



Shipping energy routes and the growing role of ports as energy hubs

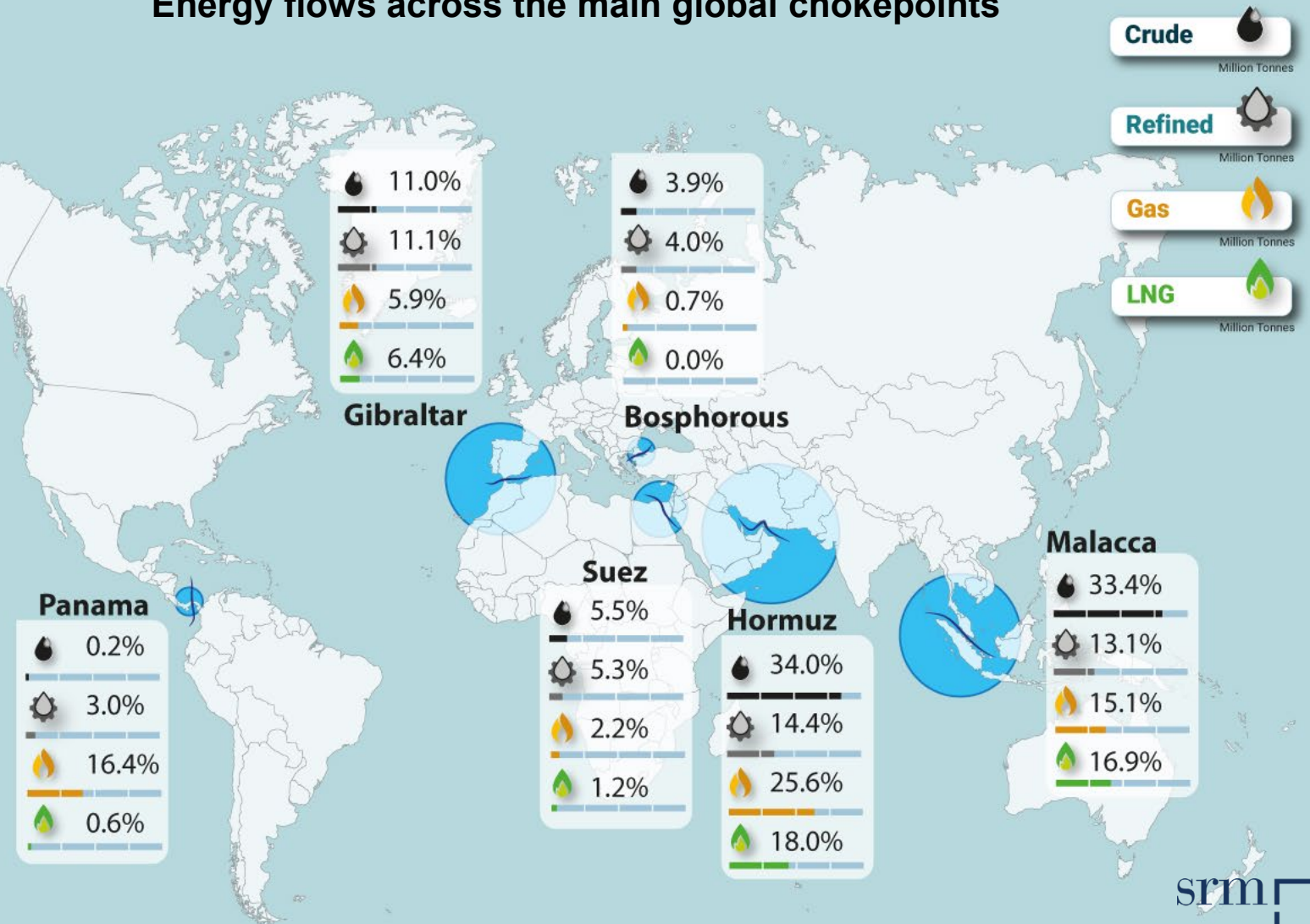
Alessandro Panaro
Head of Maritime & Energy, SRM

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An overview on chokepoints as key passages for global energy trade

- The **Strait of Hormuz** is particularly important for energy, with **27% of the global oil and gas trade**.
- About **33.5% of crude oil trade passes through the Strait of Malacca**.
- Strategically linking Europe and Asia, **the Suez Canal represents one of the most critical sea routes for global trade**. The Canal's location makes it a key regional hub for the transport of crude, oil and gas which fell from 10% of oil products and 8% of LNG maritime flows before the crisis to 5% of total oil trade and 1.2% of LNG currently.
- Due to Houthi attacks, maritime trade flows through the Red Sea have decreased dramatically: **LNG carrier transits through the Suez Canal decreased by 90%**; **oil tanker transits are down by 40-50%**.

