

TECO 2030

Fuel Cells & Hydrogen is the only pathway to ZERO EMISSION

Company Presentation, non-deal roadshow, May 2024

PARIS2015 UN CLIMATE CHANGE CONFERENCE COP21.CMP11

TOGETHER TOWARDS NET ZERO

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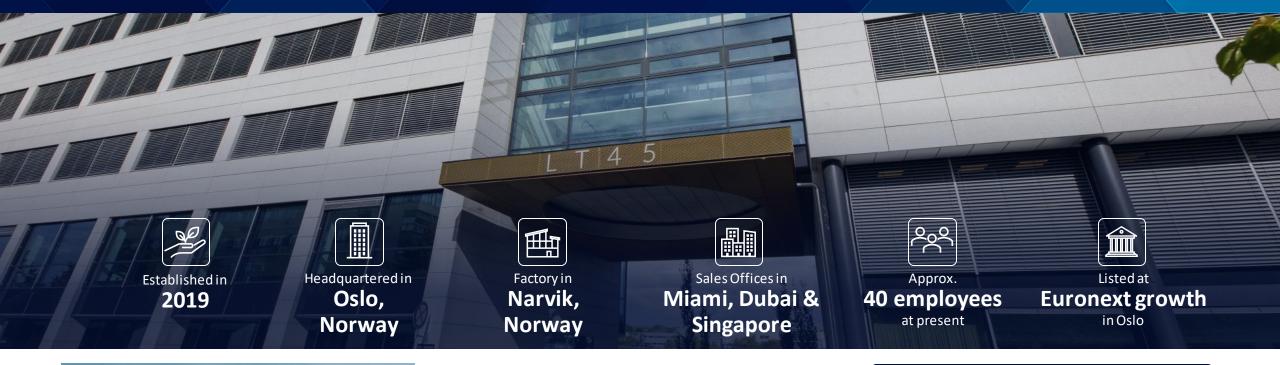
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Executive summary

TECO

TECO 2030 part of TECO Group







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Co-founded Scanship (now: VOW), converting waste into clean energy, world biggest player in the cruise industry. Biggest shareholder from 2008 – 2017.



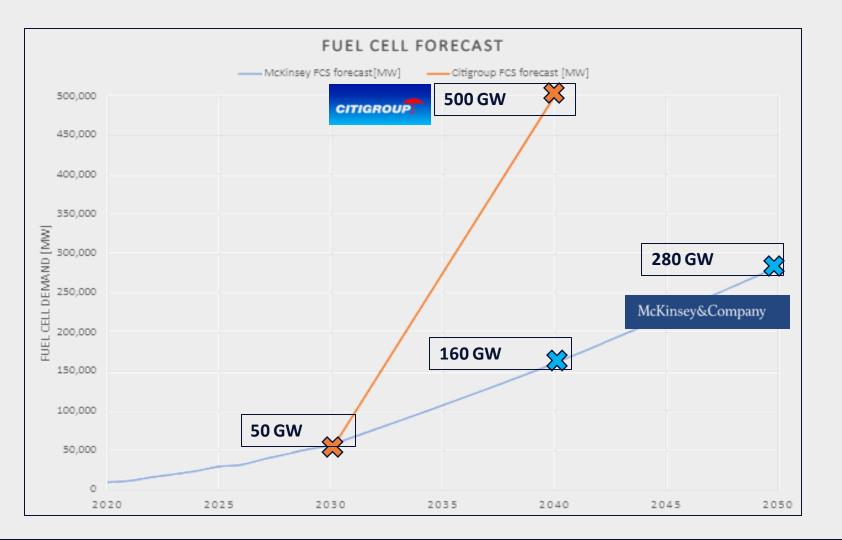
TECO 2030 is a spin off from the TECO Group.

Total of approx. 150 employees in 14 countries, and ~250 external service specialists.



