AEMOOVEREC

Smart. Simple. Scalable.



Investor Presentation, January 2025

Enapter

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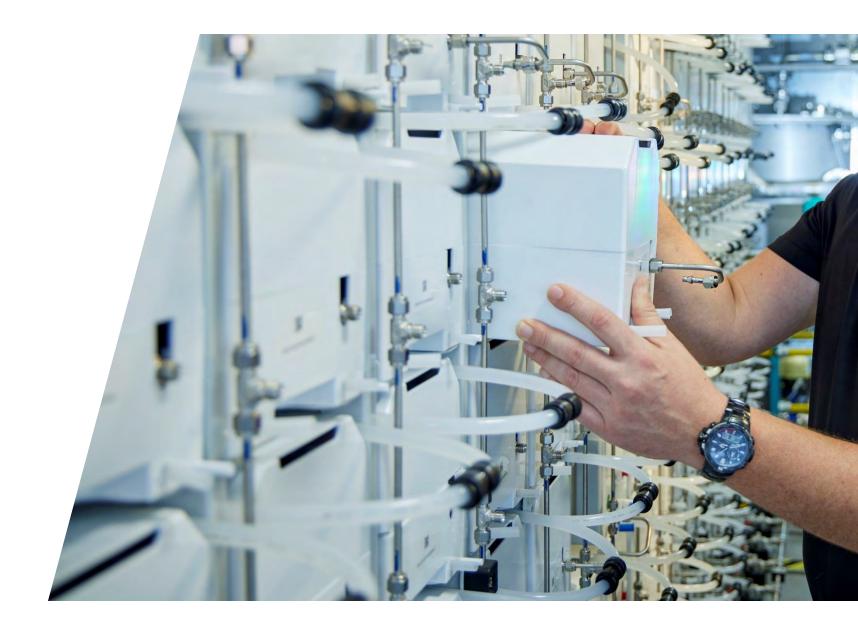
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Content

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- 2. AEM Technology
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Enapter at a glance



Started in Nov 2017



Pioneer and commercial leader in patented AEM electrolysis and advanced energy management software



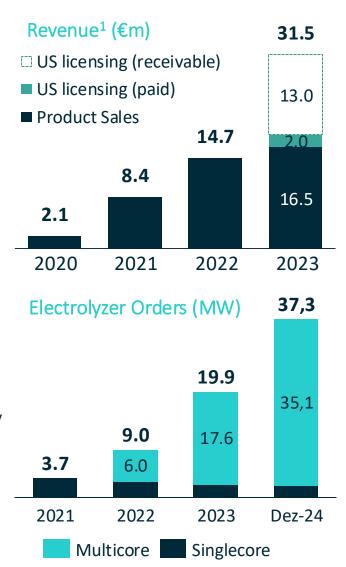
More than **15,000 electrolyzer cores** ordered by >**375 customers** across >**50** countries



Attracting world-class partners: Partnership and €20m equity investment by Johnson Matthey (market Cap: €3.2bn) in 2022 and JV with Wolong (market Cap: €2.7bn) in 2024



Rapidly shifting to MW Systems. >95% of enquiries are for Megawatt systems.





Registered office: Düsseldorf

Stock exchange: Frankfurt /

Hamburg Regulated Market

Bloomberg ticker: H2O GR

Shares outstanding²: 29.1m

Market cap²: €112m

Current FTE²: >200

Major Shareholders:

Blugreen

Company Ltd.³ 47.60%

Svelland Global Trading Fund

15,27%

4,54%

CVI Investments

Morgan Stanley 5.04%

Sergei Storozhenko 4.41%

Johnson Matthey 3.62%

Other shareholders 26.33%







To live in a world where fossil fuels are no longer used and **green hydrogen** fuels power the world via renewable energy sources.





To make green hydrogen affordable and accessible to all, using **AEM electrolyzer**.

Values

Customer – Quality – Passion.

Enapter

Experienced executive team



Dr. Jürgen Laakmann CEO (Chairman of the board)

- 20+ years of management experience in strategy consulting, automotive and tech
- Extensive experience in Private Equity and M&A
- Previously CEO at Formel D Gruppe where he was responsible for opening 20+ international offices and daughter companies



Gerrit Kaufhold CFO (Board member)

- Part of Enapter's growth since the reverse-merger in 2020
- Previously tax advisor and auditor for a Big-Four accounting company and managing partner of an auditing company for many years



Ivan Gruber CTO (Board member)

- Responsible for Operations, Engineering and R&D
- 15+ years of management experience in hydrogen, automotive, tech and strategy consulting
- Extensive experience in managing multi-site engineering teams & operations
- Previously Vice President Advanced Engineering for a Hydrogen System integrator and Electrolyzer component manufacturer