Energy flows across the main global chokepoints



Source: SRM on Alphatanker

Energy flows across **HORMUZ** - Maritime energy routes by country of origin and destination. Top 3 exporters and top 3 importers (Million Tonnes)



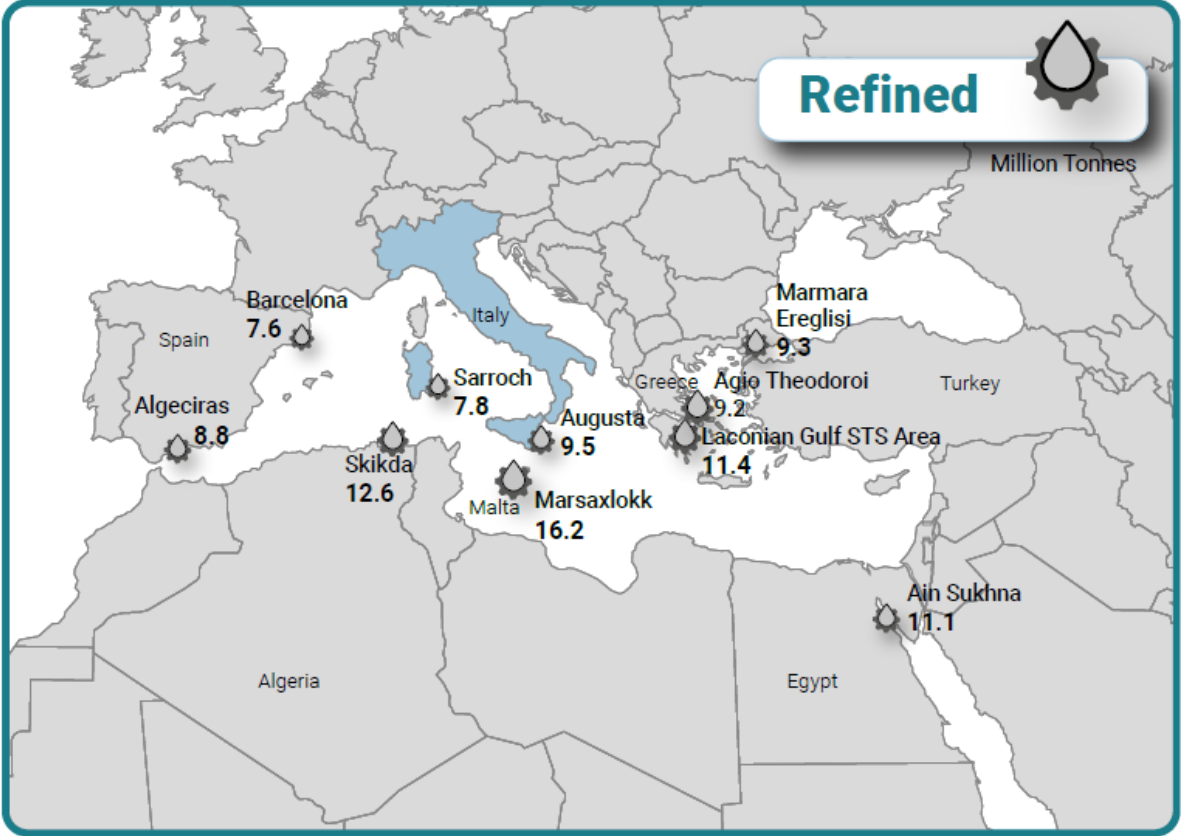
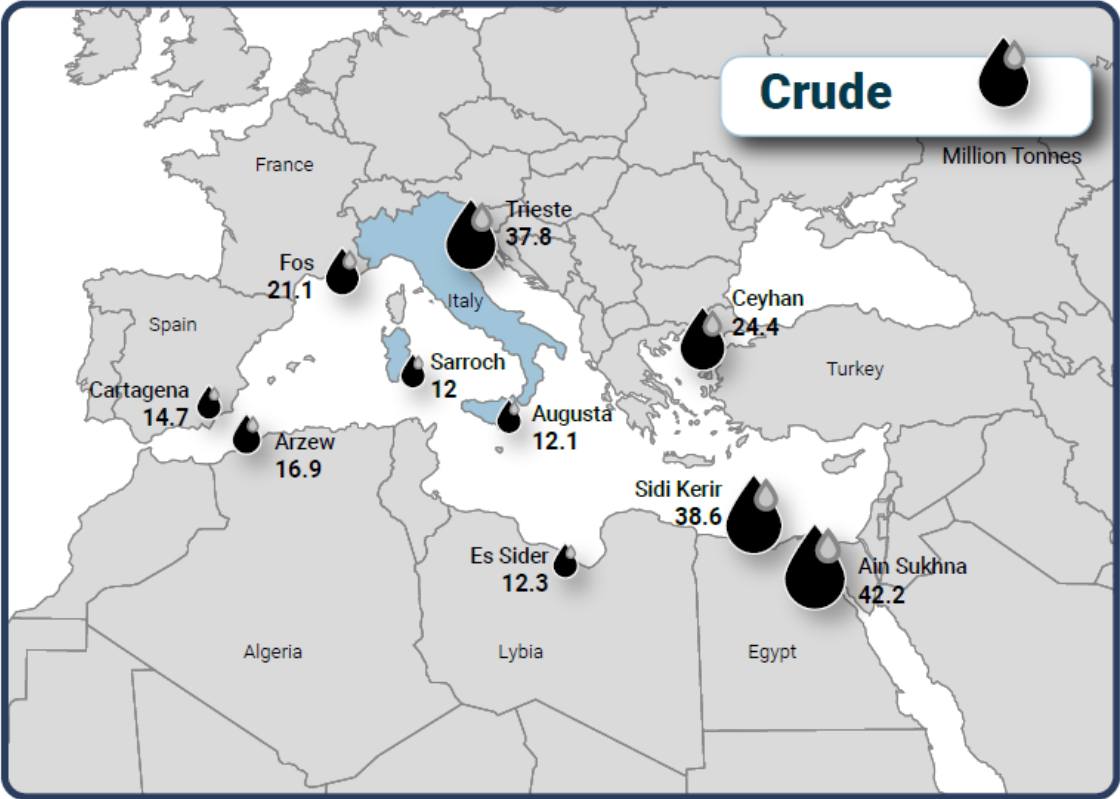
Figure 3 | Source: SRM on Alphatanker

