HEADUP services

Connected ports, a decarbonized future:

"The obligation of clean shore power for a greener 2030"

The regulation that establishes the obligation for European ports to provide onshore power supply (OPS) for certain types of vessels and power levels comes from the FuelEU Maritime Regulation and other elements of the European Union's Fit for 55 package. However, the specific requirement to provide 30 MW is not explicitly defined in a single regulation, but could instead be derived from:

FuelEU Maritime Regulation (2023/957):	Alternative Fuels Infrastructure Directive (AFIR):	National targets and specific interpretations:
1.It requires ships to use OPS (Onshore Power Supply) systems when in port, in particular for large vessels such as cruise ships, container ships and ferries, from 2030.	1.It requires Member States to ensure that trans-European ports (in the TEN-T network) install OPS infrastructure to reduce emissions from ships in inland ports.	Some countries, such as Spain, are already adapting their ports to meet these objectives.
1.This regulation requires ports to provide adequate infrastructure to meet this obligation, although it does not specify a minimum power requirement; requirements will depend on the types of ships operating in each port.	1.Ports must offer a level of capacity in 2025 that meets the estimated energy needs of the ships that frequent their facilities.	

AD HOC PROJECTS DIMENSIONED TO THE ENERGY NEEDS OF EACH PORT

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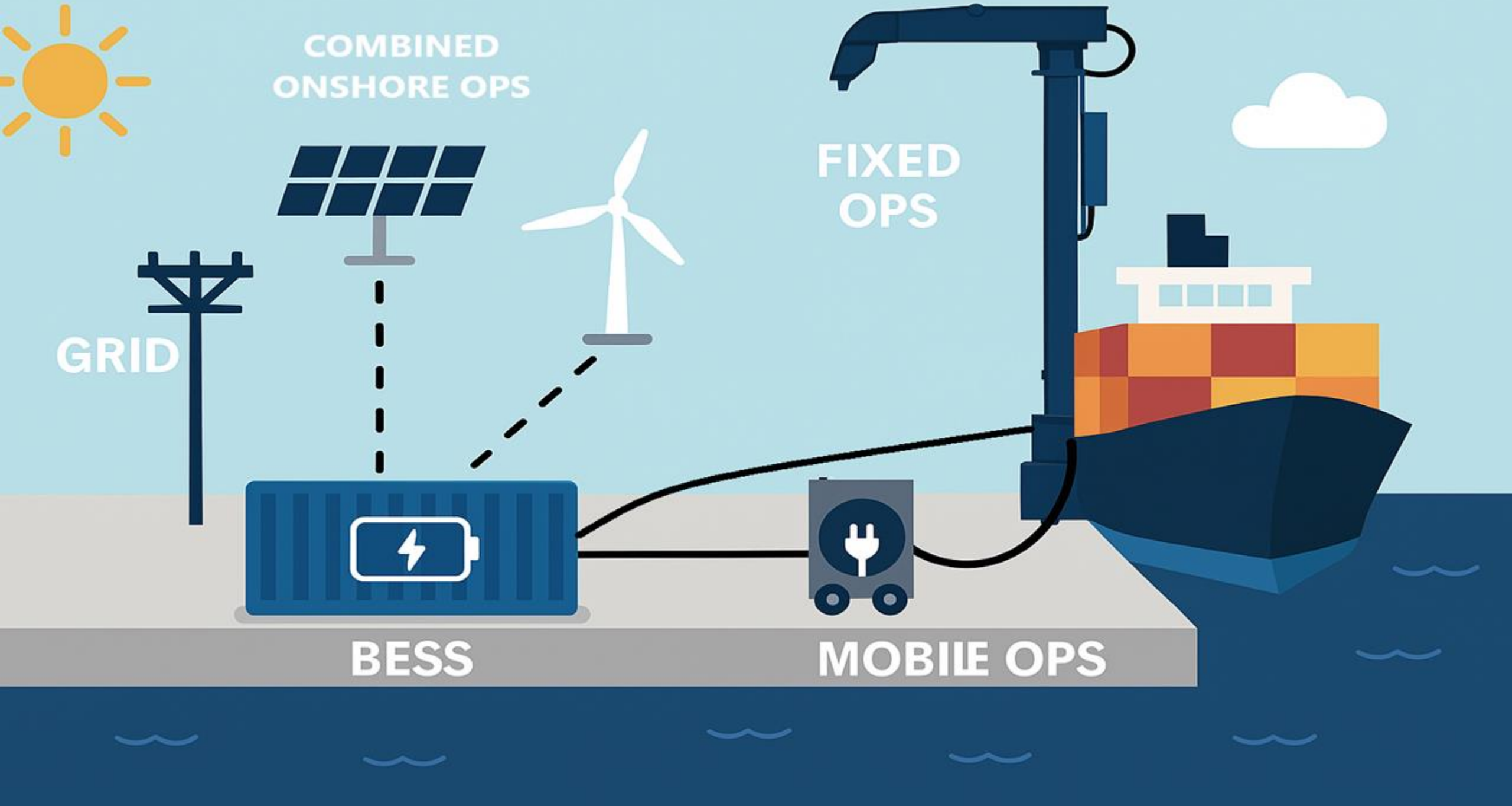
CONSUMPTION COMPARISON OF VESSELS MOORED IN PORT

In the following, the consumption of different types of ships in port is analysed in relation to the availability of energy.

This analysis includes cruise ships, container ships, Ro-Ro or general cargo ships, and medium-sized ferries.

Vessel Consumption Comparison

Type of Vessel	Consumption per Vessel (MW)	Maximum Number of Simultaneous Vessels with 30 MW
Large Cruise	16 MW	1 (and a remaining unusable 14 MW)
Medium Container Carrier	5 MW	6 (30 MW / 5 MW = 6 vessels)
Ro-Ro or General Cargo Ship	3 MW	10 (30 MW / 3 MW = 10 vessels)
Medium Ferry	4 MW	7 (30 MW / 4 MW = 7 vessels, with 2 MW to spare)


COMBINED
ONSHORE OPS
FIXED
OPS
GRID
BESS
MOBILE OPS