



## HYBRID ECO - TENDER

### VESSEL DETAILS

<b>Owner</b>	Private - ITALY
<b>Year Built</b>	2018
<b>Length (LOA)</b>	25.50m - 83.60ft
<b>Beam</b>	5.80m - 19.0ft
<b>Construction</b>	Aluminium
<b>Ship Designer</b>	Perini Navi SPA
<b>Shipyard</b>	Perini Navi SPA
<b>Engines</b>	Diesel 1213kW @ 2300rpm e-Motors 150kW
<b>Class</b>	n/a

### HAMILTONJET SUPPLY

<b>Propulsion</b>	2 x HM571 waterjets
<b>Control System</b>	MECS propulsion control system
<b>Hybrid System</b>	Integration support with Siemens Hybrid system

### PARALLEL HYBRID SYSTEM

The hybrid propulsion system developed by Siemens provides four operational modes for maximum flexibility.

- Diesel Mode - twin MAN diesel engines power two Hamilton HM571 waterjets.
- Hybrid mode - one engine drives its neighbouring waterjet and also serves as a generator for an e-motor to power the other waterjet.
- Diesel-electric Mode - a generator supplies electricity for two Siemens 150kW e-motors to drive the waterjets.

Zero-emission Mode - for completely silent and emissions-free manoeuvring or limited cruising, a battery bank can power both waterjets/e-motors at around 8 knots for up to an hour. In this mode the tender will cruise at low speed in marine parks or other environmentally sensitive areas with no emissions and no noise - sound levels are below 55dB throughout.