Energy flows across **SUEZ** - Maritime energy routes by country of origin and destination. Top 3 exporters and top 3 importers (Million Tonnes)



Figure 4 | Source: SRM on Alphatanker

Location and tonnage handled in the first 11 months of 2024



Top 10 Italian Energy Ports (Throughput – Mton)

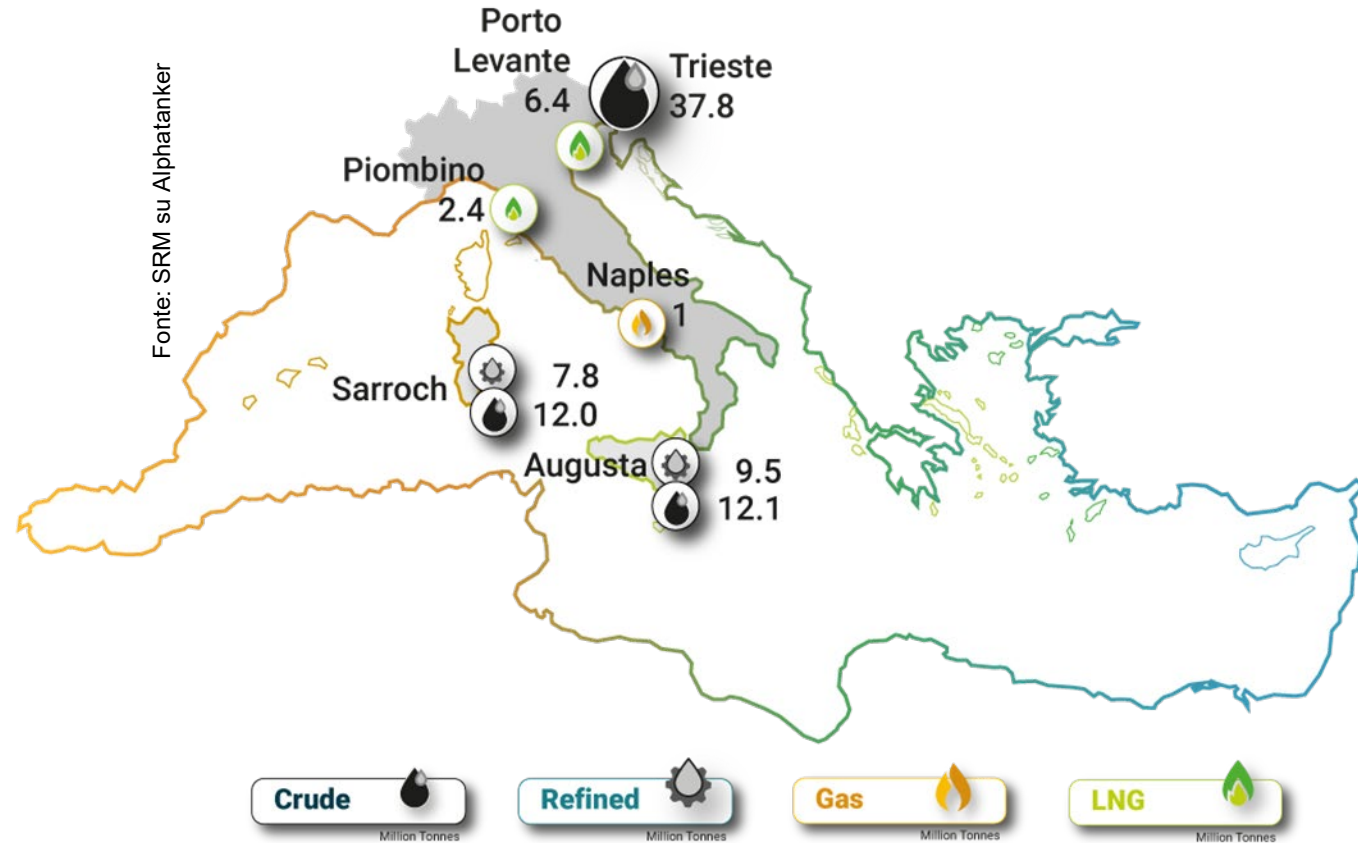
	Crude			Refined	
1	Trieste	37.82	1	Augusta	9.49
2	Augusta	12.09	2	Sarroch (Porto Foxi)	7.79
3	Sarroch (Porto Foxi)	12.04	3	Santa Panagia Bay (Siracusa)	4.89
4	Milazzo	8.86	4	Fiumicino	3.15
5	Genoa	7.35	5	Genoa	2.08
6	Santa Panagia Bay (Siracusa)	5.97	6	Naples	1.98
7	Vado Ligure	5.55	7	Milazzo	1.72
8	Ancona	2.24	8	Porto San Leonardo (Venice)	1.64
9	Taranto	1.51	9	Marghera (Venice)	1.46
10	Porto San Leonardo (Venice)	0.38	10	Civitavecchia	1.10

