

# Solar Sailor **BayTri**

**600**  
PAX



**Harbour & bay transport, luxury cruises**

**solarsailor**  
green ferries for blue highways

# With 3 hulls, 6 propellers, one wing, hybrid drive & zero emission mode, the BayTri is an unparalleled marine experience

Equipped to carry up to 600 people, the Solar Sailor BayTri is perfect for bay transport & luxurious leisure cruises.

Sit back, relax and enjoy a smooth, quiet ride. With low noise, vibrations & emissions, the vessel is powered by nature's two most abundant forces, the sun and the wind.

Using revolutionary hybrid marine power technology, it maximises fuel efficiency, with substantial savings & minimal effect on the environment.

## Luxurious versatility

Perfect for transportation, as well as lunches, dinners, cocktail parties, corporate & marketing presentations

Luxuriously appointed café/bars & dance floor

Multifunctional 'open plan' layout with large screen plasma screen TVs

Optional extras include underwater viewing portholes in centre hull below main deck, ocean going hull capability and space for helipad on back deck

## Superior performance

Using reliable, efficient hybrid marine power, the vessel can have virtually unlimited range.

The striking design features a Solar Wing 15m x 7m, covered both sides with 200 sq m of high efficiency flexicell solar panels. The wing collects enough power in four hours of full sun to run an average western house for 6 days (not including air-conditioning).

The wing is engineered for 40 knots with 300% margin of safety and in winds gusting over 30 knots it folds down over the back deck, reducing windage while still collecting solar energy.

In typical trade winds of 25 knot winds the wing generates 100hp drive = 10 knots boat speed, in 30 knots generates 170 hp drive = 12 knots boat speed.



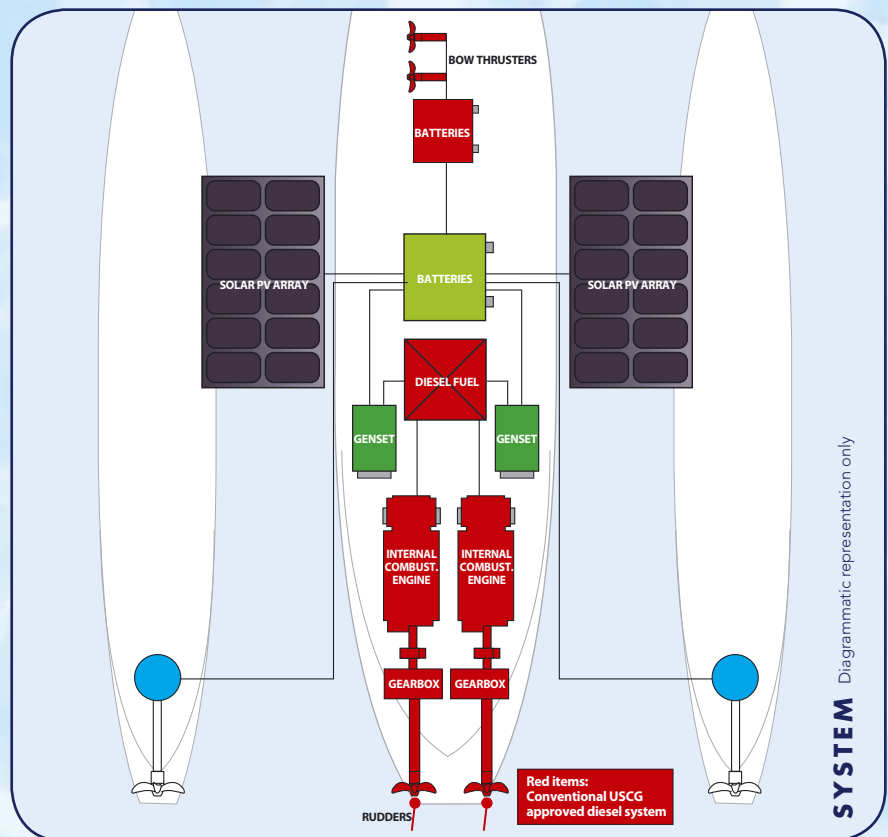
## Reliable power systems

The BayTri trimaran has two entirely separate and independent propulsion systems

The two propulsion systems are not reliant on each other and can be operated independently from each other. The BayTri can be operated safely with only one of the two systems at any one time.

The vessel has 6 propellers – two powered by conventional main diesel engines in centre hull, two electric bow thrusters in centre hull and two electric outrigger motors.

For the rapid transits under most conditions the BayTri will be propelled by the conventional marine diesel drive in the centre hull. For tourism, cruising manoeuvring and docking at the wharf the electric motors in the outriggers and the bow thrusters in the centre hull will be powered by energy stored in batteries, ensuring zero emission. The battery bank is designed to deliver low power over a long time or deliver large power to bow thrusters and outriggers for a short time. The computer will optimise the energy storage in the batteries utilising power from diesel generator and solar at all times.



|                              |  |
|------------------------------|--|
| <b>Length</b>                | 35 meters  |
| <b>Beam</b>                  | 13 meters  |
| <b>Draft</b>                 | 1.8 meters   |
| <b>Power</b>                 | Parallel hybrid/electric drive   |
| <b>Main Engines Speed</b>    | Maximum Speed 15 knots, Cruising Speed 12 knots                                |
| <b>Electric Drive Speed</b>  | Solar 4.5 knots, Battery 5 knots,<br>Solar + Batteries 7 knots, Genset 7 knots |
| <b>Sailing</b>               | 25 knots windspeed gives 8 - 12 knots boatspeed                                |
| <b>Batteries</b>             | Lead Acid Gel  |
| <b>Fuel</b>                  | Diesel / optional Biodiesel or Gas   |
| <b>Fit out</b>               | Suitable for Transport, Cruising, Sightseeing                                  |
| <b>Construction</b>          | Aluminium or composite   |
| <b>Survey Classification</b> | DNV or equivalent  |
| <b>Project Supervision</b>   | Solar Sailor   |

**SPECIFICATIONS**

**Speak to your Solar Sailor Representative today for more information.**