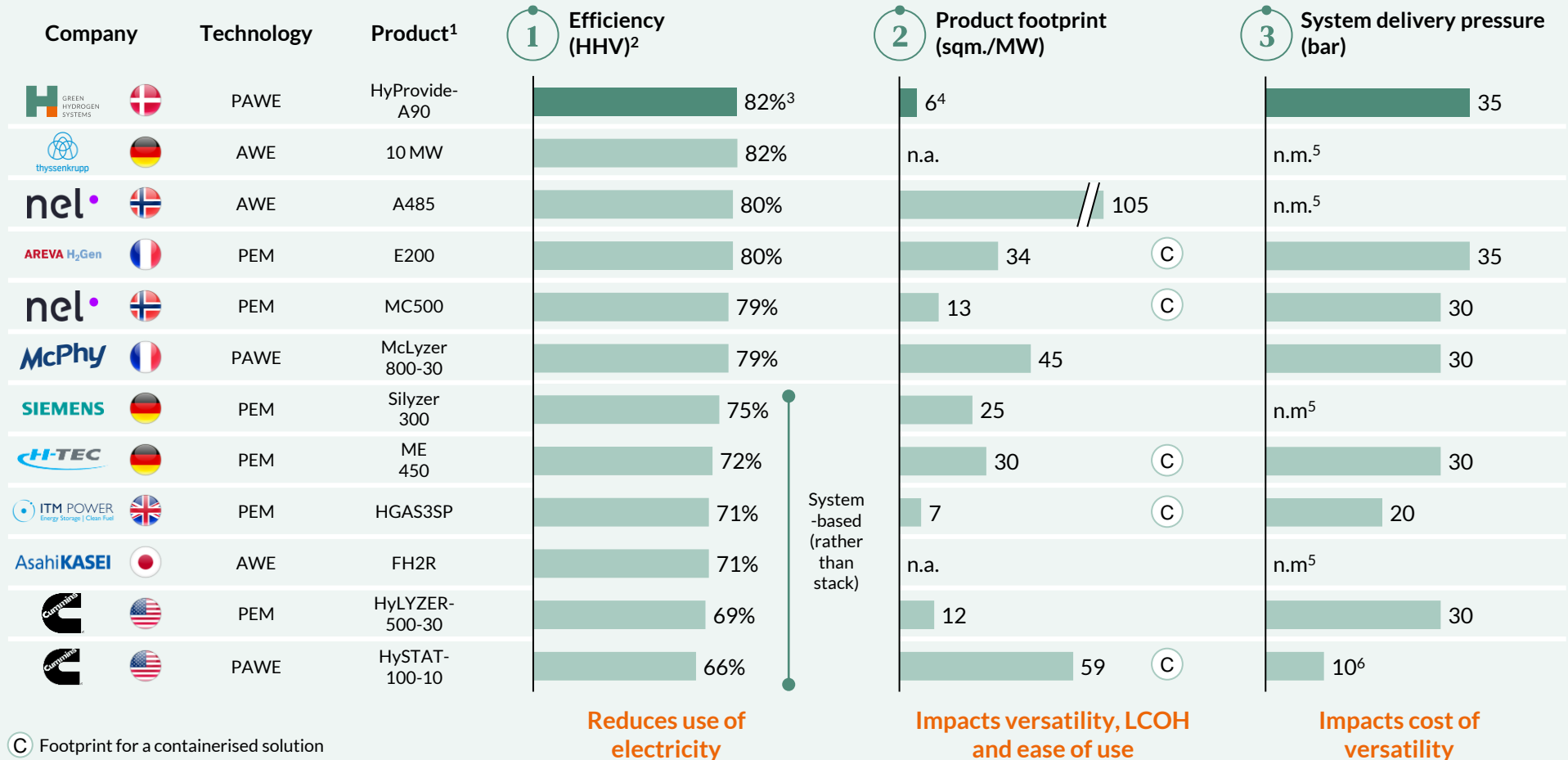
Electrolysis capacity⁶

~8-12 sqm./MW⁷
Indicative containerised
system footprint

Increasingly large projects over time, delivering solutions with high efficiency per sqm.

