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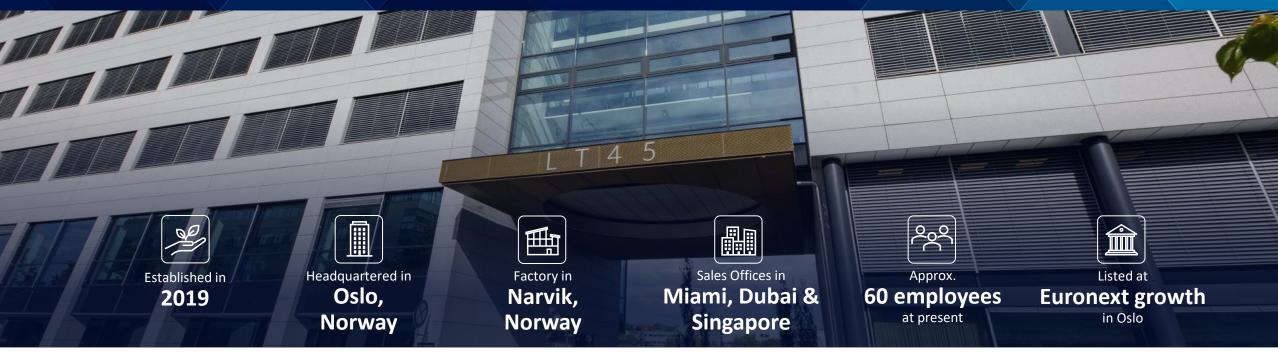


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### **TECO 2030 part of TECO Group**









 $\ensuremath{\mathsf{TECO}}$  2030 is a spin off from the TECO Group.



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



TECO Group has 30 years experience in ship repair, marine engineering, installation and integration, automation and electronics, chemicals and logistics.



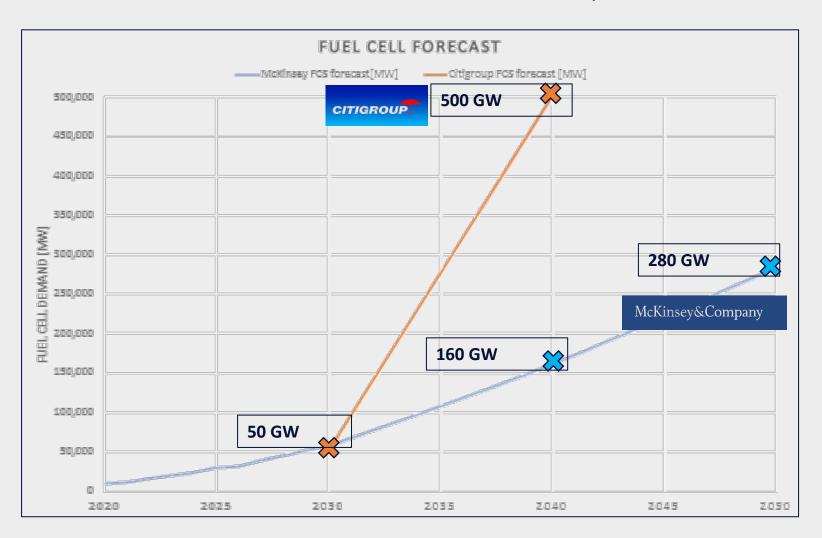
Total of approx. 150 employees in 14 countries, and ~250 external service specialists.



### Global fuel cell market, trillion-dollar market



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



#### **CITIGROUP and McKinsey forecast**

2025: 30 GW

2026: 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

### **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



Air independent Power capability





Coastguard emission reduction



Mobile power / Disaster relief





### 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













### 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

- Zero emission for construction site
- 0.8 to 1.6 MW fuel cell

- Up to 100% emission reduction in port

**ENOVA** 

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



Ongoing





- SHELL funding MUSD 5,-
- 2,4 MW Fuel Cell installation
- World biggest ongoing retrofit



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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

Ongoing





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



Ongoing

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

### **Promising prospects**





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









**Prospect** 

- 6 8 MW fuel cell
- Ship to shore connection
- Zero emission port 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

- 2 Vessels
- 2 X 2.8 MW
- Zero Emission Operation
- Fully financed

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

### Milestones & where we're headed





















# Our factory, 15.000 sq meter northern Norway





## Giga fuelcell factory ready to start production

**Cell Production** 



Fuel cell production flow:







Stacking



System assembly



Test systems



Fuel cell factory flow:

Year: Test, dev, production Max. Output Capacity:

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2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
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 CO<sub>2</sub> emissions are required to achieve the 2°C Paris climate target



### 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 CO<sub>2</sub>
   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







**Dimensions** 

Weight (operational)

Fuel cell type

1382 x 975 x 2288 mm

Net rated power (BOL)

1567 kg

LT-PEM



325kW



366kW







Stack

**Up to 35.000 hours** 

Gen 1 - TECO2030



Safety principle

**Inherently Gas safe** 



System approval status (DNV)

AIP granted; type approval ongoing





System size

Modular concept, capable of multi-MW

# Fuel Cell Stack (FCS100) key figures





### **FCS100** Key figures







**Dimensions** 

Weight (operational)

Fuel cell type

160 x 460 x 705 mm

53 kg

LT-PEM









Net rated power (BOL) Net peak power (BOL)

110+ kW 130+ kW Design lifetime **Up to 35.000 hours** 

Stack 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
Active research on pre-treatment

Pre-treatment





Metal Hydride hydrogen storage

Unique fuel tank-fuel cell heat regulation system





Liquid organic hydrogen carriers (LOHC)

Eliminates the need for compression and makes it safer





Liquid hydrogen (LH<sub>2</sub>)

Maintains high efficiency with low H2 input pressure





Compressed hydrogen (CH<sub>2</sub>)

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.