Global fuel cell market, trillion-dollar market

FUEL CELL MARKET PREDICTIONS – HIGH DEMAND EXPECTED FROM 2024/25



CITIGROUP and McKinsey forecast

- 2025: 30 GW2026: 32 GW
- 2027: 38 GW
- 2028: 45 GW
- 2029: 51 GW
- 2030: 56 GW

TECO 2030 Giga Factory, Production Capacity

- From 2025 to 2030
- Capacity from 0,4 GW to 3,2GW

Source; McKinsey & Company, Hydrogen Counsel, Global Hydrogen Flows

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TECO 2030 business segments



Maritime and heavyduty applications

Retrofit, newbuilds, port applications



Stationary power generation

Power Generators, Data Centers, EV Charging stations



Mobility hydrogen fuel cell vehicles

Aviation, mining vehicles, trains & heavy-duty trucks





Offer license agreement for local production

Stack Production, Module Production, Full factory setup







Fuel Cell for defence applications



- Significant opportunities towards the defense industry in collaboration with the right partners.
- Flexible towards the sector by having inhouse module and stack design.
- Currently discussing strategic collaboration with a potential partner
 - Mobile power / Disaster relief units
 - Air Independent Power systems.
- Other segments identified:
 - Coastal patrol/coastguard
 - General logistical support functions





Logistic emission reduction



Coastguard emission reduction

Mobile power / Disaster relief



Air independent Power capability



A Euronext listed Norwegian public company



- Approx. 40 people employed at present
- Approx. MNOK 500,- in market cap
- Approx. MNOK 440,- raised in equity
- Approx. MNOK 15,- in a convertible bond loan
- Approx. MNOK 200,- in various funding support and grants, project and development related.
- HQ in Oslo, Gigafactory in Narvik, Norway
- Sales offices in Miami, Dubai & Singapore
- Approx. 130 active fuel cell projects ongoing











Latest news



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EUR 1,4 billion in outstanding quotes at present



Represents approx. 130 projects worldwide, another 100 projects underway, not quoted yet.



Ongoing projects







Ongoing

Ongoing

🗱 Implenia 🛛 ENOVA

- Zero emission for construction site
- 0,8 to 1.6 MW fuel cell
- Up to 100% emission reduction in port



- High speed passenger vessel
- Up to 300 pax
- Speeds over 35 knots
- 3.2 MW fuel cell, Concept phase





- EU Horizon project, Europe, MEUR 5,-
- SHELL funding MUSD 5,-
 - 2,4 MW Fuel Cell installation
- World biggest ongoing retrofit

Annonia 21 generation 12 mW FUEL CELL MORE POWERD BY TEC



Ongoing

Ongoing

Ongoing

- TECO 2030 delivery scoop includes a complete system of fuel cells installed on a skid solution as well as power and automation equipment
- A 12 MW Fuel Cell installation for full propulsion
- 6 x 63 000 DWT. First deliver 2027
- Project pending financing





- 40t / Class 8 HD Truck
- Easy retrofit solution
- Demonstration expected first half 2024
- 4 x 100kW TECO 2030 FC stack





- EU Horizon project, Croatia, MEUR 13,5-
- Passenger ferry
- 1,2 MW Fuel Cell installation
- 100% emissions-free, 300 pax

Promising prospects



Prospect

Prospect



Prospect

- 5000 TEU container vessel
- 1.6 MW fuel cell
- Zero emission auxiliary power
- Up to 100% emission reduction in port



- Bulk carrier, newbuild
- Multi megawatt size
- Fully Hybrid
- Up to 100% emission reduction



Prospect

6 – 8 MW fuel cell

2 Vessels

2 X 2,8 MW

Fully financed

- Ship to shore connection
- Zero emission port operation

Zero Emission Operation

Up to 100% emission reduction in port





- Container vessel, 1000 TEU
- 3,2 MW Fuel Cell
- Fully hybrid
- Up to 100% emission reduction



Prospect



Prospect

- Signed Supply Frame Agreement
- 50 Tugboats and 120 barges
- Up to 200 MW
- Waiting EU funding