Michael Söhner MD Operations

- Responsible for Operations and Quality
- Over 25 years of experience in implementing and optimizing business processes and digitalization
- Extensive experience in leading strategic projects in various business areas of the manufacturing industry and in the implementation of technology transfer projects
- Former Head of Digital Channel Management at a top-tier wireless communication company in Munich (Germany)

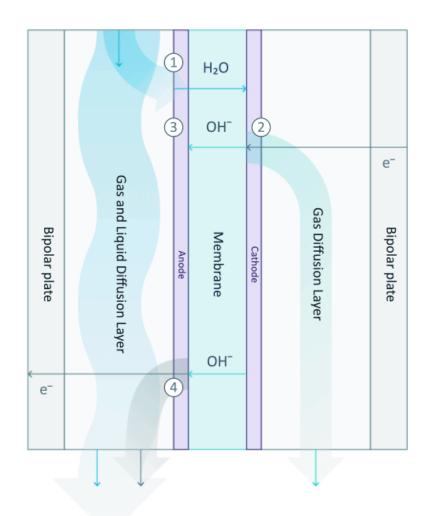


AEM's competitive advantage

Patented AEM technology



- Combining the best of Alkaline and PEM technology
- Iridium and titanium free
- Simple and scalable Balance of Plant
- Top efficiency
- Leading H2 pressure and purity
- Strong patents granted



Our secret sauce

AEM is the future

	PEM	Alkaline	€ AEM
Supports intermittent renewables	~	×	~
Iridium free	×	~	~
Titanium free	×	~	~
PFAS regulation ready	×	×	~
Compact design	~	×	~
High current density	~	×	~
Electrochemical compression	~	×	~
Safe-to-handle electrolyte	~	X	~

Technology review

AEM's competitive advantage

Modular systems scale faster



Computing in the past







Multi-core solution today



Electrolyzer in the past



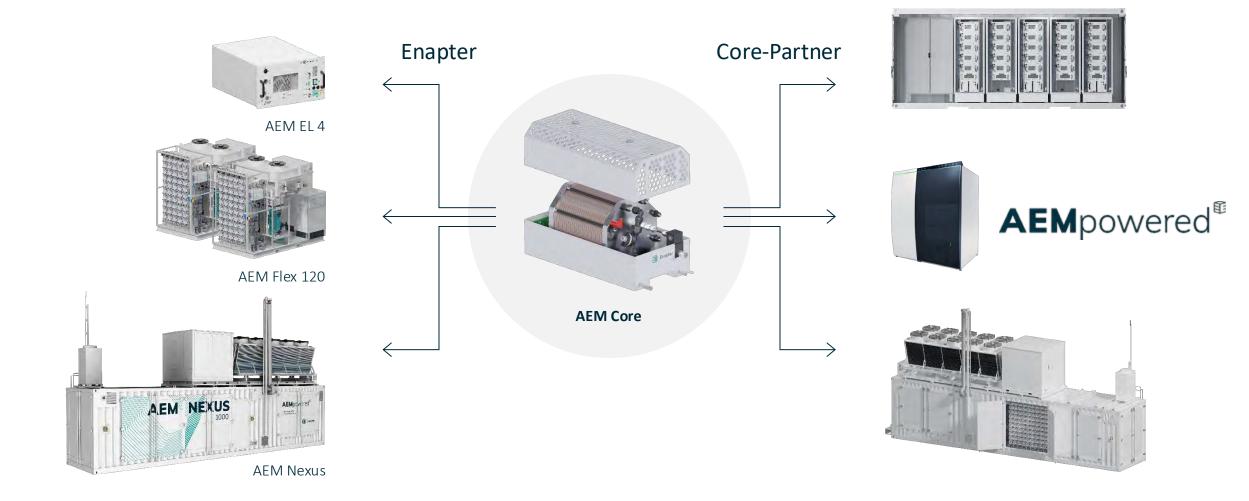




Multi-core solution today



Modular system as the basis for all product classes



Business Model: Core Partner

Building on Enapter's blueprints and developing custom solutions with AEM Core's modularity



Enapter

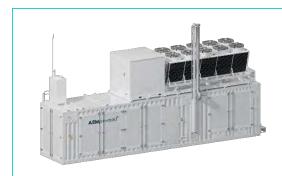
AEM Core

Manufactured by Enapter

Enapter Blueprints

Enapter provides Blueprint of its products. Cores are distributed by Enapter to Core Partner. Enapter also offers engineering services.





- Operating manual
- Technical specifications
- Product drawings
- Certification requirements
- Safety documents
- Etc.

