

Solar-powered boat travels around the world

What is the largest solar-powered boat in the world?

MS Tûranor PlanetSolar, known under the project name PlanetSolar, founded by the Swiss explorer Raphaël Domjan, is the largest solar-powered boat in the world [2] and launched on 31 March 2010. The vessel was designed and engineered by LOM Ocean Marine.

Why is a solar-powered ship the world's first ship?

There's a reason why this boat stands out: last year it became the first ship to circumnavigate the globe on solar power alone. The 89,000 kg (nearly 100 ton) ship needs a massive solar array to capture enough energy to push itself through the ocean.

How much solar power does a ship have?

The 31-metre boat is covered by 537 m² [6] of solar panels rated at 93 kWp, [7] which in turn connect to two electric motors, one in each hull. [2] There are 8.5 tons of lithium-ion batteries in the ship's two hulls. [8] The boat's shape allows it to reach speeds of up to 10 knots (19 km/h). [1]

How long did Tûranor PlanetSolar sail?

During the expedition, Tûranor PlanetSolar broke two records: the fastest crossing of the Atlantic Ocean by solar boat and the longest distance ever covered by a solar electric vehicle. Tûranor PlanetSolar returned to Monaco on 4 May 2012 after 584 days sailing around the globe.

Is the MS Tûranor PlanetSolar a ship?

"The MS Tûranor PlanetSolar is much more than a ship," said Immo Stroeher, the German entrepreneur whose investment made the trip possible. "It has become an ambassador of solar energy. The arrival in Monaco is only the start! We now have to take advantage of the fame of PlanetSolar in order to promote the use of solar energy."

Is PlanetSolar a carbon-free boat?

Since the PlanetSolar is seaworthy and is emission-free, it allows the team to ensure that measurements aren't skewed by exhaust. During the New York stopover press was invited aboard the PlanetSolar for a view of this boat that functions without any carbon emissions.

He retired from teaching in 2013 to start his solar boat-building company, Solar Sal, and set out to build a 25-foot solar-propelled boat using the design from a vintage wooden hull that dates back to 1906 when builders ...

The vessel might not be the most practical -- it's big, it's slow, and it needs to avoid clouds -- but it's a bold demonstration of how renewable resources might power ships of the future ...

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At 2:12 PM local time today, the MS Tûranor entered Monaco's Hercule Harbor, becoming the first ship to travel around the world using only solar power. It's the same harbor where the...

In fact, it's pretty rare these days to see any type of boat that doesn't have a solar panel installed. But choosing the right solar panel for your boat can be easier said than ...

The 100-foot-long boat is powered by a sophisticated energy system that uses power from solar and wind, stores long-term energy in hydrogen and stores short-term energy in batteries. The Energy Observer features 2174 ...

The world's largest fully solar-powered boat, "Turanor PlanetSolar," docked in New York on Tuesday during a mission to study the effects of climate change on the Gulf Stream current.

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