



Candela Speed Boat

Candela Speed Boat, a pan European start-up, is revolutionising the ways boats are built. Through low weight, hydrofoils and energy dense batteries, they get an all-electric boat that runs 5 times longer than current electrical boats. This means a boat that competes with the speed and range of fossil burning boats. In addition, the boat is almost completely silent, makes no wakes, runs with nearly no costs, and rides evenly in waves and wakes. Clearly a revolution.

Inspired by the boom in electric cars and the high speeds achieved with hydrofoils in sail boat racing, the Swede Gustav Hasselskog decided to develop an all electric boat that can replace traditional combustion engine boats. Thus far, the problems with electrical boats have been very low speed, short range or both. Hence the market for electrical boats is still small.

Hydrofoils are wings put under the water making the entire hull airborne. The technology is old but has resurfaced recently due to the developments of carbon fibre technology. As can be seen on America's cup boats, the thin but strong underwater wings lift the boat out of the water and drastically reduce drag. Candela is combining hydrofoils with a very light, all-carbon boat hull and so achieves an energy consumption that is stunningly 25% of a traditional motorboat.

The most efficient hydrofoils are fully submerged and require a control system. The team around Candela has solved this by combining a range of redundant sensors. Through this, a stable but yet sporty behaviour is achieved.

The team behind Candela consists of some of Europe's leading designer and engineers from France, Denmark, Germany, Holland and Sweden. The designer of the hydrofoils Hugues de Turckheim is among other things, one of the engineers behind the world's fastest sailboat – L'Hydroptère. Bo Zolland, the chief designer has designed race cars for Daimler Chrysler and helped the iconic boat brand Glastron with a complete redesign. Olivier Philippot has gained extensive experience in carbon fibre structure engineering from Eurocopter, Airbus and the French defence.

The first boat will be a 7,5 meter bow rider with a range of >60 NM (110 km) in 25 knots (46 km/h). Launch is scheduled for spring 2017. Read more at candelaspeedboat.com, or contact:



Gustav Hasselskog
gustav@candelaspeedboat.com
+46 70 513 65 89