Core Partner

AEM powered electrolyzer

International network of Core Partners produce and sell products under their own label with "AEMpowered"



Core Partner

Advantages for Core Partner

- Fast and CAPEX friendly entry into the AEM electrolyzer market, one of the industry's fastest growing segments
- Becoming a supplier of electrolyzer with the most sustainable technology currently available
- Draw internal synergies from existing engineering expertise and product areas
- Ongoing support from Enapter in the realization of blueprints or the development of own electrolyzer products

First Core Partner



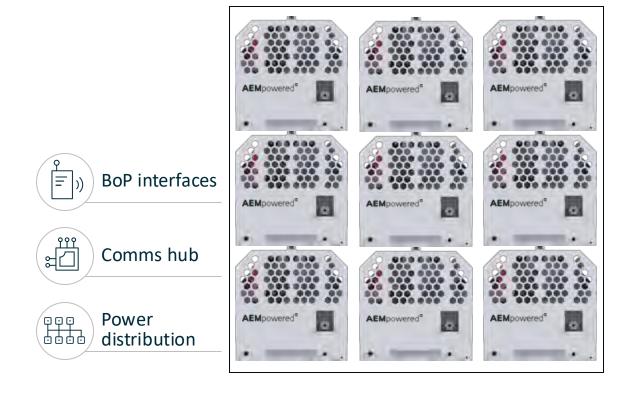
- Adsensys becomes first Core Partner in Oct 2024
- Adsensys receives Cores from Enapter and builds own electrolyzer
- Electrolyzer sold under Adsensys brand with the addition "AEMpowered" brand of Enapter
- Enapter licenses its EMS Software to Adsensys to manage electrolyzers

A combination of excellence

Core Partnership

Empowering Core Partners

- One-stop solution
- Ease of integration
- Scalable, ability to add more blocks
- Fast deployment and commissioning
- No major iterations of the design required



AEM Building Blocks

The ease of modularity



That's why Enapter's AEM is the ideal fit



Iridium-free: This means we can guarantee stability of prices and supply and lower supply chain risk.



Dynamic response: AEM provides a rapid start capability responsive to intermittent renewables.



Efficient and cost effective: AEM is the most cost-effective technology for H₂ production. Enapter's system efficiency is higher than that of competitors.



Flexible output range: Our inherent modularity provides a wide H₂ output range (3-100%).

Our strengths

PEM's competitive handicap



Iridium Indium Indiu

- On our planet **Iridium** only makes up ~0.001 parts per million. It's actually about 40x rarer than gold.
- It's one of the **most expensive metals** with the current price of ~5,000 USD per ounce (146,326 € per kg).
- It's produced commercially along with the other noble metals as a **by-product** of nickel or copper production. Currently, the total yearly production is only 8-9 tons.
- It's an important component in the anode catalysts of **PEM electrolysers**. Experts estimate that the demand for iridium by the PEM industry will exceed global supply many times over.

AEM's competitive advantage



Enapter's AEM technology avoids the use of Iridium-based catalysts. This enables Enapter to achieve

- greater price stability
- lower supply chain vulnerability,
- without **performance** restrictions.

Enapter avoids the use of any PFAs and titanium-based plates and porous transport layers. This leads to

- cost reduction compared to PEM-based stacks,
- a lower carbon footprint and enhanced sustainability.

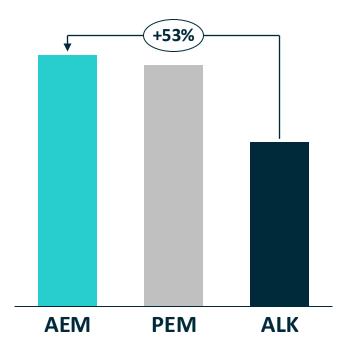
Iridium-free

Our unique selling proposition.

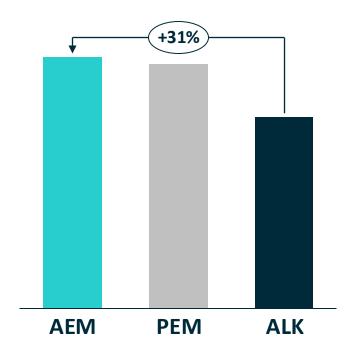
Flexibility

The most flexible MW systems in the market

- Operational flexibility of 3-100% due to modularity of our multicore electrolysers
- ✓ Up to 53% increase¹ in annual hydrogen production for 1 MW system compared to competitors







PV asset 2x bigger than EL

¹ Calculations based on a 1 MW electrolyser (for Enapter: AEM Nexus 1000) coupled with a 1,5 MW & 2 MW solar PV asset in Dusseldorf. Irradiation data from National Renewable Energy Lab (NREL). Operational flexibility of average PEM competitors assumed to be 10-100% and of average ALK competitors assumed to be 40-100%.