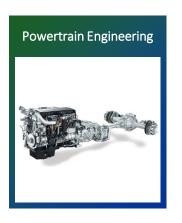
75 years track record

1500 + engines designed 1.86 BN EUR in sales in 2022

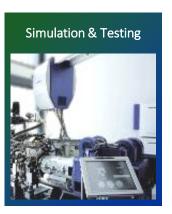
11% of yearly sales goes back to into R&D

11 200 HQ Graz,









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.

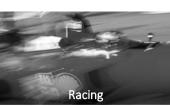














### Prime partners & stakeholders, the pathway to success





























































## **Fuel Cell for defence applications**



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Logistic emission reduction



Coastguard emission reduction



Mobile power / Disaster relief



Air independent Power capability





### **TECO 2030 Project competence**



#### **TECO 2030 can provide:**

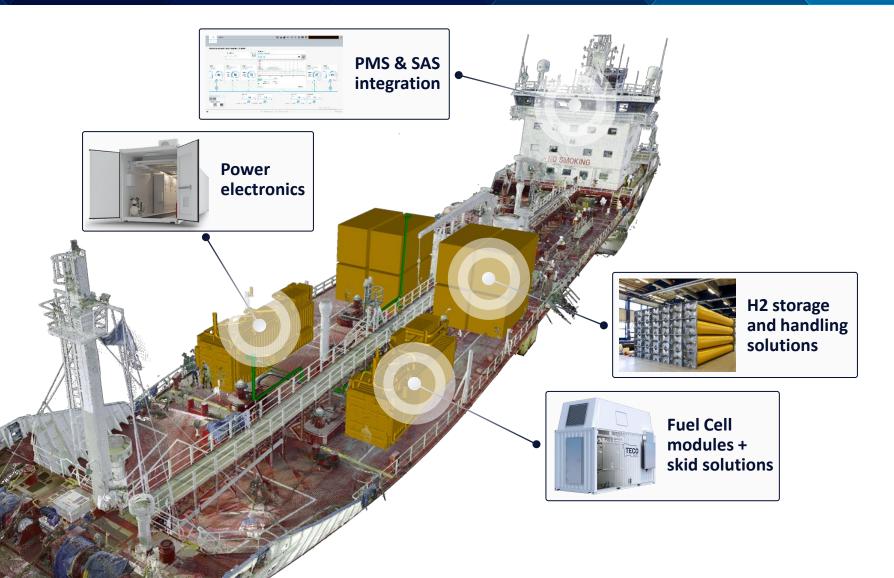
Integration guidance and advisory

### Through partners, TECO 2030 can offer:

- Engineering services incl.3D scanning
- Classification society support
- Installation services
- EPCI capability

Classification process

DNV



### **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



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



















### Team





Tore Enger **CHIEF EXECUTIVE OFFICER** 

Founded TECO Group and TECO Holds a Bachelor of nautical Maritime Group in 1994. Tore is science from the University of a true entrepreneur and has South-East Norway, combined initiated a large number of products and services to the Maritime Industry throughout center of Svalbard the last 28 years. He has an extensive network in the Marine Industry world-wide.

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



Tor-Erik Hoftun **CHIEF STRATEGY OFFICER** 

with a specialization in artic ship operations from the university 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.



Paal Christian Johnsen **CHIEF FINANCIAL OFFICER** 

Holds a Bachelor of Commers (Hons) in Finance and 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, whereof 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.



Hans-Peter Klein **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 Walgreens, Walmart, Amerisource etc.

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



Arild Eiken **CHIEF TECHNOLOGY OFFICER** 

Hydrogen technology.

Hydrogen, Maritime 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

Head of the Fuel Cell & Shyam Thapa has held a profession within maritime 23+ years within Fuel Cell & 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 alignment with its overall business objectives.

### Team





Fredrik Aarskog **BUSINESS DEVELOPMENT DIRECTOR** 

Electrical M.sc. 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 Erling secured, 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** 

Rune Karlsen joined 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 extensive management from various experience industries during his professional career. Karlsen has an MSc. in process technology from the University of Telemark and a BSc. in mechanical from Narvik engineering 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 Garq MANAGING DIRECTOR, APAC



Rizkallah Abed MANAGING PARTNER MIDDLE EAST

for Asia Pacific region and is experience Master Technology with a career span of more than businesses. Renewable Energy sector in - MENA Gold Chapter -Singapore. He has worked with Member. Keppel Offshore & Marine for 14 education years in various leadership roles Supervisory

Nikhil is working as Director of Rizkallah demonstrates an impressive Business Development and Sales track record of more than 30 years' 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 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 University of Singapore. He is an has led profitably and successfully accomplished business leader highly reputable and diversified GCC

16 years in the LNG & Young Presidents' Organization (YPO) Engaged in talents coaching and Board Member executing FPSO & FLNG projects American University of Dubai and Canadian University of Dubai.

