Introduction

The iWave Sea State Monitor is a Vessel Motion Monitoring System (VMMS) that provides GO / NO-GO decision support for CTV & SOV Operations

Safer Transfers. Measured Decisions. Reduced Risk.

Safety at sea can never be understated and personnel transfer remains one of the highest-risk activities in offshore wind operations. Our Vessel Motion Monitoring System provides real-time, objective motion data to support safe transfer decisions from *Crew Transfer Vessels (CTVs)* and *Service Operation Vessels (SOVs)*.

Designed specifically for offshore wind environments and based on guidelines from *International Maritime Organization (IMO)* operational safety principles, *G+ Global Offshore Wind Health & Safety Organisation (G+)* recommendations for controlled personnel transfer and *Project-specific* marine coordination and transfer procedures

The iWave / Verif-i Sea State Monitor replaces subjective judgement with measurable, auditable motion criteria.

Built for CTV Operations

CTVs operating in push-on transfers experience rapid and dynamic motion responses. The system continuously measures accelerations, roll, pitch and heave using a marine-grade IMU sensor to determine the power of the vessel movement.

Motion power indicators

These values are compared in real time against predefined operational limits to provide a clear GO / NOGO status for transfer. This enables the Master and Marine Coordinator to make informed, consistent decisions based on measured vessel behaviour rather than visual estimation alone.

	Speed	Date	UTC	Data Age	Age Bar
3.6°	0.2 kts	26 Nov 25	10:30:07	0.0 s	

Seastate

Heave	Heave Period	Pitch	Roll	Yaw	Power	Power Threshold	Threshold Set
0.1m	4.8s	4.9°	3.6°	-114.2°	0.367		0.2

Transfer Procedure
ACTIVE

Transfer HOLD

Key Benefits for Offshore Wind Operators

The system delivers measurable improvements in transfer safety margins by replacing subjective judgement with objective, real-time motion data.

By applying consistent GO / NO-GO criteria across vessels and fleets, it promotes standardised decision-making and strengthens marine coordination.

Integrated data logging provides transparent operational documentation to support the audit and review processes.

Together, these capabilities increase confidence when operating in marginal weather windows, enabling safer, more controlled personnel transfers throughout offshore wind operations.

iWave Benefits

- Bringing peace of mind for the technician – no more ambiguous decision making
- Robust HSE tool.
- Records conditions on every transfer.
- Provides a greater overview of site accessibility.
- Reduces commercial pressure at site level and beyond.
- Improves accessibility by eliminating uncertainty.

System Functionality

- Compact marine-rated IMU sensor
- Bridge touchscreen display showing real time motion graphs
- Deck-visible GO / NOGO status indicator
- RMS and velocity-based motion assessment
- Vessel motion measured at the point of (dis)embarkation
- Configurable project and vessel-specific motion limits
- Data logging, replay and export capability

Further Information

A Verif-i SG Ltd. and iWave Systems partnership.

If you would like any further information on our *iWave Sea State Monitor*, please scan the QR Code or contact us using the details below.