CHARTWELL
MARINE

CHARTWELL BREVITY

REFINING THE FORMULA FOR OFFSHORE ENERGY SUPPORT

INTRODUCING

CHARTWELL BREVITY

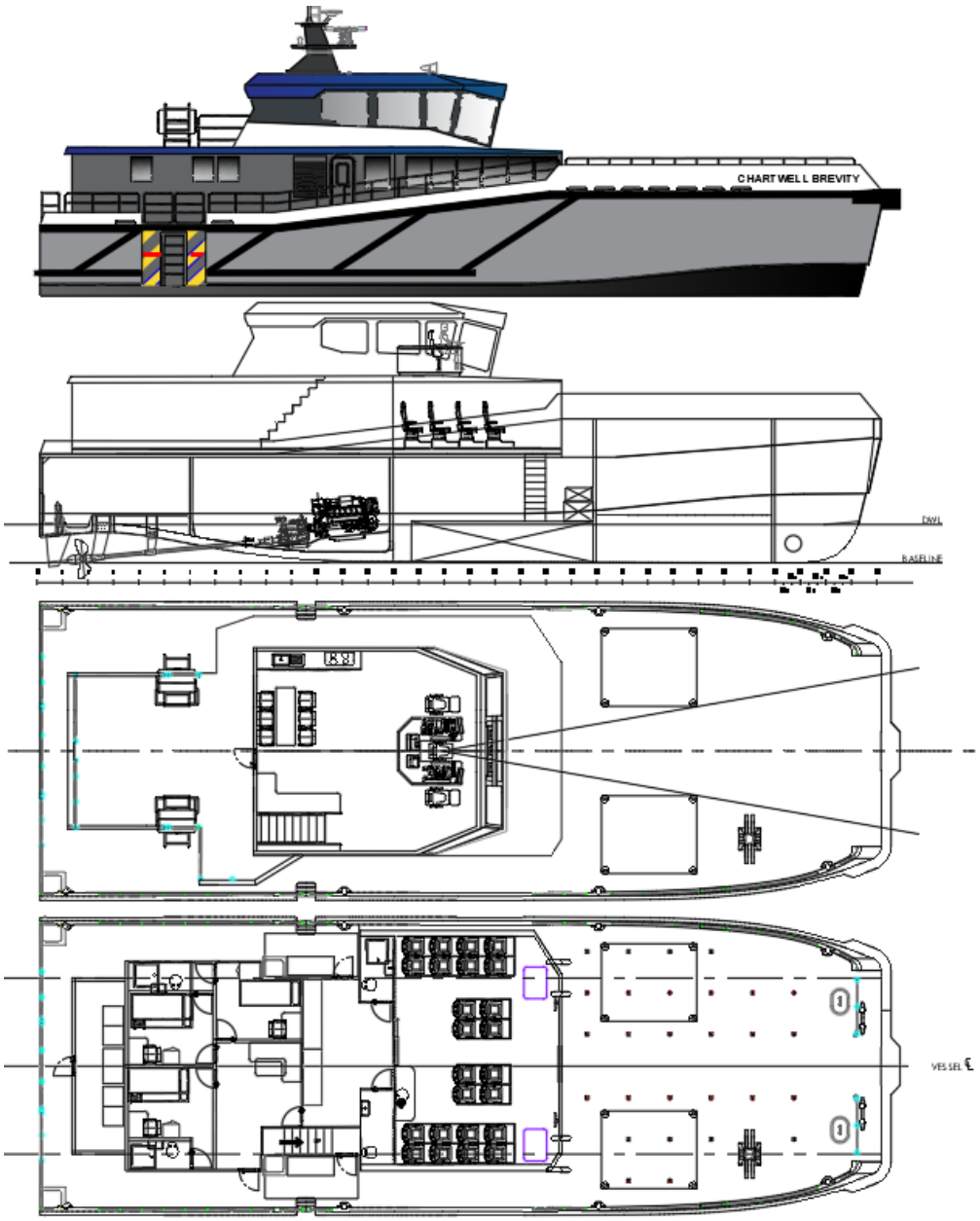
The Chartwell BREVITY is a pioneering crew transfer vessel (CTV) design that refines the formula for offshore wind support.

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 BREVITY responds directly to the needs of the end user.

The vessel is sized to be capable and effective in the challenging conditions in the ever growing offshore wind market. Surpassing the 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 can be delivered in a range of configurations to suit specific operators requirements including hybrid zero emission.

LENGTH	27.8M (91FT)
BEAM	9.4M (31FT)
PROPULSION	CPP/FPP/IPS/WJ
MAX SPEED	30kts
e-SPEED	12kts
NO. OF TECHS	32



FEATURES

BUILT FOR PURPOSE

The Chartwell BREVITY, 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 optimised 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. Sized to handle the growing demands of offshore wind
No steps or trip hazards	Class leading wetdeck clearance and bow fender height
Designated walkways, handrails and safety sliding rails positioned for safe, repeatable crew transfers	Accommodates up to 32 industrial personnel and 3-6 onboard crew
Class-leading IMO HSC code compliant reclining seats, local power points for maximum technician comfort	Large foredeck space provision for 20ft and 10ft containers
High levels of operational familiarity for crews and technicians	Displacement vs. installed power provides excellent transit performance, high bollard push and resultant friction holding force
Large wetroom for crew and technician changing	Available in multiple propulsion and energy storage configurations.
Large onboard crewing facility including onboard sleeping facilities	EPA Tier 4 & IMO Tier 3 compliant, with diesel and hybrid propulsion options

> *The Chartwell BREVITY 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.*
>
> *OEG RENEWABLES*

