CHARTWELL MARINE

CHARTWELL AMBITIOUS

REFINING THE FORMULA FOR OFFSHORE ENERGY SUPPORT

INTRODUCING

CHARTWELL AMBITIOUS

Available as an eCTV, the Chartwell AMBITIOUS is a pioneering crew transfer vessel (CTV) design that refines the formula for offshore wind support.

Developed off the back of ten years of data and experience in offshore wind vessel design, alongside extensive dialogue and collaboration with CTV operators, wind farm owners and turbine manufacturers, the Chartwell AMBITIOUS responds directly to the needs of the end user.

The vessel hits a ‘sweet spot’ in size and capability that has been achieved by the most effective vessels currently operating in the offshore wind market. It builds on lessons learnt supporting European projects throughout construction and operation, while also meeting new requirements emerging in markets such as the USA and Taiwan.

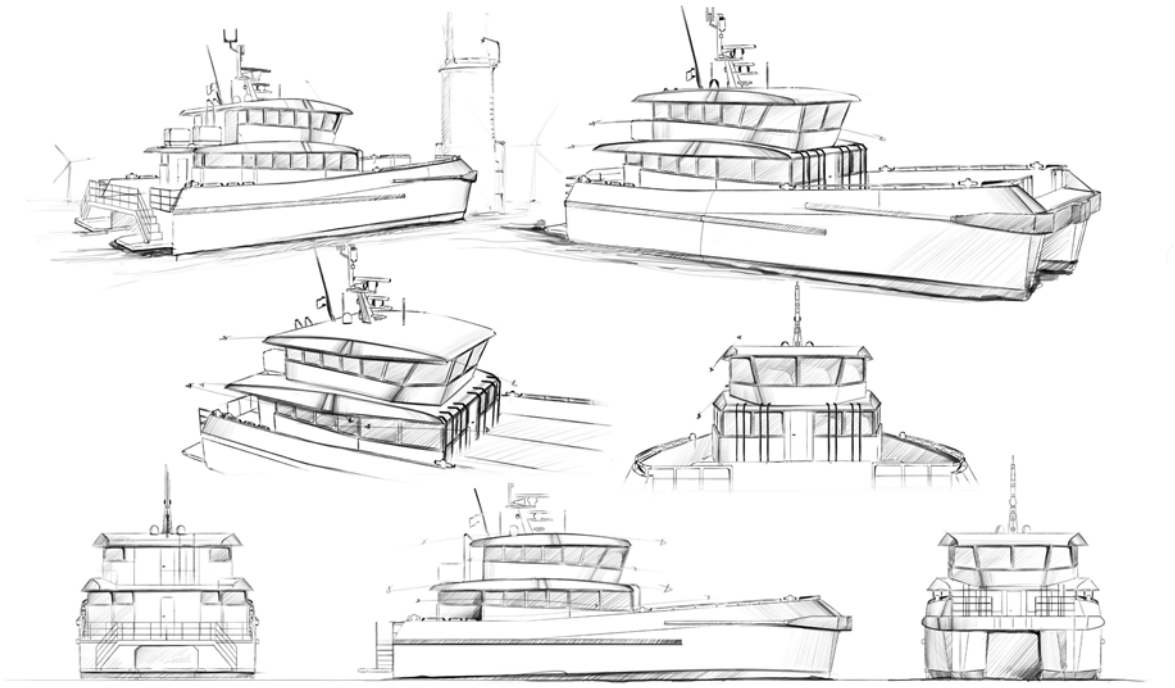
The vessel has been delivered in a range of configurations to suit specific operators requirements including hybrid zero emission and FOSS compatible.

LENGTH

25.2M (82FT)

PROPULSION

- CPP
- IPS
- FPP



FEATURES

BUILT FOR PURPOSE

The Chartwell AMBITIOUS, available as a hybrid ZE (zero emission) notation vessel, has been developed in collaboration with a pool of highly respected vessel operators and their end clients. Its design has been optimized to directly meet the operational demands of servicing offshore wind farms.