Software

Energy Monitoring and Management

- ✓ Real Time Monitoring and Control
- Predictive Maintenance
- Integration with third party systems
- ✓ Integrated AI for optimal efficiency
- ✓ Access via App (Android and iOS) and Browser





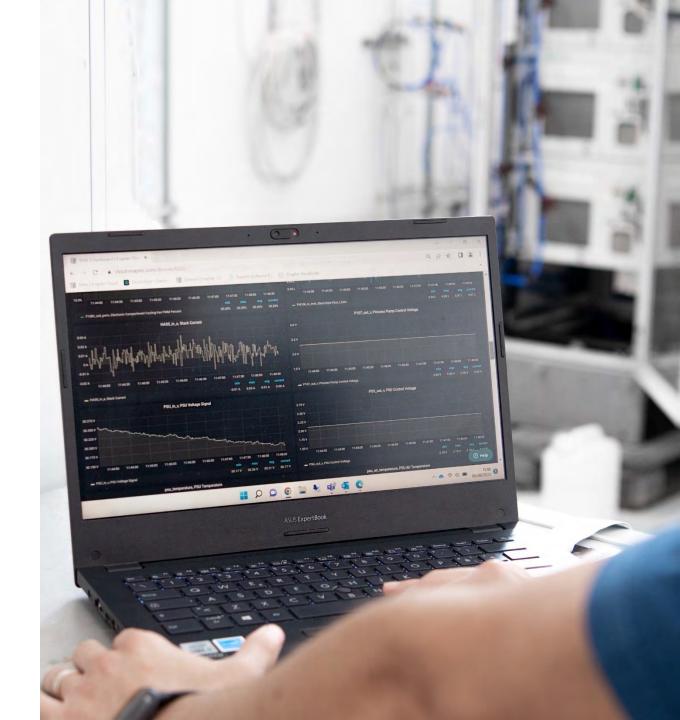












Our customers can monitor and control their entire energy system with our software

