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After cars, battery-powered boats are the next frontier.

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The slender boat lurches forward, its four passengers clinging to the

wooden deck as they surge past the Monaco skyline. For all its

be out of place with climate activist Greta Thunberg at the wheel, rather than the moneyed elite flocking to the principality in search of a new toy. "Such aggressive acceleration is only possible with electric drives," says Peter Minder, as he commands the 250,000-euro (\$277,000) boat built by his company Designboats.ch. Only the air stream and a

sculpted lines and awesome acceleration, the white cruiser wouldn't

high-pitched buzz from twin electric engines betray a speed of almost 30 miles per hour. "Our clients increasingly want to enjoy their maritime hobbies without emissions and noise. But they still want to have fun." **Bloomberg Pursuits** Final cost in for Mets' sorry 2023 season \$420 million in payroll plus luxury tax

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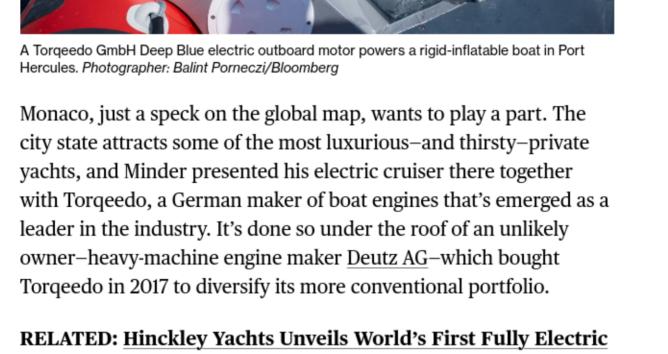
women's summit in New York

While electric cars are a realistic alternative to the century-old

by ships that belch plumes of diesel exhaust and heavy fuel oil. But because of long life cycles and a shortage of charging infrastructure and advanced batteries, converting ships is difficult. That hasn't

internal-combustion engine, the world's waterways are dominated

stopped governments from Norway to Thailand insisting on a greener future.



bigger slice of the market. "We expect a lot from ferries and water taxis, and we want to be a

player when Amsterdam, Paris, and Venice electrify their fleets,"

This year, Torqeedo aims to sell its 100,000th electric engine, most

of which power smaller leisure boats. But Torqeedo has its eyes on a

Luxury Boat

vessels."

company founder Christoph Ballin said.



"Electric drives are increasingly playing a role for vessels of limited

coast," said Peter Mueller-Baum, a managing director at Germany's

VDMA machinery association. "This could become an important

segment, because it theoretically encompasses a large number of

There are already Torquedo-powered ships on several continents. In

size and for limited distances-on lakes and rivers, and near the

southern Spain, a solar-driven ferry for 120 passengers covers a distance of almost 10 kilometers eight times a day on the Mar Menor lagoon. Smog-plagued Bangkok is readying seven ferries that will operate along the Khlong Phadung canal later this year, and there are also ferries with Torqeedo drives in Dubai, and in Ottawa. Even Thunberg, the Swedish green activist, turned to Torqeedo technology for her trans-Atlantic traverse in a sailing vessel this

month, when several tender boats with electric propulsion escorted

her ship out of Plymouth harbor in the U.K.

For parent Deutz, Torqeedo is a laboratory to study alternative

drives. The company, which has produced combustion engines for

more than 150 years, already kitted out a telescopic handler and a

small excavator with an electric drive, as pressure mounts from

cities and municipalities to upgrade construction machines and

For now, Torqeedo still weighs on its parent company's accounts.

half of this year, according to Deutz's latest interim report, a

Torqeedo's operating loss amounted to 8.2 million euros in the first

deterioration to the previous year's figure because of a 2.5 million-

reduce emissions and noise. "Almost all of our customers are more or less intensively looking at

electric drives," said Deutz CEO Frank Hiller.

for many Torqeedo drives come from BMW.

customers at the Munich-based carmaker.

Solar ferry in Murcia, Spain. Source: Torqueedo GmbH

euro provision tied to product recall from faulty batteries. Torqeedo gets its technology from the road, adapting components from the automotive industry to save development costs and benefit from economies of scale, Ballin said. For example, the power stores

"The hardware is the same, we only change the software," said

Soeren Mohr, who works on electric engines for industrial

CCN's Vanadis hybrid-driven superyacht. Source: CCN The field in which Torqeedo operates is becoming increasingly crowded. German industrial behemoth Siemens AG has equipped ferries in Norway and Finland. In May, Italian shipyard CCN

presented an hybrid-driven super yacht with propulsion systems by Siemens and marine specialist Schottel GmbH. Besides greener credentials, there's another benefit of switching to battery power, said Felix von Borck, co-founder of German industrial battery producer Akasol AG.

"If you own a hundred-meter super yacht or a smaller boat, and you are able to navigate silently and emission-free, you get a better berth."

the glitzy harbor below-location is still everything.

And in places like Monaco-whether on the crowded landmass or

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