Table 1 | Source: Alphatanker

Italy at the forefront of the development of a new port model as energy hub








Italian ports play an important role, especially in the trade of oil products and petrochemicals.

- **Ports are entrance points for oil & gas pipelines:** energy flows from North Africa and the Caspian area to Europe. **74% of the gas imported in Italy via pipeline arrives in the South of Italy.**
- The **energy sector** accounts for **35% of the total cargo handled by Italian ports** (slightly less than 170 million tonnes in 2024).
- **The top 5 Italian energy ports** (Trieste, Cagliari, Augusta, Milazzo, and Genoa) account for **almost 70% of the traffic.**
- **Trieste** (38 million tonnes of oil) is an **energy strategic hub** for Austria, Hungary and Bavaria.
- **Southern Italy**, handling **approximately 50% of the country's total port traffic**, plays a **key role in the transition to a "green" energy future.**



2 The Green Port and Green Shipping model

A new port focusing on:

Modal shift 	Resilient docks to climate change 	Cold Ironing 
Renewables Energy Efficiency 	Digitalization 	Reduction of CO₂ emissions Alternative fuels 
Attraction of sustainable investments SEZ/SLZs 		



2 Alternative fuels: the new challenge for shipping

Shipowner investments in the future fleet, fuels and onboard green technologies play an important role in shaping the global shipping fleet's emission profile



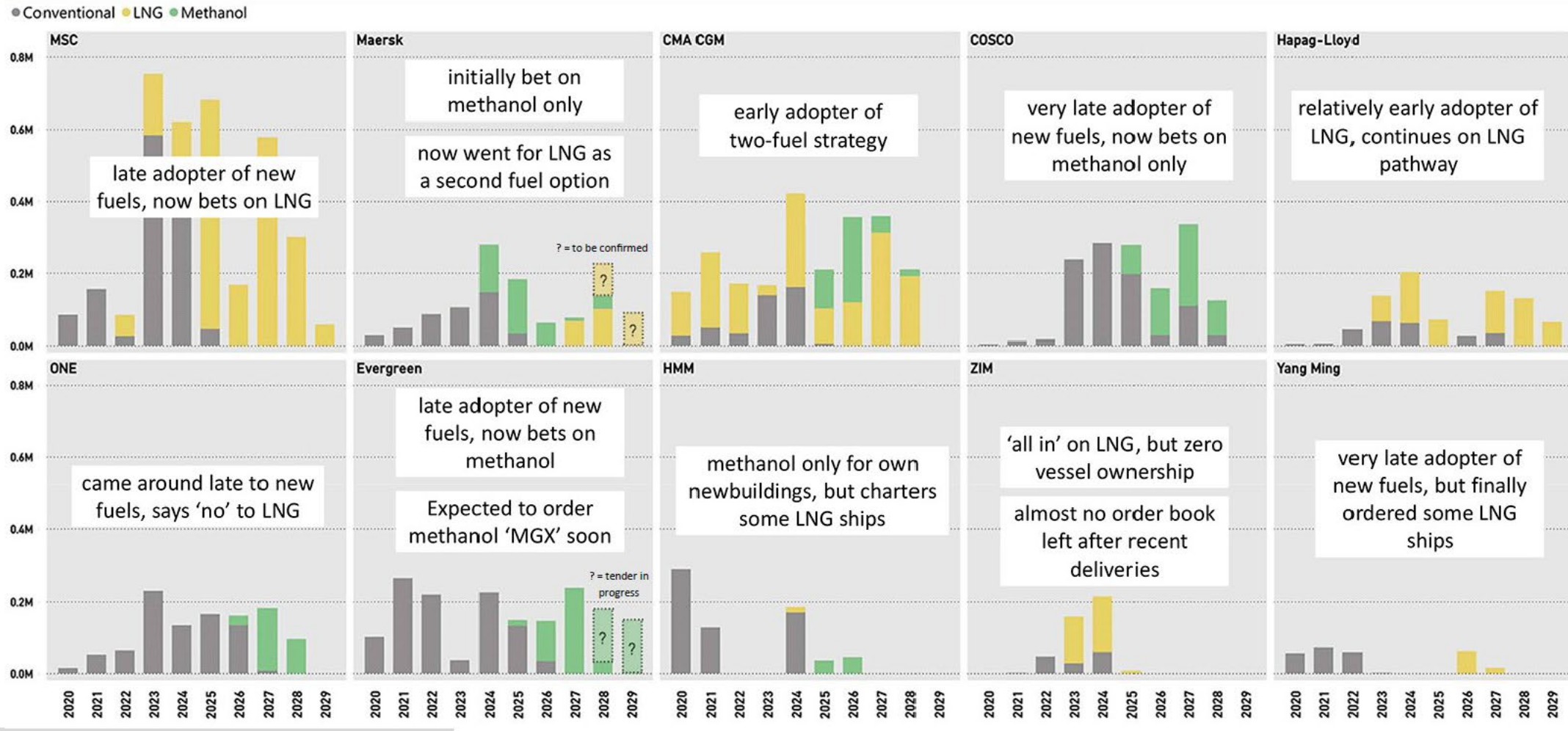
Fleet on the water in tonnage terms capable of using alternative fuels or propulsion.