SAFETY & WELFARE	AVAILABILITY & PERFORMANCE
Total control and complete visibility for skippers with unique wheelhouse configuration	Perfectly proportioned for offshore wind—hitting the 'sweet spot' of vessel size
No steps or trip hazards	Available as a right whale migration path compliant if required 19.8m— 65ft vessel
Designated walkways, handrails and safety sliding rails positioned for safe, repeatable crew transfers	Accommodates 12 or 24 or 28 industrial personnel and 3-6 onboard crew
Class-leading IMO HSC code compliant reclining seats, local power points, ultimate onboard and tablet connectivity.	70m² foredecks
High levels of operational familiarity for crews and technicians	Displacement vs. installed power provides excellent transit performance, high bollard push and friction holding force
Large wetroom for crews and technician changing	Up to 19T bollard push-on with CPP
Large onboard crewing facility including onboard sleeping facilities	EPA Tier 4 & IMO Tier 3 compliant, with diesel and hybrid propulsion options

> *The Chartwell AMBITIOUS is the vessel the market has been waiting for. It not only responds directly to our needs as a vessel operator, but also ticks all the boxes for our offshore wind farm customers. Ultimately it will help us collectively set new benchmarks for safety, availability and performance.*

TOM NEVIN

MANAGING DIRECTOR,
HIGH SPEED TRANSFERS

TESTNG

VALIDATED PERFORMANCE

The Chartwell AMBITIOUS hull design has been independently validated using the latest computational fluid dynamics (CFD) modelling methods, coupled with thorough 1:12 scale model tank testing. Combined, these processes constitute the most rigorous and scientific testing approach for any offshore wind CTV design to date.

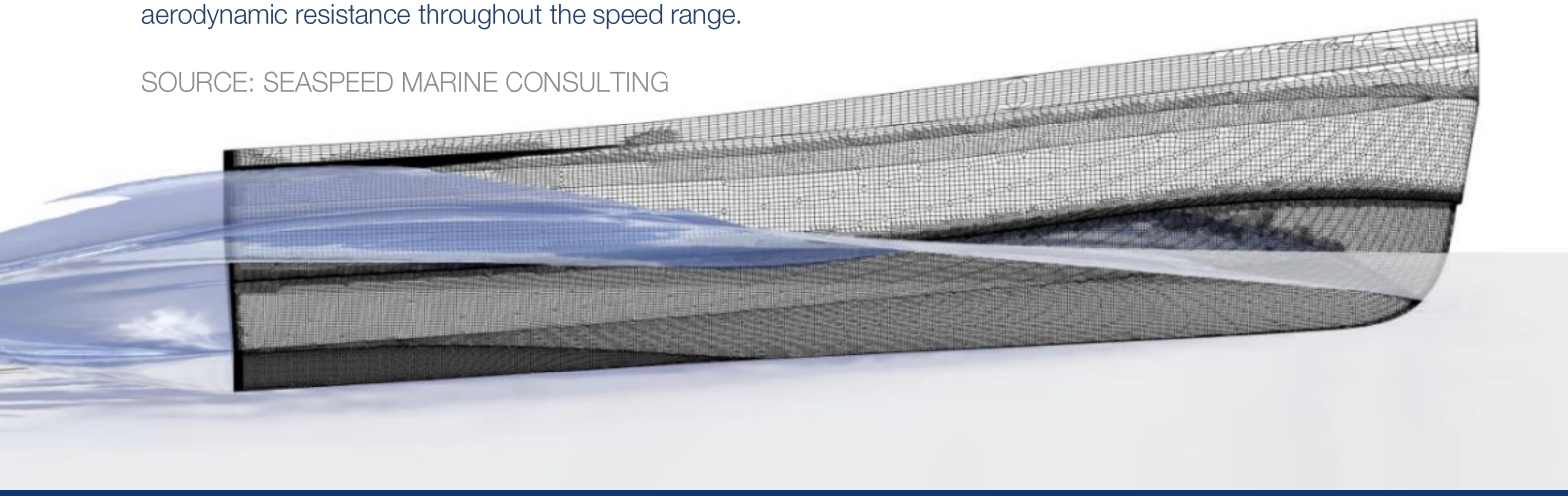
Conducted by Seaspeed Marine Consulting, these tests have confirmed the seakeeping performance, stability and maneuverability of the vessel design.

Scale model seakeeping tests have demonstrated the performance and maneuverability of the vessel in a range of different sea states.

SOURCE: SEASPEED MARINE CONSULTING

Independent CFD testing has provided validation of the Chartwell AMBITIOUS's hydrodynamic and aerodynamic resistance throughout the speed range.

