

# WÄRTSILÄ 4-STROKE ENGINE POWER LIMITATION – ENSURE COMPLIANCE WITH EEXI





By December 2023 all existing merchant, cruise and ferry vessels must comply with the requirements of the IMO's Energy Efficiency Existing Ship Index (EEXI), which defines a minimum energy efficiency level for vessels. Wärtsilä has developed an engine power limitation upgrade package that will enable compliance with the new requirements. The upgrade is applicable for vessels that have a single main engine per shaft line and a fixed pitch propeller without a PTO/PTI system

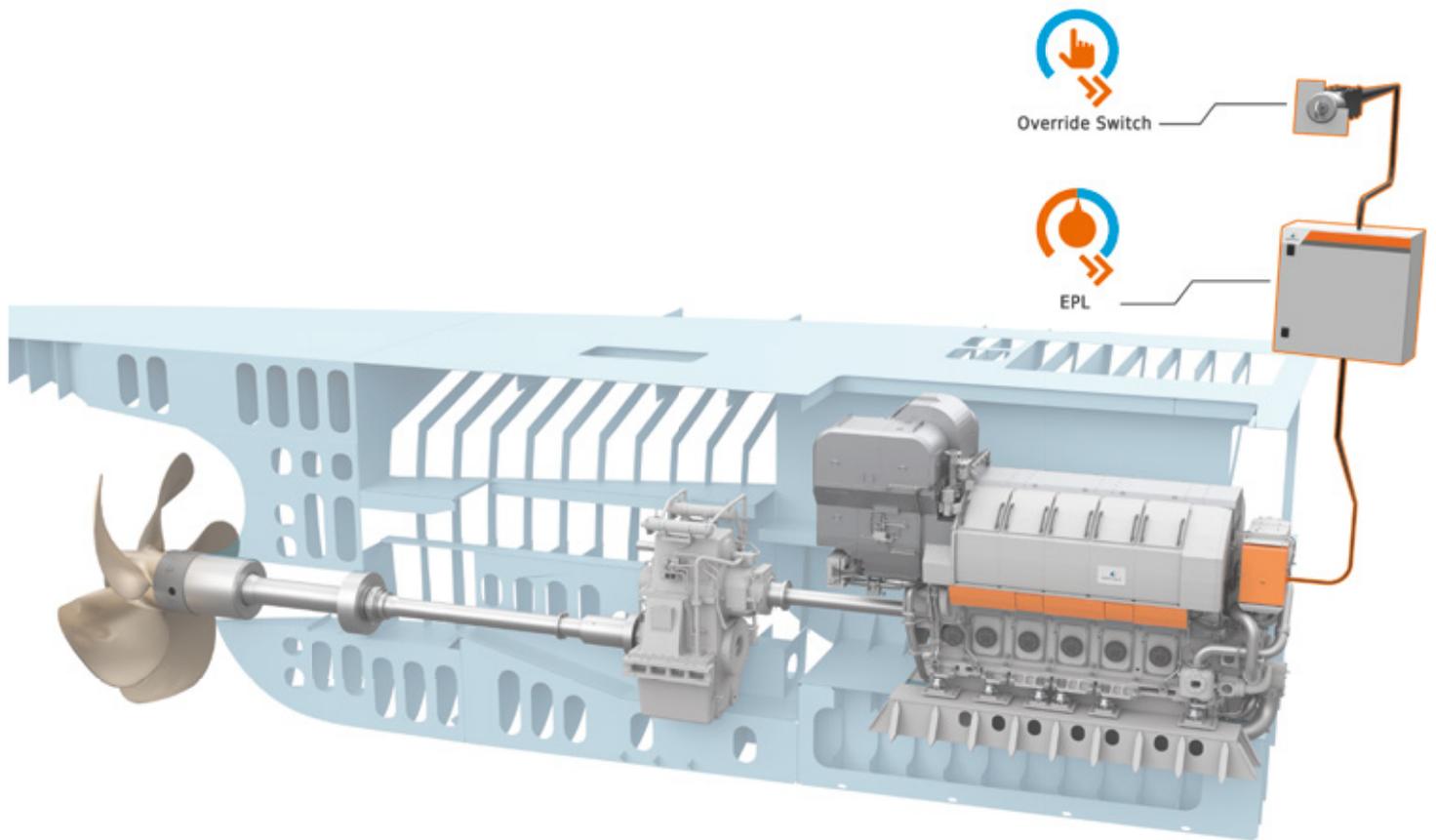
#### **About engine power limitation systems**

An overridable engine power limitation (EPL) system is a verified and approved system that limits the maximum engine power output during normal operation. The set limit can only be overridden by the ship's master or officer of the watch for the purpose of securing the safety of a ship or saving life at sea.

The speed/load controller measures the instantaneous power delivered by the engine, while a software upgrade limits the actuator position when the power reaches the EPL set point. This ensures stability and maximises maneuverability. The system can be overridden with a switch on the bridge.

#### **KEY BENEFITS**

- Ensure compliance with EEXI requirements
- A standardised and cost-effective solution
- Integrate with existing Wärtsilä 4-stroke engines



Wärtsilä 4-stroke Engine Power Limitation is a complete upgrade package for vessels with a single main engine per shaft line and a fixed pitch propeller without a PTO/PTI system. The fully integrated solution can be installed as an add-on to Wärtsilä 4-stroke engines. System data is stored in accordance with the requirements of the ISO 19030 standard for performance monitoring. Wärtsilä 4-stroke Engine Power Limitation has been designed in collaboration with one of the major classification societies to ensure a smooth approval process.

#### Scope of supply

- Control cabinet with data collection and storage functionality
- Override switch for bridge
- EPL documentation
- Class plan approval during project execution

#### Why choose Wärtsilä?

Wärtsilä is a leading OEM supplier to the marine industry with a global network providing service and support. Wärtsilä supports its customers throughout the entire lifecycle of the supplied equipment, and we strive to maximise the useable life of our customers' equipment investments.

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