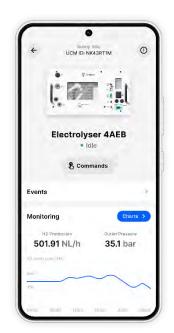
Integrate any energy device



Oversee key metrics



Control devices remotely



In-App Maintenance Instructions

















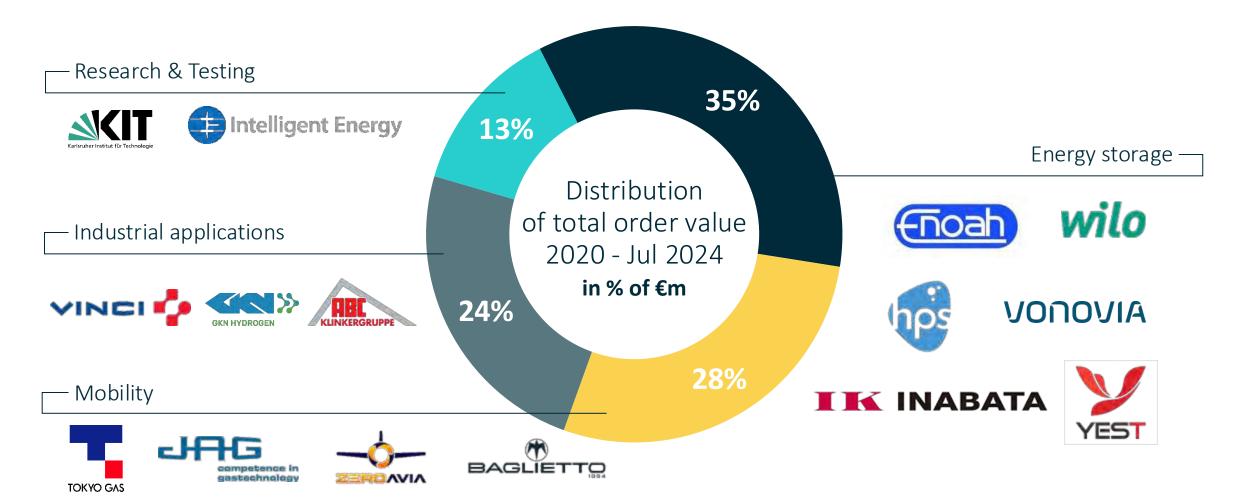


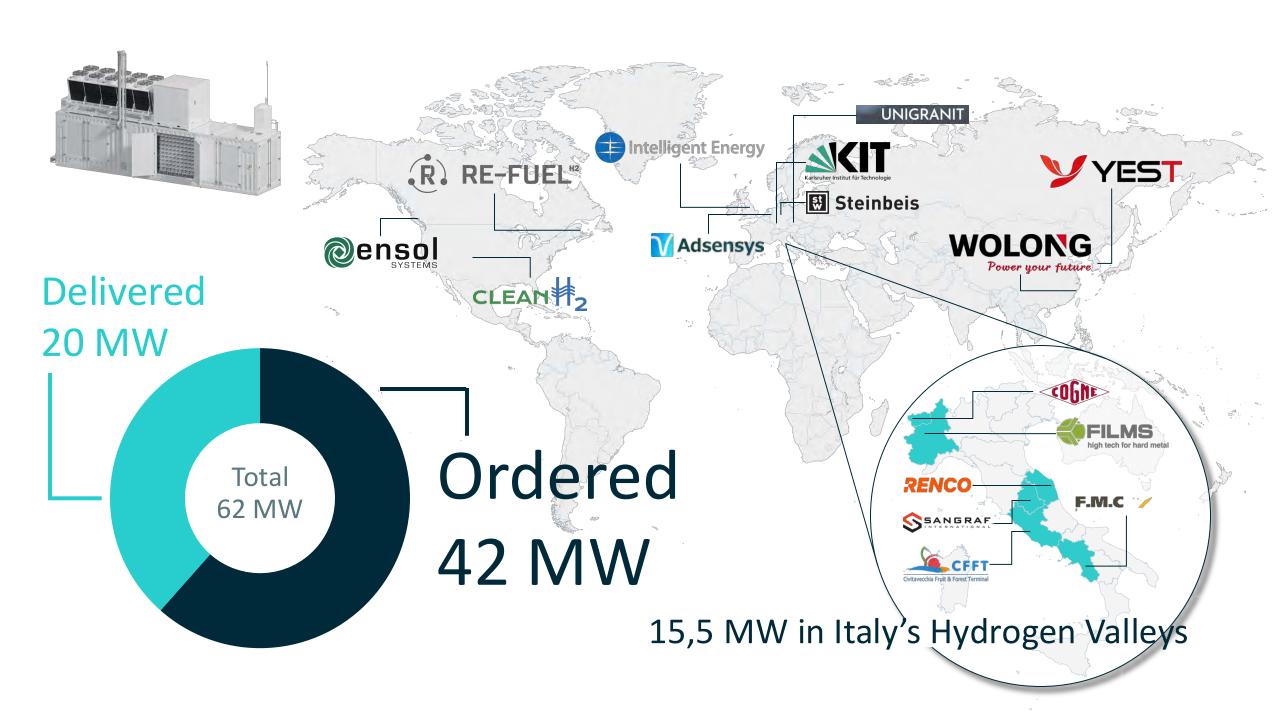






Selected customers







Order intake and backlog

Order intake doubled

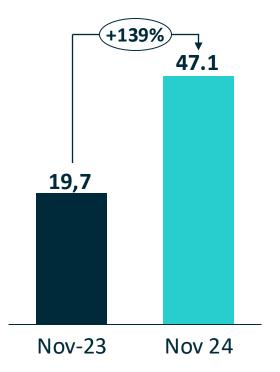


Order intake has more than doubled compared to the previous year and reached EUR 47.1 M at the end of November 2024

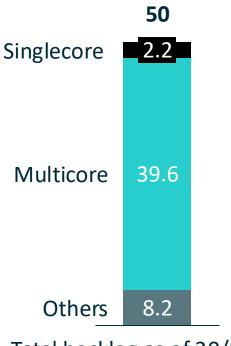


Order backlog (as of end November 2024) stands at EUR 50 M. 94% of product backlog are multicore electrolyzer

Order intake (MEUR)



Order backlog (MEUR)



Total backlog as of 20/11/24

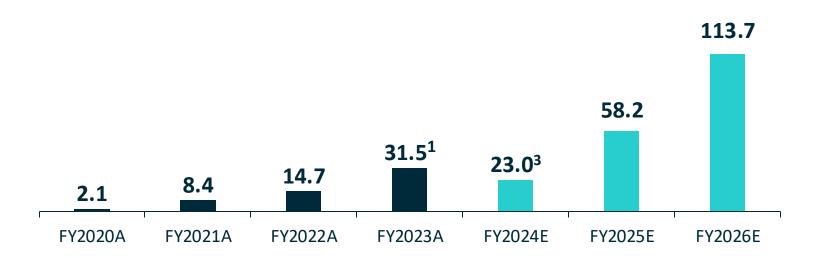
Note: Multicore electrolyzer are defined as electrolyzer products containing more than one Core (Stack).

Historical & projected revenue development

Broker research estimates²

Revenue per FY (€m)	
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	2020	2021	2022	2023	FY2024E	FY2025E	FY2026E
Enapter	2.1	8.4	14.7	31.6 ¹	22-24 ³		
mwb Research						67.8	143.1
Bryan, Garnier & Co						48.6	n/a
Pareto Securities						64.0	119.0
First Berlin						52.3	79.2
Broker Consensus					58.2	113.7	



- = FY2023A revenue was composed of EUR 16.5m product sales and EUR 15m recognized on US license agreement
- In FY 2023 Enapter shifted its focus to marketing the multicore products which accounts for the nearly flat sales revenue as single core electrolyzer sales grew incrementally and orders flowed in for multicore products

Note: 1) 2023 Rev. included €15m from a US licensing deal at the end of 2023, of which €2m was paid at signing and the remaining is receivable. 2) FY25E – FY26E is based on the latest broker research from mwb research (22.11.2024), Bryan Garnier (09.01.2024), First Berlin (29.11.2024) and Pareto (22.10.2024). Note: 3): Enapter Guidance

Historical & projected EBITDA development

EBITDA (€m)

Broker research estimates²

	FY2020A	FY2021A	FY2022A	FY2023A	FY2024E	FY2025E	FY2026E
Enapter	(2.9)	(7.6)	(10.6)	1.5^{1}	(7)-(8) ³		
mwb research						(3.4)	18.6
Bryan, Garnier & Co						(20.0)	n/a
Pareto Securities						0	10
Flort Builta						(1.7)	5.1
			Broker	Consensus		(6.3)	11.2



Economies of scale in production ensure better margins.



