

# TECO 2030 PEM FUEL CELL

Zero Emission Hydrogen Fuel Cell



Approval In  
Principle



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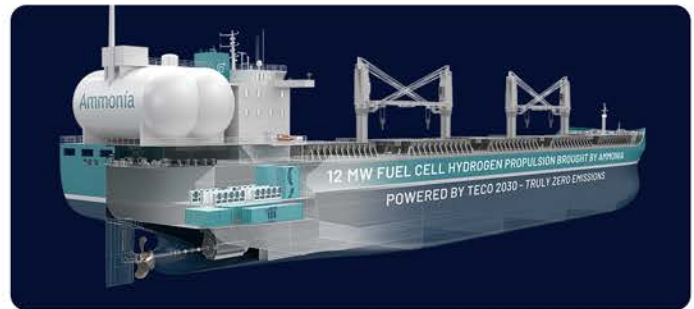
# On a mission towards zero-emission.

Fuel Cells powered by green hydrogen are today the only feasible option for zero-emission heavy-duty applications.

Some examples of heavy-duty fuel cell use cases are mentioned in the projects below:



- Product tanker
- Multi megawatt fuel cell size
- Fully hybrid
- Up to 100% reduced emissions in port and during voyage



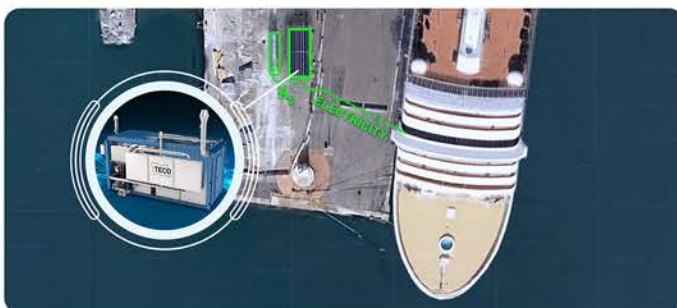
- Ultramax Dry Bulk 63.000 dwt
- 12MW fuel cell powered by Ammonia
- Enabling zero-emissions deep sea transport
- Newbuild vessel to be in operation by 2027



- Container vessel, 500 TEU
- Multi megawatt fuel cell size
- Fully hybrid
- Up to 100% reduced emissions in port and during voyage



- Passenger high-speed vessel
- Multi megawatt fuel cell size
- Zero-emission
- Up to 300 pax and speeds over 35 knots



- Shore power application
- Multi megawatt fuel cell size
- Zero-emission
- Large capacity for powering cruise ships



- Fuel Cell Power Generator
- Multi megawatt fuel cell size
- Zero-emission
- Suitable for any energy intense application





## FCM 400™

400 kW CAPACITY

### DIMENSIONS

FCM 400 structural cabinet outermost dimensions and weight	L 1382 x D 975 x H 2288 mm / 1567 kg <sup>1)</sup>
Rated power (BOL), system level	325 <sup>2)</sup> kW
Design lifetime   Recommended stack placement due to TCO	35.000 hours   ≤ 30.000 hours

<sup>1)</sup> Dry weight.

<sup>2)</sup> Rated power (max continuous net power output) is 325 kW on system level, which corresponds to 366 kW at stack level.



## FCC 1600™

1.6 MW CAPACITY

Equivalent to  
**2 160 HP**



## FCC 3200™

3.2 MW CAPACITY

Equivalent to  
**4 320 HP**



## FCC 6400™

6.4 MW CAPACITY

Equivalent to  
**8 640 HP**



TECO 2030 PEM Fuel Cell emits no greenhouse gases, only water vapour and hot air.



Designed according to marine standards.



Scalable from 400 kW to multimegawatt.



TECO 2030's strategic technology partner, AVL, has more than 20 years of experience in fuel cell development.



## Why TECO 2030 Fuel Cell?



**Turnkey solutions** from survey through installation and commissioning



**Zero-emissions**, only water vapour and warm air



**Fuel cells** can be used to decarbonize heavy duty applications



**Low maintenance** and easy operation



**Optimized** design through advanced simulation



**Competitive** CAPEX and OPEX



**Flexible**, modular design



**Customizable** design to all kinds of heavy duty and marine applications



**400 MW** annual production at TECO 2030's Gigafactory by 2025