50.3%
of the orderbook in GT terms capable of using alternative fuels or battery hybrid propulsion

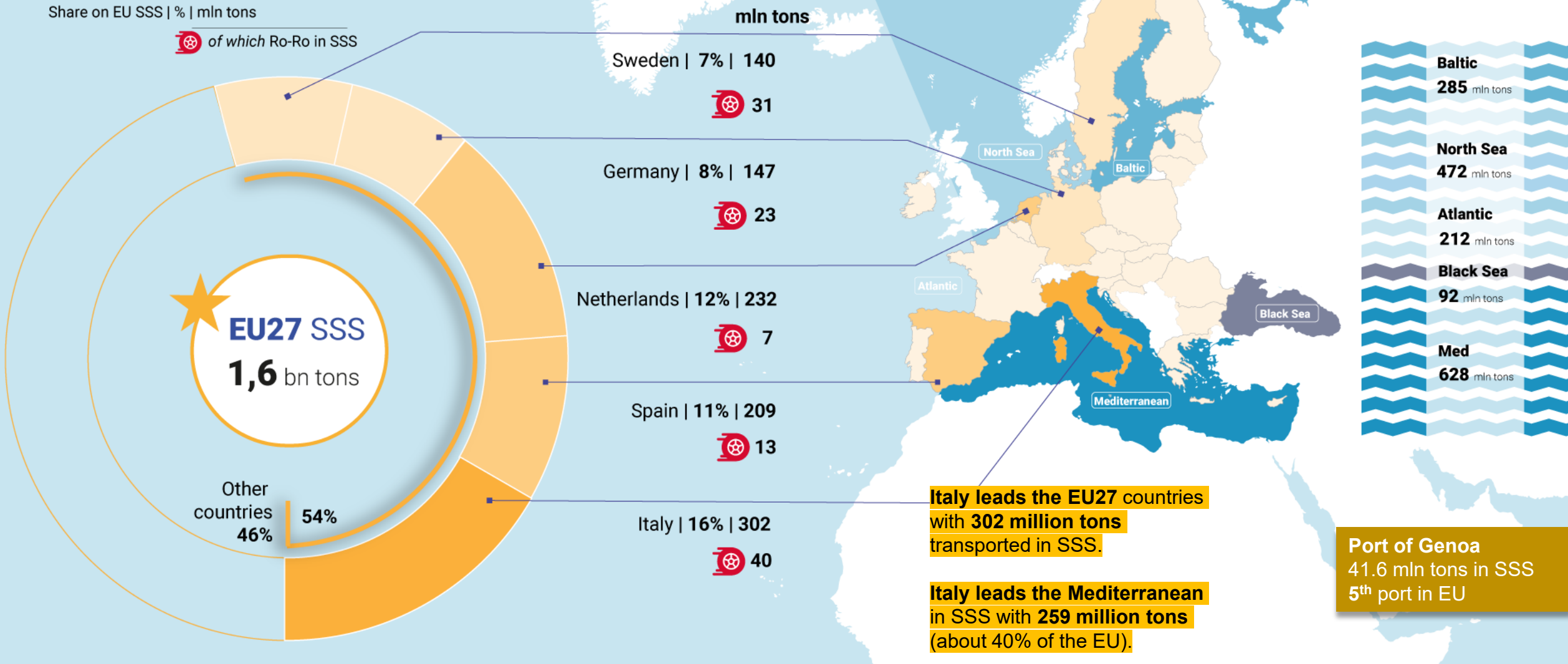
Alternative fuels	Active	Under development	
Bunkering ports			
LNG	190	83	
Methanol	12	15	
Shore Power Connection	202	44	
			▶ 2,590 ships equipped or to be equipped with shore power connections