Massive demand for megawatt systems underpins growth and automated production build-up.



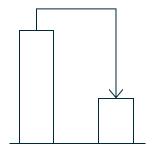
Note: 1) FY23 published 30 April 2024. 2) FY24E and FY25E is based on the latest broker research from mwb research (22.11.2024), Bryan Garnier (09.01.2024), First Berlin (29.11.2024) and Pareto (22.10.2024). Note: 3): Enapter Guidance



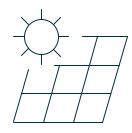


We honor our environment

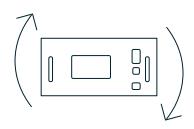
- We have analyzed our carbon footprint and reduced our Scope 1 and 2 emissions by more than 90 % since 2022.
- Our production site in Pisa is powered by 100% renewable electricity.
- We aim to make our production as circular as possible and have already developed a reverse logistics process to take back our electrolyzers at the end of their lifetime.
- We report according to European Sustainability Reporting Standards (ESRS) and Sustainability Accounting Standards Board (SASB).



90% less Scope 1 & 2 emissions



Production sites powered by 100% renewable energy



Circular production principles



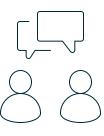
ESRS and SASB Reporting

We set high ethical standards in what we do

- We truly value our colleagues.
- We prioritize their well-being and development, fostering open communication and providing ample opportunities for growth.
- Our compensation packages are competitive, and we strive to maintain a positive and inclusive work environment that encourages collaboration and creativity.



Code of Conduct



Whistle-blower mechanism



202 employees 32% female 68% male



100% employees with social protection

Honors

Award winning company





















Enapter is supported and advised by experienced entrepreneurs, investors and academics

Supervisory board



Armin Steiner SB Chairman, Enapter SB Member zoo.de Ex-CFO, Beta System Co-Founder, Smaato



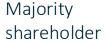
Ragnar Kruse SB Member, Enapter Co-Founder, AI.HAMBURG



Eva Katheder SB Member, Enapter SB Member, H2 Core AG



Prof. Dr. Christof Wetter SB Member, Enapter SB Member, 2G Professor, FH Münster





Sebastian-Justus Schmidt Co-Founder and former CEO of Enapter

- Mr. Schmidt co-founded Enapter in 2017 and led the company as CEO and co-CEO until 2023. He continues to remain closely involved in an advisory capacity and as majority shareholder.
- Previously founder and CEO of SPB Software, which was acquired in 2011 by US-listed Yandex for a double-digit million euro price tag
- Former Executive Vice President and GM Mobile for Yandex, Europe's largest internet company

Advisory board



Udo Filzmaier Board Member, e.battery systems F Technologies, Onwer/CEO



Prof. Hubert Gasteiger Uwe Raschke Professor, TU Munich Ex-Director Catalyst Technology, ACTA s.p.a



Former Member Board of Management, Robert Bosch GmbH



Christof Winker Cobira, Business Development cw-1 Consulting



Torsten Frühauf Angel Investor CEO Prokonzept Gmb H



Sergei Storozhenko Serial entrepreneur and Angel Investor



Boris Tatievski Founder of Bosger Holding, Autobooking 24/7, Bizol Germany



Nicolas Proisy Hydrogen Process Innovation Manager Johnson Matthey



Andrew Izzard Global Technical Applications Director Johnson Matthey







Investor Relations

<u>ir@enapter.com</u> <u>https://enapterag.de/investor-relations</u>

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Industrial solution | ABC Klinker, Germany



Decarbonising brick production

- 1 × AEM Flex 120 (multicore)
- 50 kg/24 h of green hydrogen





Mobility, research | Steinbeis Innovation Center, GF



Clean mobility research hub at megawatt scale

- 1 x AEM Nexus 1000 (multicore)
- 453 kg/24 h of green hydrogen





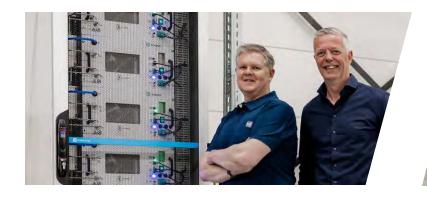
Industrial solution | Roto-Art, Netherlands



Replacing natural gas with green hydrogen for industrial ovens

■ 7 × electrolyser AEM EL 4.0 (singlecore)