Milestones & where we're headed





TECO 2030 ASA

Company Presentation

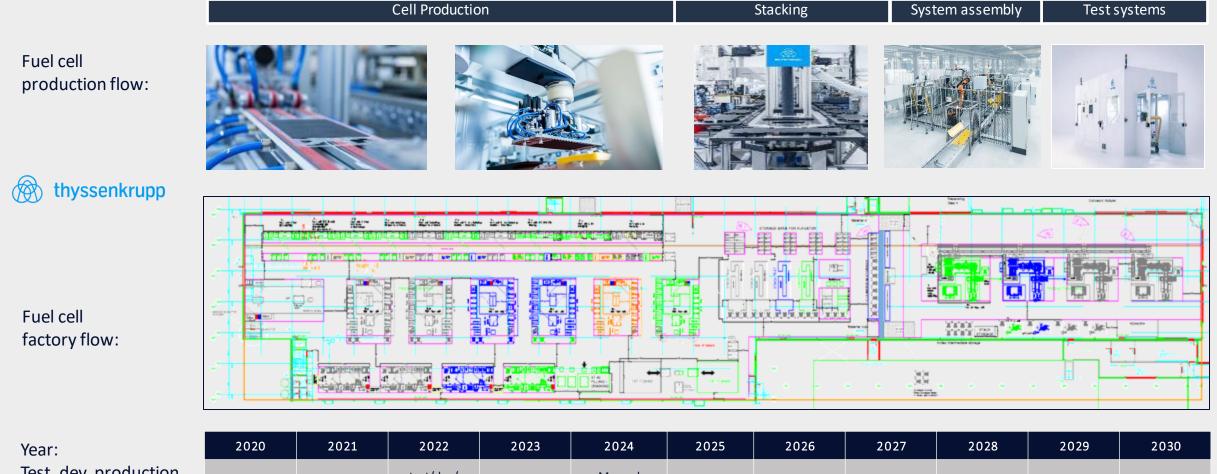
Our factory, 15.000 sq meter northern Norway





Giga fuelcell factory ready to start production





Test, dev, production Max. Output Capacity

	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
roduction ut Capacity:	test/dev	test/dev	test/dev/ first stack	First Module	Manual production	42MW	375MW	800MW	1200MW	1600MW	3200MW

Factory potential production capacity



Year of Production	2026	2027	2028	2029	2030
Production capasity output (MW)	400	800	1200	1600	3200
Hypothetical price indication per kw sold in EUR	1000	1000	850	750	700
Hypothetical sales per year MEUR	400	800	1020	1200	2240
Hypothetical gross margin 30% MEUR	120	240	306	360	672
Hypothetical EBITDA margin of 20% MEUR	80	160	204	240	448

FOR CALCULATION PURPOSES ONLY

TECO 2030 can not guarantee for any of the numbers above.

We are facing a global problem, which fuel cell solves





Significant reduction of CO₂ emissions are required to achieve the 2°C Paris climate target



Core Technology & development partner

World premier, November 2023





- Fuel cells are the next generation of engines and power generators, where hydrogen is the fuel.
- Operating one of this unit instead of a diesel generator, saves our planet over 9000 tons of CO₂ emissions – during 35,000 hours of operation.
- Switch to fuel cells signifies a major step in supporting the clean transition targets under the European Green Deal, the U.S. Inflation Reduction Act and other frontrunner regions.