Source: SRM on Clarksons

ALTERNATIVE FUELS BY CARRIER



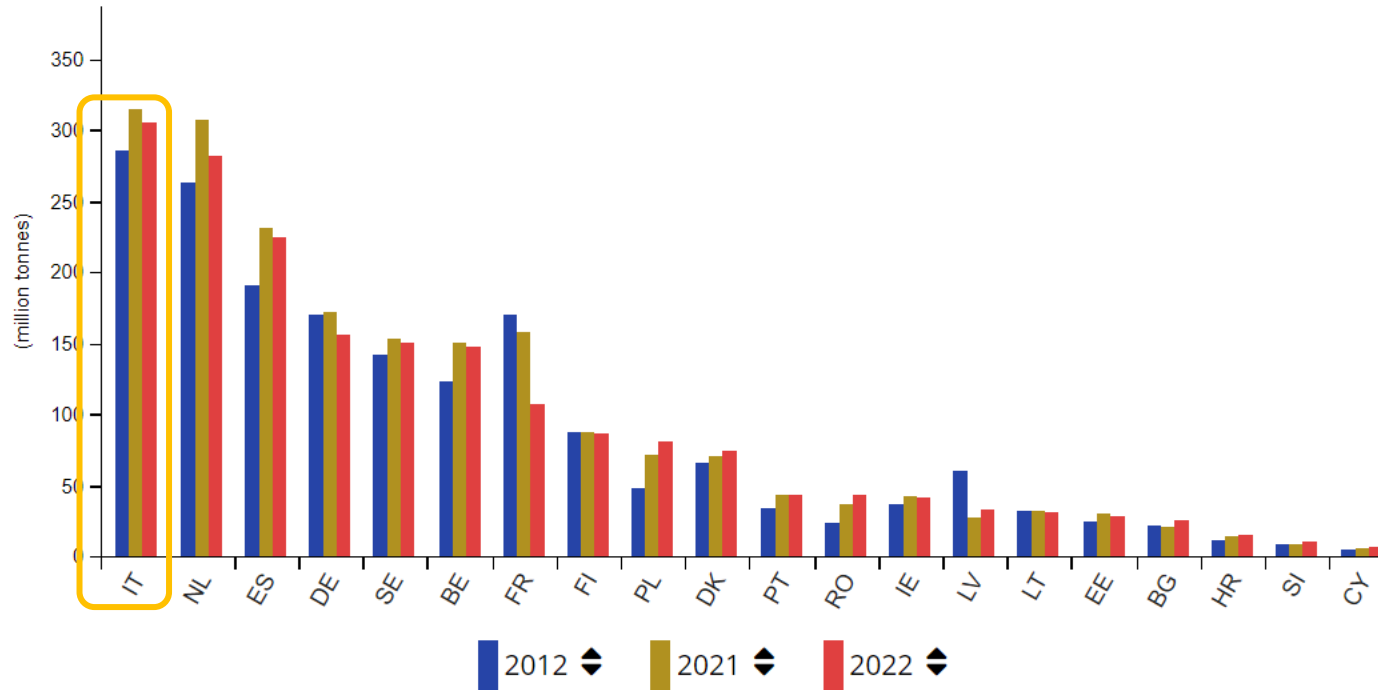
Short Sea Shipping in the European Union