■ 7 kg/24 h of green hydrogen





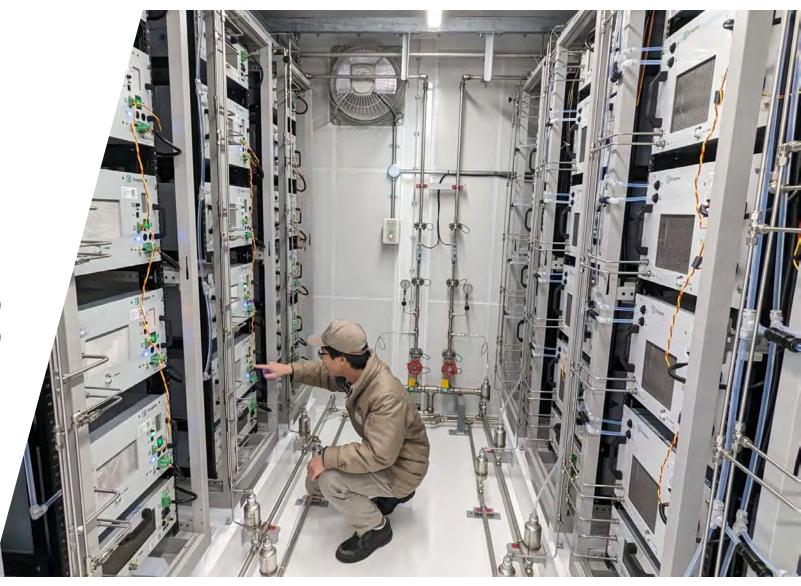
Industrial solution | Yanmar, Japan



Industrial H₂ pilots at Yanmar Clean Energy Site

- 14 × electrolyser AEM EL 2.1 (singlecore)
- 14 × electrolyser AEM EL 4.0 (singlecore)
- 28 kg/24 h of green hydrogen





Mobility | Tokyo Gas, Japan

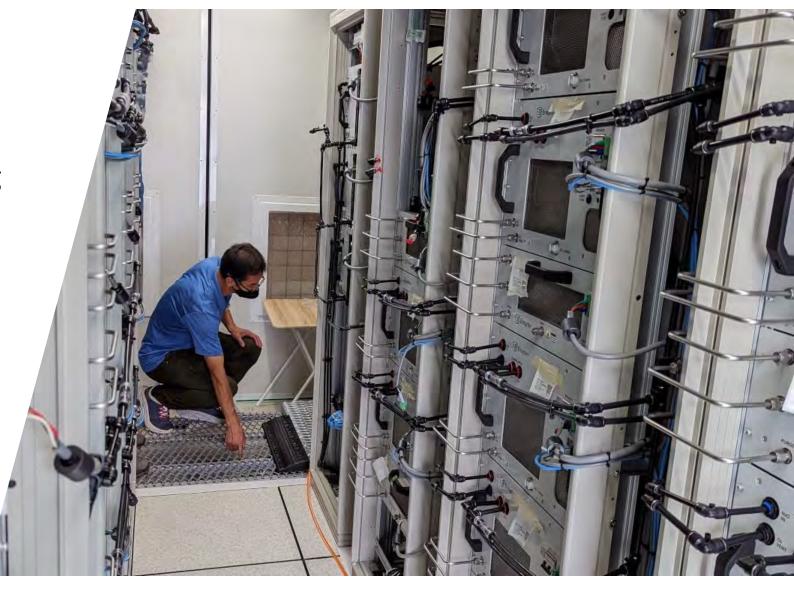


Commercial hydrogen refuelling station in Tokyo

■ 30 × electrolyser AEM EL 2.1 (singlecore)

■ 30 kg/24 h of green hydrogen





Mobility | ZeroAvia, UK



Mobile refuelling for hydrogen aircrafts

- 10 × electrolyser AEM EL 2.1 (singlecore)
- 10 kg/24 h of green hydrogen





Mobility | Baglietto, Italy



Green hydrogen production for the naval sector

■ 10 × electrolyser AEM EL 4.0 (singlecore)

■ 10 kg/24 h of green hydrogen





Electricity storage | Hylife Innovations, Netherlands



District-wide energy storage on a Dutch island

■ 30 × electrolyser AEM EL 2.1 (singlecore)

