

MAN

Overridable Power Limitation Engine

MAN PrimeServ

MAN OPL Engine is a retrofit solution designed to lower the energy efficiency index for existing ships (EEXI) by limiting the engine power of the existing fleet to comply with IMO resolution MEPC 335 (76) adopted on 17 June 2021.

Based on global measures to reduce greenhouse gas (GHG) emissions from shipping, new amendments were introduced at the International Maritime Organization's (IMO's) MARPOL convention in June 2021.

The amendments include new energy efficiency provisions – the EEXI energy efficiency existing ships index and the carbon intensity indicator (CII).

Vessels affected must attain EEXI approval by the first periodical survey in 2023 - at the latest.

Among others, the ship type, and ship capacity determine the EEXI value required.

The EEXI value must be calculated individually for each vessel affected by the regulation. The outcome provides the power limitation necessary to fulfill the EEXI requirements.

The overridable power limitation (OPL) is implemented in a modified PLC-based interface between the engine control and the propulsion control systems.

The OPL function is controlled from the main bridge using a control knob connected via a spare cable.

Installing the EEXI compliant system requires a MAN Energy Solutions superintendent engineer with holistic knowledge of the engine and propulsion control systems. The MAN OPL Engine solution therefore includes superintendent assistance for installing, commissioning and testing the new EEXI compliant system.



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Key benefits

- Soft limitation, no physical blocking of the engine's fuel rack
- PTO operation not affected because the limitation is on the propulsion side, not on the speed governor side
- Easy installation between the engine control system and the propulsion control system
- OPL should be activated or overridden directly from the main bridge

Scope of supply

- EEXI compliant system
- Control for activating or overriding OPL
- Onboard management manual (OMM)
- MAN PrimeServ superintendent for installation, commissioning and testing

Applicability

All MAN four-stroke medium speed engines with diesel-mechanic propulsion plant coupled to a controllable pitch propeller (CPP) using a propulsion control system that is not of the Alphatronic type.

More information

Would you like to know more about the product and how our upgrade solutions can improve your propulsion configuration? Then do not hesitate to contact your local MAN PrimeServ office to receive more information about the upgrade.

Retrofit & Upgrades

Propulsion Retrofit
P + 49 322 1000
retrofit4s@man-es.com

More information

Would you like to know more about the product, and how the upgrade can improve your specific engine? Then do not hesitate to contact your local MAN PrimeServ office to receive more information about the upgrade!

MAN Energy Solutions

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