Source: SRM on Eurostat. Data on 2023

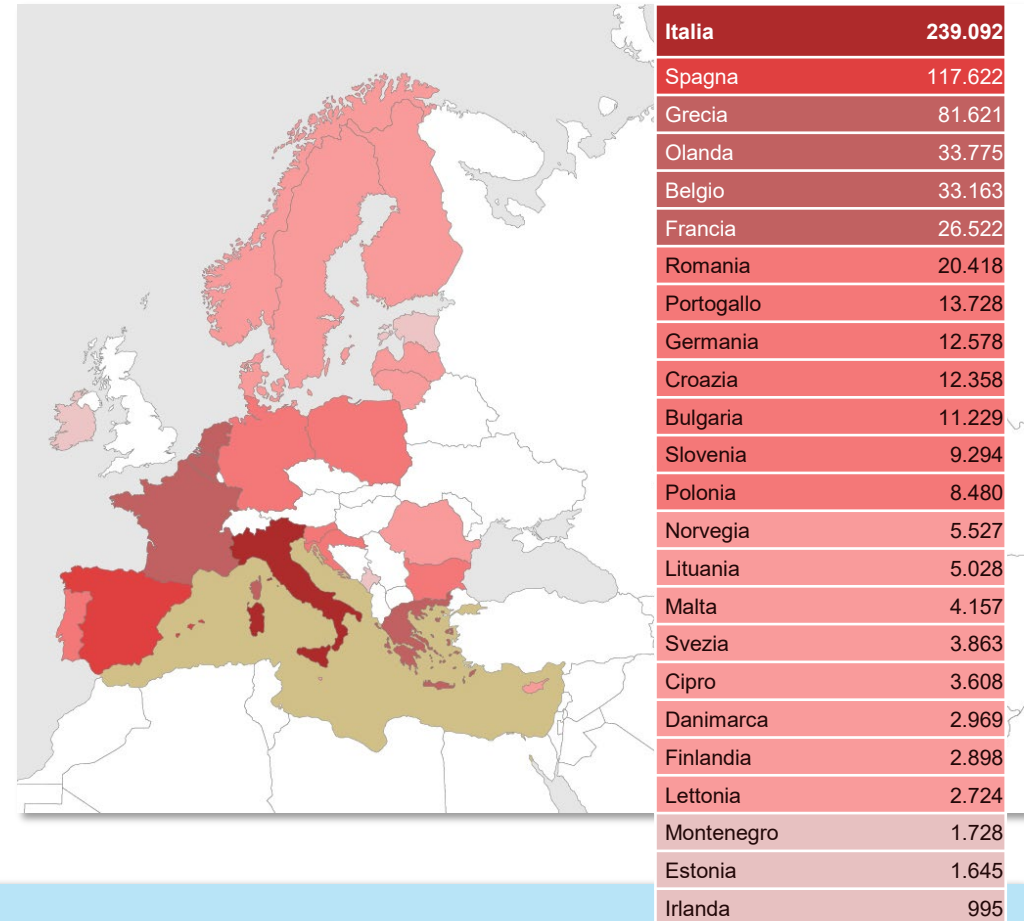
Short Sea Shipping a strategic Driver

Comparison EU Countries [million tonn]



Source: SRM su Eurostat

SSS in the Mediterranean [000 tonn]