■ 30 kg/24 h of green hydrogen





Electricity storage | PowiDian Energy, France



Hydrogen seasonal storage in remote location

- 1 × electrolyser AEM EL 2.1 (singlecore)
- 1 kg/24 h of green hydrogen





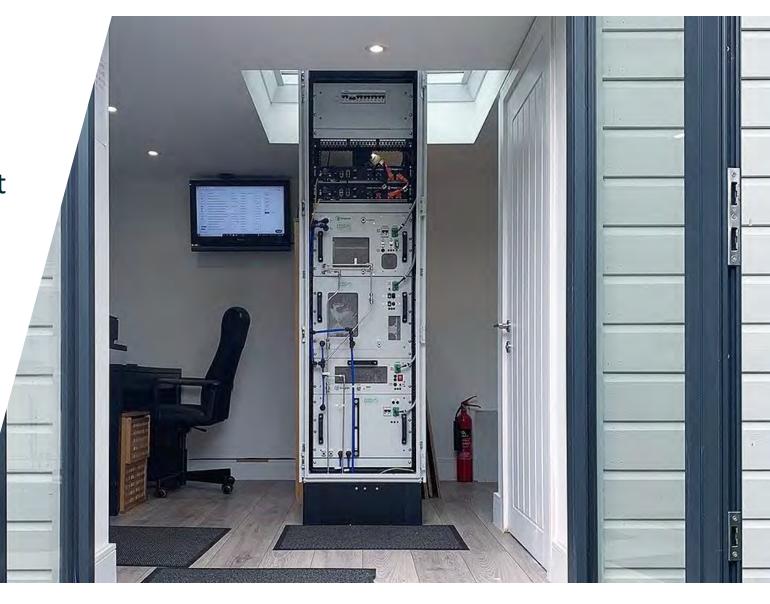
Electricity storage | Creo, UK



Autonomous energy management

- 2 × electrolyser AEM EL 2.1 (singlecore)
- 2 kg/24 h of green hydrogen





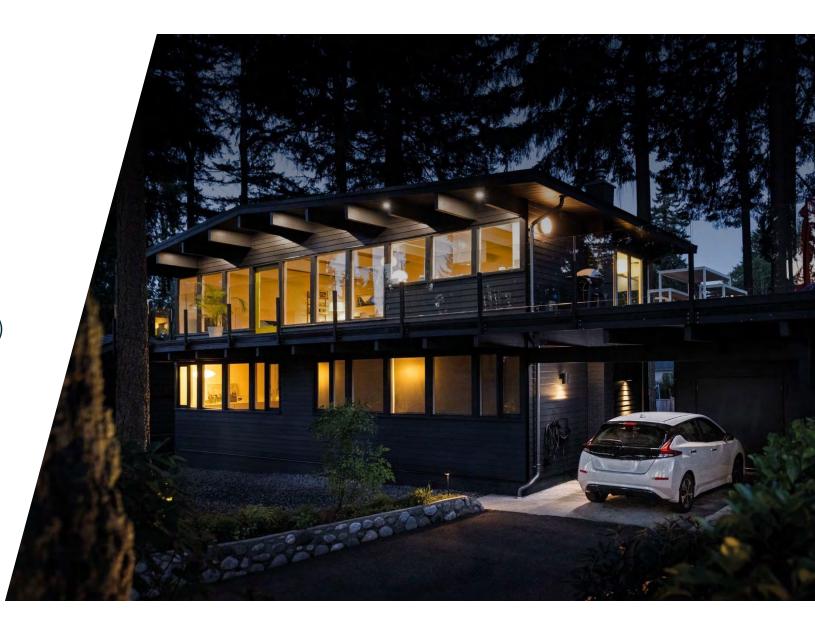
Electricity storage | Hybitat, Italy



Energy storage for buildings

- 1 × electrolyser AEM EL 4.0 (singlecore)
- 1 kg/24 h of green hydrogen





Electricity storage | Obayashi, Japan



Green hydrogen generation for Japanese construction sector

■ 2 × electrolyser AEM EL 4.0 (singlecore)

■ 2 kg/24 h of green hydrogen





Power-to-heat | DNVGL, Netherlands



Residential heating with hydrogen

- 8 × electrolyser AEM EL 2.1 (singlecore)
- 8 kg/24 h of green hydrogen





Research | Deep Branch, Netherlands



Protein creation with gas fermentation

■ 1 × electrolyser AEM EL 2.1 (singlecore)

■ 1 kg/24 h of green hydrogen





Research | University of Santa Catarina (UFSC), Brazil



Green H₂ production for diverse uses in Florianópolis

■ 9 × electrolyser AEM EL 2.1 (singlecore)

■ 9 kg/24 h of green hydrogen





Research | Czech Technical University, Czech Republic



H₂ mobility R&D at CTU Prague

■ 4 × electrolyser AEM EL 2.1 (singlecore)

■ 4 kg/24 h of green hydrogen





Research | CICITEM, Chile



Mobile green hydrogen plant for research

- 8 × electrolyser AEM EL 2.1 (singlecore)
- 8 kg/24 h of green hydrogen





Research | HyLab of MORE Munich Mobility Research Campus, Germany



Decentralised hydrogen production for mobility research

■ 48 × electrolyser AEM EL 2.1 (singlecore)

■ 48 kg/24 h of green hydrogen



Electricity storage | Wilo, Germany



H2POWERPLANT for backup energy & sufficiency

■ 95 × Electrolyser AEM EL 2.1 (single-core)

■ 95 kg/24 h of green hydrogen