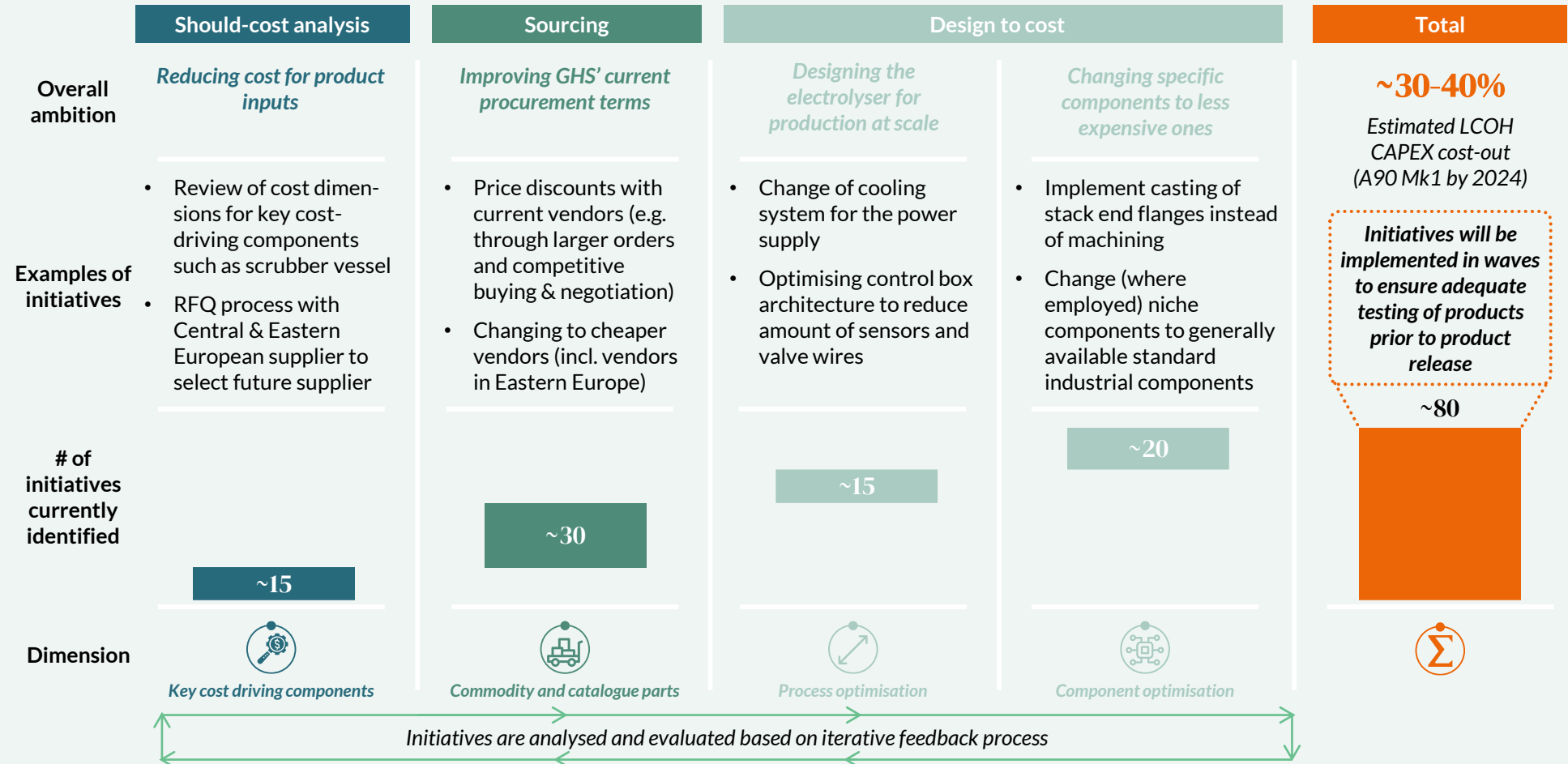
GHS' HyProvide-A90 is well-positioned on efficiency, product footprint and system delivery pressure

Different electrolyzers on selected parameters



Cost-out programme in place to realise LCOH CAPEX reduction of estimated ~30-40% by 2024 on the A90 Mk1

~80 cost-out initiatives with bill-of-material impact currently identified



Thank you!

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