

## MARPOL Annex VI – Prevention of air pollution from ships

The New Zealand Government will become party to Annex VI of the International Convention for the Prevention of Pollution from Ships (MARPOL) by late 2021.

MARPOL Annex VI seeks to address:

- the impact of air pollution from shipping activities on human health and environments, and
- the impacts of emissions from shipping activities on climate change and ozone layer depletion.

There are eight key regulations relating to emission controls.

### Energy efficiency overview

#### What is energy efficiency?

The way ships are designed and operated determines how much energy is used for a particular voyage or for on-board activities. The less energy used for a particular voyage or on-board activity, the more energy efficient the ship will be. This saves money and reduces emissions of pollutants and greenhouse gases, both of which contribute to climate change.

#### Which ships does this apply to?

The EEDI, SEEMP and IEEC requirements apply to a range of ships of 400 GT or more.

Fuel oil consumption reporting requirements apply to ships of 5000 GT or more.

See table on next page.

These requirements apply to ships which travel internationally. New Zealand must ensure that ships that travel domestically comply with the requirements as far as practicable. Maritime NZ is considering how to do this.

#### What does Annex VI require?

There are three requirements:

- 1 Energy Efficiency Design Index (EEDI) – a calculated number that estimates the energy efficiency performance based on the design of a ship. It must exceed the required EEDI in Annex VI for that ship type and size. Over time the EEDI in Annex VI gets more stringent.
- 2 Ship energy efficiency management plan (SEEMP) and an International Energy Efficiency Certificate (IEEC) – SEEMP is an operational plan for maintaining and improving the energy efficiency of a ship. An IEEC is issued at a survey.
- 3 Annual ship fuel oil consumption reporting – recording and reporting on fuel oil usage.

#### More detail on ships this applies to

The table on the next page shows to which ships the energy efficiency requirements apply.

#### Where can I get more info?

Search for “energy efficiency” on the IMO website.  
[www.imo.govt.nz](http://www.imo.govt.nz)

#### What do you think?

- What impact will meeting the requirements have on your operation?
- What concerns do you have about meeting the requirements?
- What else you need to know?

#### What are your views?

If the energy efficiency requirements were extended to include ships that only travel domestically, what implications would there be for your operation?

Is energy efficiency part of your management or operational practice now?

#### Contact us

You can contact us with any comments or questions at [MARPOLAnnexVIProject@maritimenz.govt.nz](mailto:MARPOLAnnexVIProject@maritimenz.govt.nz)

Refer to the Maritime NZ website for further information: [www.maritimenz.govt.nz/marpol](http://www.maritimenz.govt.nz/marpol)  
 Refer to the IMO website for information about Annex VI: [www.imo.org](http://www.imo.org)

### What ships energy efficiency requirements apply to

#### Ships ≥ 400 GT with mechanical propulsion that travel outside NZ waters, but not platforms or icebreakers

	EEDI	SEEMP and IEEC	Fuel oil consumption reporting
All ships		X	
<ul style="list-style-type: none"> <li>New ships</li> <li>major conversions of new ships</li> <li>a range of existing and new ships with extensive major modifications that are regarded by Maritime NZ as a newly-constructed ship</li> </ul>	X	X	
New ships ≥ 5000 GT (as defined above)	X	X	X
Other ships ≥ 5000 GT		X	X

#### Ships ≥ 400 GT with non-conventional propulsion that travel outside NZ waters

	EEDI	SEEMP and IEEC	Fuel oil consumption reporting
Cruise ships or CNG carriers < 5000 GT delivered on or after 1/09/2019	X	X	
Cruise ships or LNG carriers ≥ 5000 GT delivered on or after 1/09/2019	X	X	X

#### Ice breakers ≥ 400 GT with mechanical propulsion that travel outside NZ waters

	EEDI	SEEMP and IEEC	Fuel oil consumption reporting
Icebreakers < 5000 GT		X	
Icebreakers ≥ 5000 GT		X	X