TESTNG

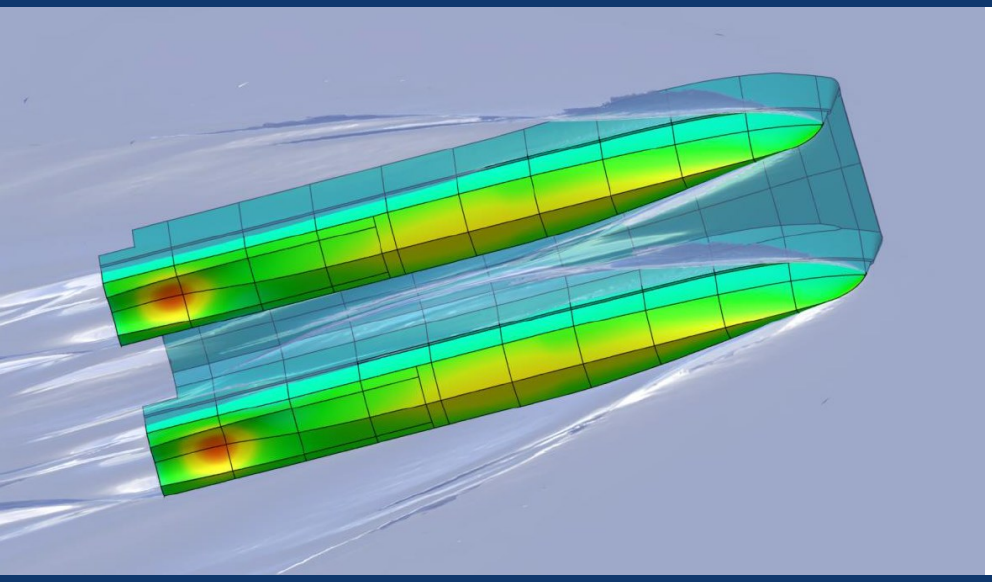
VALIDATED PERFORMANCE

The Chartwell CTV hull design has been independently validated using the latest computational fluid dynamics (CFD) modelling methods, coupled with thorough 1:12 scale free running 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 hydrodynamic and aerodynamic resistance throughout the speed range.

"During model testing, the Chartwell 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 other craft with lower freeboard, which would be limited by slamming occurrence.

STEPHEN PHILLIPS

MANAGING DIRECTOR,

SEASPEED MARINE CONSULTING

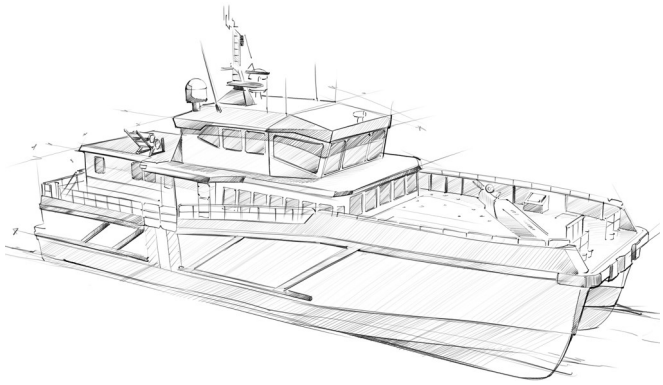
NEXT-GENERATION

ENGINEERED FOR TOMORROW

The Chartwell BREVITY 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.

Silent (no engine noise) when operating electric only.

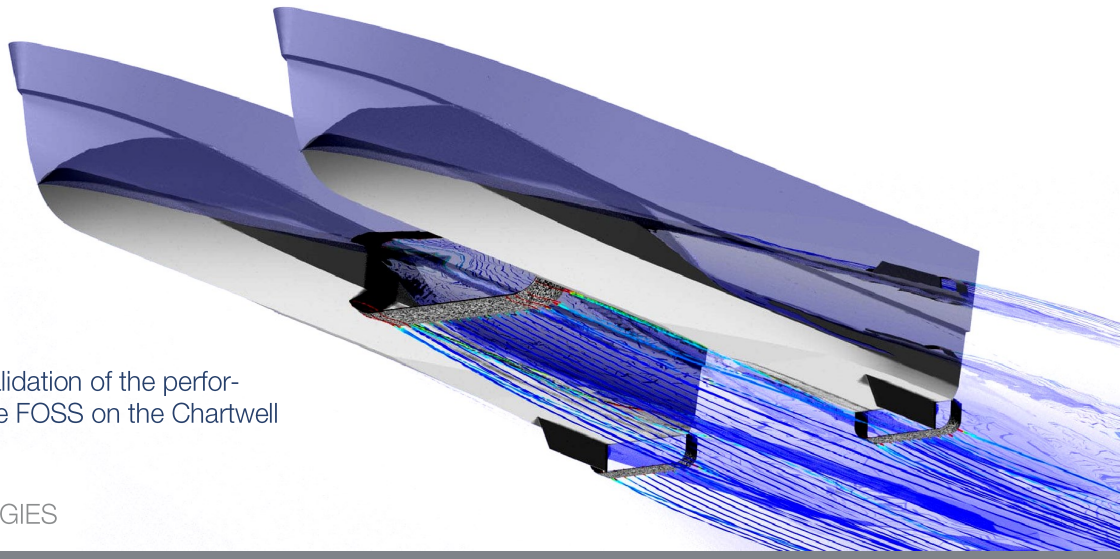
- Zero emission when operating electric only
- Up to 1000L fuel burn reduction over 12 hours operation
- Up to 2.9T CO2 reduction over 12 hours operation
- Up to 87% reduction in Nox emissions over 12 hours operation (Tier 3)
- Up to an 8-hour reduction in engine use over 12 hours operation



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

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

The result is an advanced active hydrofoils system which is automatically tuned 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 CTV 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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