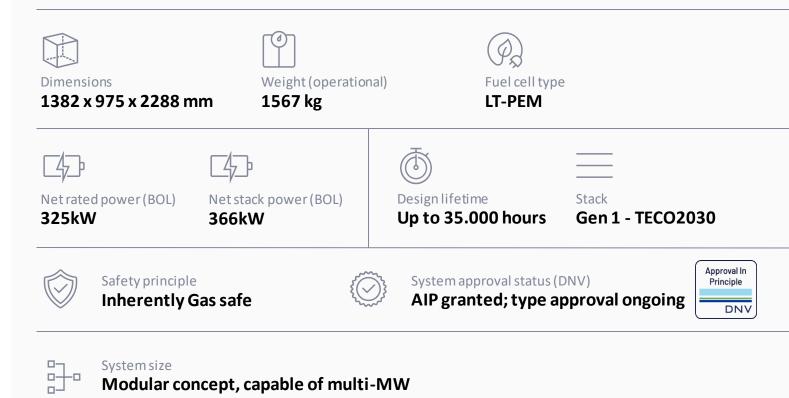


Fuel Cell Module (FCM400) key figures





FCM400 Key figures



Fuel Cell Stack (FCS100) key figures



FCS100 Key figures



Dimensions	Weight (operation	nal) Fuel cell type	2
160 x 460 x 705 mm	53 kg	LT-PEM	
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Net rated power (BOL)	Net peak power (BOL)	Design lifetime	Stack
110+ kW	130+ kW	Up to 35.000 hours	Gen 1 - TECO2030



Operational requirements

According to DNV Emergency gen set rules



System approval status (DNV) AIP granted; type approval ongoing

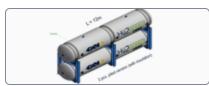


FCM400 – Low feed pressure is the key



Methanol / Ammonia Pre-treatment Active research on pre-treatment







Liquid organic hydrogen carriers (LOHC) Eliminates the need for compression and makes it safer

Unique fuel tank-fuel cell heat regulation system

Metal Hydride hydrogen storage











Can operate on pressure ranges up to 700 bar



Development partnering



TECO2030 have partnered with AVL for the development of the FCM400 and the unique stack platform that powers it.

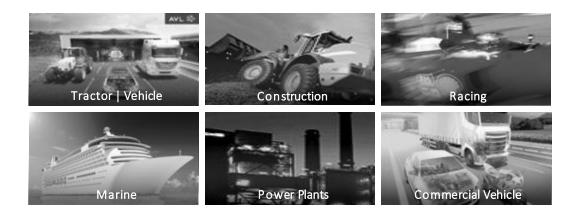
AVL is the world's largest independent company for the development, simulation and testing of powertrain systems.







AVL is experienced in ships engines, cars, construction and commercial vehicles, as well as large engine applications for power plants, trains, mining and other heavy machinery.



TECO 2030 ASA

Company Presentation

Prime partners & stakeholders, the pathway to success



TECO

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Logistic emission reduction



Coastguard emission reduction

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Mobile power / Disaster relief