SOURCE: SEASPEED MARINE CONSULTING



"During model testing, the Chartwell AMBITIOUS hull exhibited high standards of seakeeping and maneuverability throughout a wide range of simulated sea states. Importantly, the freeboard and motion of the vessel were such that no wet-deck slamming was noted within the range of tests undertaken. This is a significant operational advantage when compared to competitors craft within the market, which would be limited by slamming occurrence.

STEPHEN PHILLIPS

MANAGING DIRECTOR
SEASPEED MARINE CONSULTING

NEXT-GENERATION

ENGINEERED FOR TOMORROW

The Chartwell AMBITIOUS eCTV is a pioneering crew transfer vessel that refines the formula for offshore wind support. Offering zero emission operations and significant reductions in total fuel consumption.

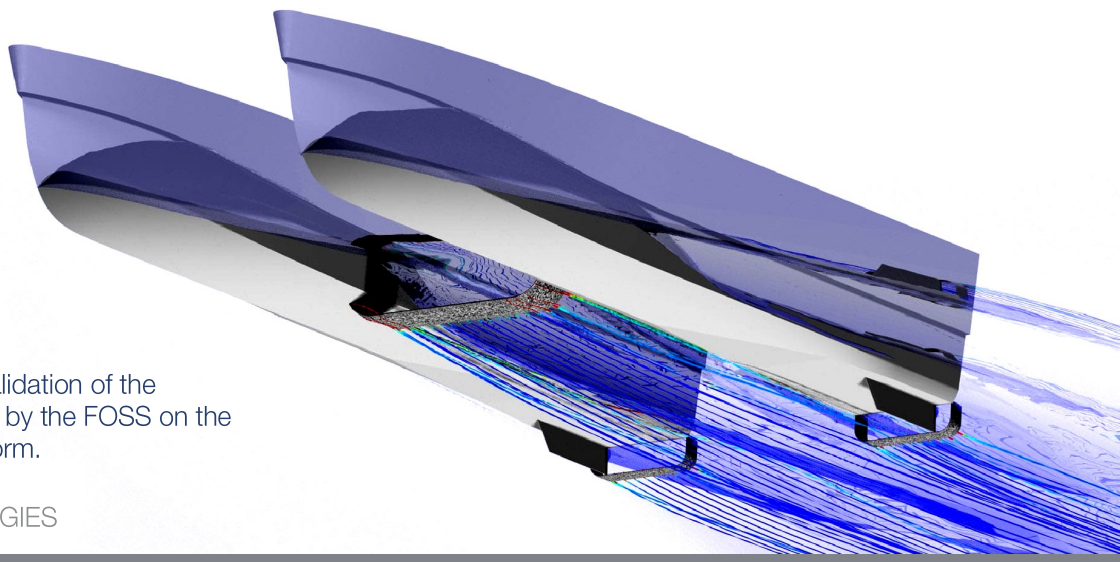
Chartwell AMBITIOUS eCTV System Characteristics:

- Silent (no engine noise) when operating electric only
- Zero emission when operating electric only
- Up to 1000L fuel burn reduction over 12 hours operation
- Up to 2.9T CO2 reduction over 12 hours operation
- Up to 87% reduction in Nox emissions over 12 hours operation (Tier 3)
- Up to an 8-hour reduction in engine use over

CHARTWELL AMBITIOUS eCTV—UPTO 3000kg LESS Co2 EMITTED PER DAY

The Foil Optimisation and Stability System (FOSS) developed in partnership BAR technologies combines the latest in hydrofoil design, simulation and optimization technology with sophisticated AI driven controlled algorithms. Achieving significant fuel saving and superior sea keeping.

The result is an advanced active hydrofoil system which is automatically tunned to minimise resistance and maximise efficiency, as well as responding to sea states to actively dampen vessel acceleration resulting in increased ride comfort by as much as 70% and offering fuel savings of up to 20%.



CFD testing has provided validation of the performance gains provided by the FOSS on the Chartwell AMBITIOUS hull form.

SOURCE: BAR TECHNOLOGIES

ABOUT

CHARTWELL MARINE

Chartwell Marine is a pioneer in next-generation vessel design. A reputed naval architect with an industry-leading track record designing award-winning high-speed vessels, Chartwell Marine supports ambitious boat builders and vessel operators around the world with specialist, independent design and consultancy services.

CONTACT US

To find out more about Chartwell Marine, please visit:

http://www.chartwellmarine.com

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