Air independent Power capability



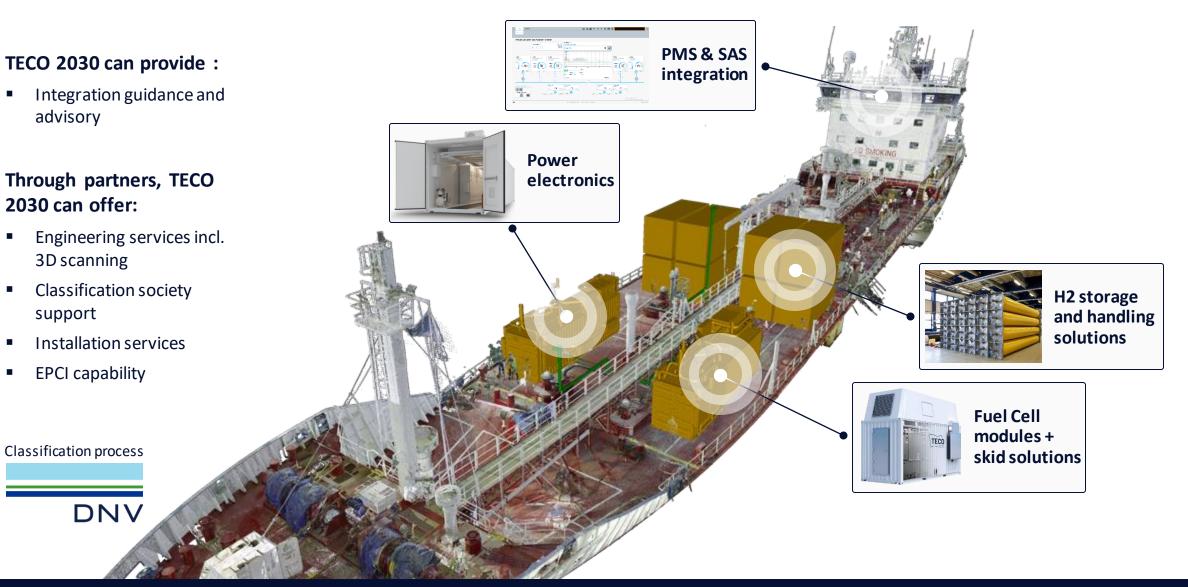


PROJECT COMPETENSE, ESG & MANAGEMENT TEAM

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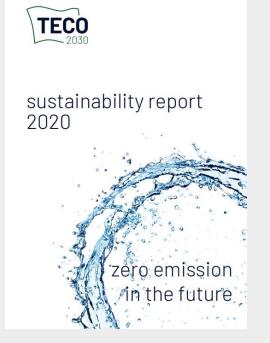
TECO 2030 Project competence





Annual TECO 2030 ESG Reports





https://teco2030.no/wpcontent/uploads/2021/05/TECO-2030-Sustainability-Report-2020.pdf



https://teco2030.no/wpcontent/uploads/2022/04/TECO2030 ESG2021 220428.pdf





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https://teco2030.no/wpcontent/uploads/2023/04/TECO-2030-ESG-Report-2022.pdf

17 PARTNERSHIPS FOR THE GOALS

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15 LIFE ON LAND

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Team





Tore Enger CHIEF EXECUTIVE OFFICER

Founded TECO Group and TECO Maritime Group in 1994. Tore is a true entrepreneur and has initiated a large number of products and services to the Maritime Industry throughout the last 28 years. He has an extensive network in the Marine Industry world-wide.

Tore was the Executive Chairman major shareholder in and Scanship Holding ASA (renamed VOW ASA), listed on the Oslo Stock Exchange for approx. 10 years, (2008 - 2017).



Tor-Erik Hoftun **CHIEF STRATEGY OFFICER**

Holds a Bachelor of nautical science from the University of South-East Norway, combined with a specialization in artic ship operations from the university center of Svalbard

been part of the TECO Group of companies for 12 years

Last 4 years in various management positions at TECO 2030 prior to this, 7 years in various positions in (VOW ASA) Scanship. Last position as project development manager Further, Tor-Erik has experience from Oceania Cruises, sailing as deck officer.



in Finance

and

Paal Christian Johnsen CHIEF FINANCIAL OFFICER

Holds a Bachelor of Commers (Hons) Accounting from the Flinders University of South Australia. He has been part of the TECO

Group of companies for 8 years, the last four years as CFO in TECO 2030. Prior to this, he worked 6 years as CFO in AS Naturbetong. Further, Pål Christian has 6

years' experience from the Norwegian Police force, where of three years at the National Authority for Investigation and Prosecution of Economic and Environmental Crime. He has been a board member in various companies within the real estate and maritime sector.



CHIEF OPERATING OFFICER

Over 10 years of experience in project management and engineering at AVL. Leading project teams in Fuel Cell Systems, HV Battery Pack development an DE for various OEMs (e.g. DAIMLER, MAN, CAT, Ford, Maserati,).

4 years project management for fully automated intralogistics systems at SSI SCHÄFER.

2 years on-site project management in the US to develop logistics systems for Walmart, Walgreens, Amerisource etc.

MSc Automation Technology & Business from CAMPUS 02 University of Applied Sciences and Technical University of Dublin.



Arild Eiken CHIEF TECHNOLOGY OFFICER

Head of the Fuel Cell & Hydrogen technology. 23+ years within Fuel Cell & Hydrogen, Maritime and Offshore O&G industries. Working experience from Equinor, Aker, Aibel, NOV, HAV Design, Ulstein Group and HYON a joint venture previously owned by PowerCell Sweden AB, Nel ASA and Hexagon Composites ASA.

Educated Naval Architect -Marine Technology at the Norwegian University of Science and Technology



Shyam Thapa CHIEF DEVELOPMENT OFFICER

Shyam Thapa has held a profession within maritime Research & Development for more than 12 years. Mr. Thapa has been in charge of R&D in a Yara Marine Technologies turning startup into a multinational 350 employee company. Thapa has developed multiple new product lines and successfully been awarded five patents.

He joined TECO 2030 in October 2020 and he is part of TECO 2030's management and technical Leadership team. He is responsible for developing and executing the organization's technology strategy in alignment with its overall business objectives.

Team





Fredrik Aarskog BUSINESS DEVELOPMENT DIRECTOR

M.sc. Electrical power engineering. 8 years R&D experience within maritime fuel cell systems and 5 years within development of MW-scale power converters for O&G. Holds 15+ patent applications. Has been leading TECO 2030 state aid activities and secured 2 Horizon Europe, 1 Innovation Norway, 1 ENOVA and 2 Skattefunn grants (total grants >€26 million) for fuel cell development and piloting, so far.



Erling Hoftun managing director teco 2030 as

Erling Hoftun started in TECO 2030 in 2021 as Vice President Special projects. Mr Hoftun was responsible to establish a factory in Norway for producing fuel-cell stack and modules. When the facility in Narvik was secured, Erling had the responsibly to establish a management team locally in Narvik. In 2022, he took over the role as Managing director in TECO 2030 AS, and as the chairman of the board in TECO 2030 Innovation Center AS. Erling was a part of the startup team when Scanship Engineering (Vow ASA today) was established in 1993. During his tenure in Scanship, he held various roles. Other than that Erling has experience from the O&G, real estate and piping industries.



Rune Karlsen managing director teco 2030 innovation center

joined Rune Karlsen TECO 2030's team in Narvik in December 2021. Rune was previously a part of the management team of the REC Scancell factory, which was located in the same facility as the TECO 2030 Innvoation Center is today. Rune has experience within factory rampup from his time in REC Scancell. where they employed approx. 310 employees in less than 4 years. In addition, he has management extensive various experience from industries during his professional career. Karlsen has an MSc. in process technology from the University of Telemark and a BSc. in mechanical engineering from Narvik University College.



Bettina Nowak CHIEF EXECUTIVE OFFICER, USA

Bettina, 20 years of Maritime Experience. She started working for Scanship (VOW ASA) and the Cruise Industry in 2004. In 2007 Bettina entered the position as Managing Director and Partner for Scanship Americas, a position she held for 11 years. She joined TECO in March 2018 as CEO in Miami responsible for US Operation. 15 years within The TECO Group of companies with strong connections to the Maritime Industry in the USA.



Nikhil Garg Managing Director, Apac

Rizkallah Abed managing partner middle east

Nikhil is working as Director of Rizkallah demonstrates an impressive Business Development and Sales track record of more than 30 years' for Asia Pacific region and is experience in international responsible for creating strategic corporations as a regional executive partnerships with Governments leading multi-national teams in multiand Industries. He holds a division matrix organizations. Set up Business and managed operations, local Master of Administration in Strategy & productions and service center's as Organization and a Master of well as sales channels all over the Science in Marine & Offshore MENA geographical area. Building on from National this international exposure, Rizkallah Technology University of Singapore. He is an has led profitably and successfully accomplished business leader highly reputable and diversified GCC with a career span of more than businesses.

16 years in the LNG & Young Presidents' Organization (YPO) Renewable Energy sector in - MENA Gold Chapter -Board Singapore. He has worked with Member. Engaged in talents Keppel Offshore & Marine for 14 education and coaching as years in various leadership roles Supervisory Board Member in executing FPSO & FLNG projects American University of Dubai and Canadian University of Dubai.



Thank you for your attention

post@teco2030.no

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