SSS as a support to the supply chain

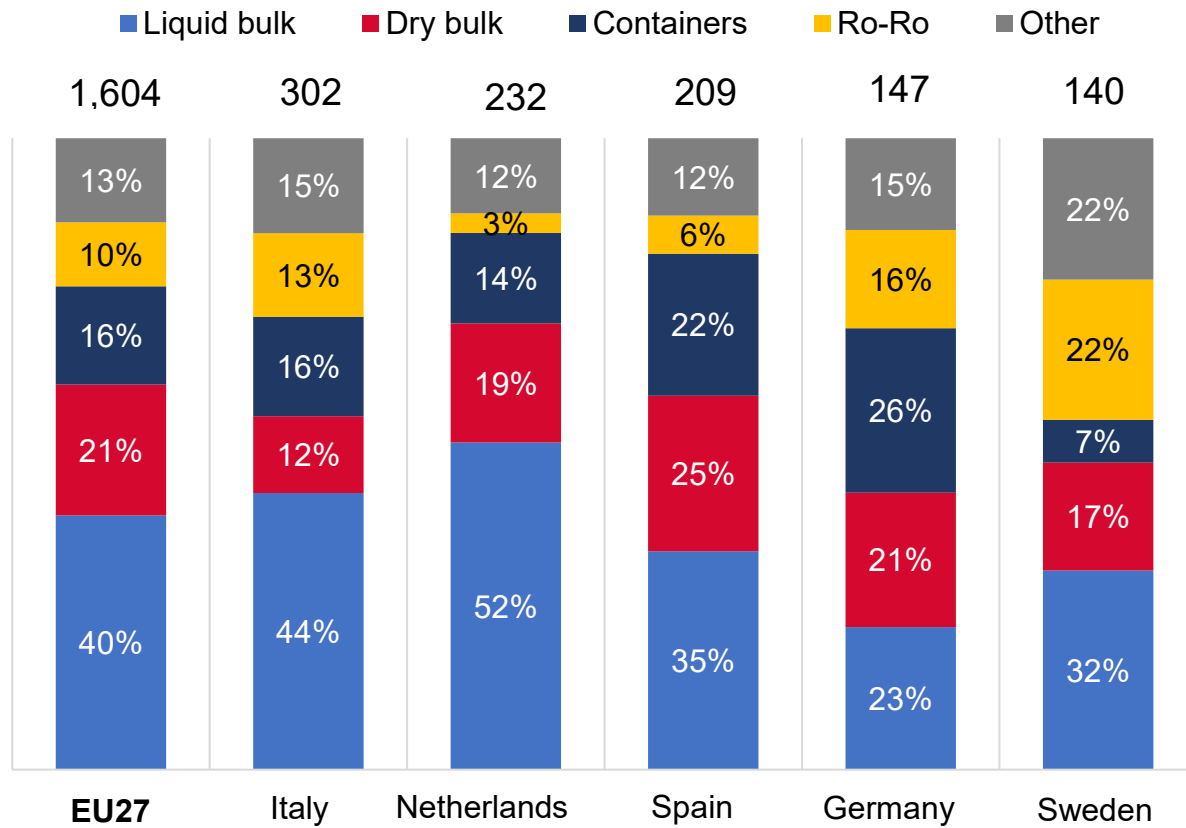
305 mln tonn
Italy leader
in EU for SSS



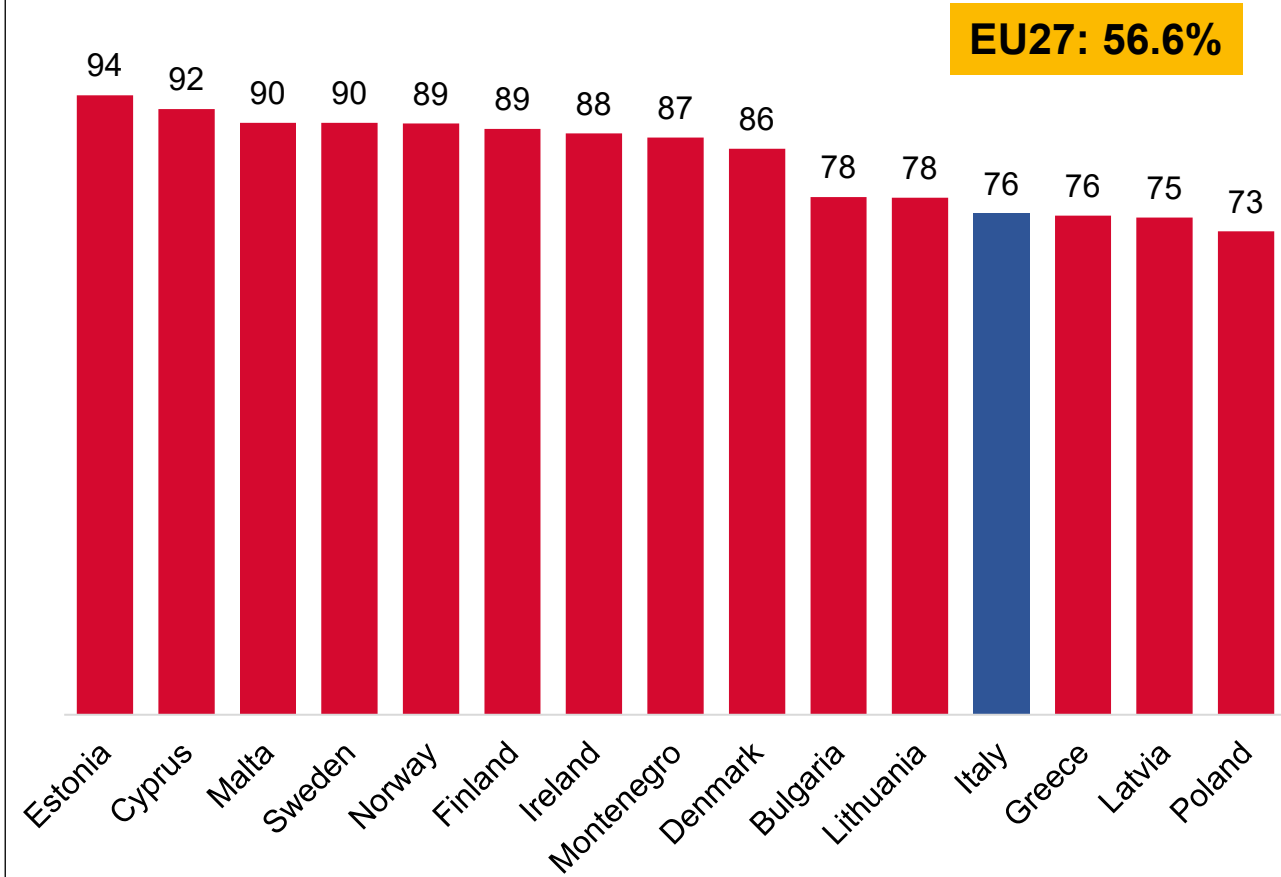
239 mln tonn
Italy leader
in MED for SSS

Short Sea Shipping in the European Union

Short sea shipping of freight **by type of cargo** in the Top 5 EU countries
(%, based on tonnes and mln tonnes)

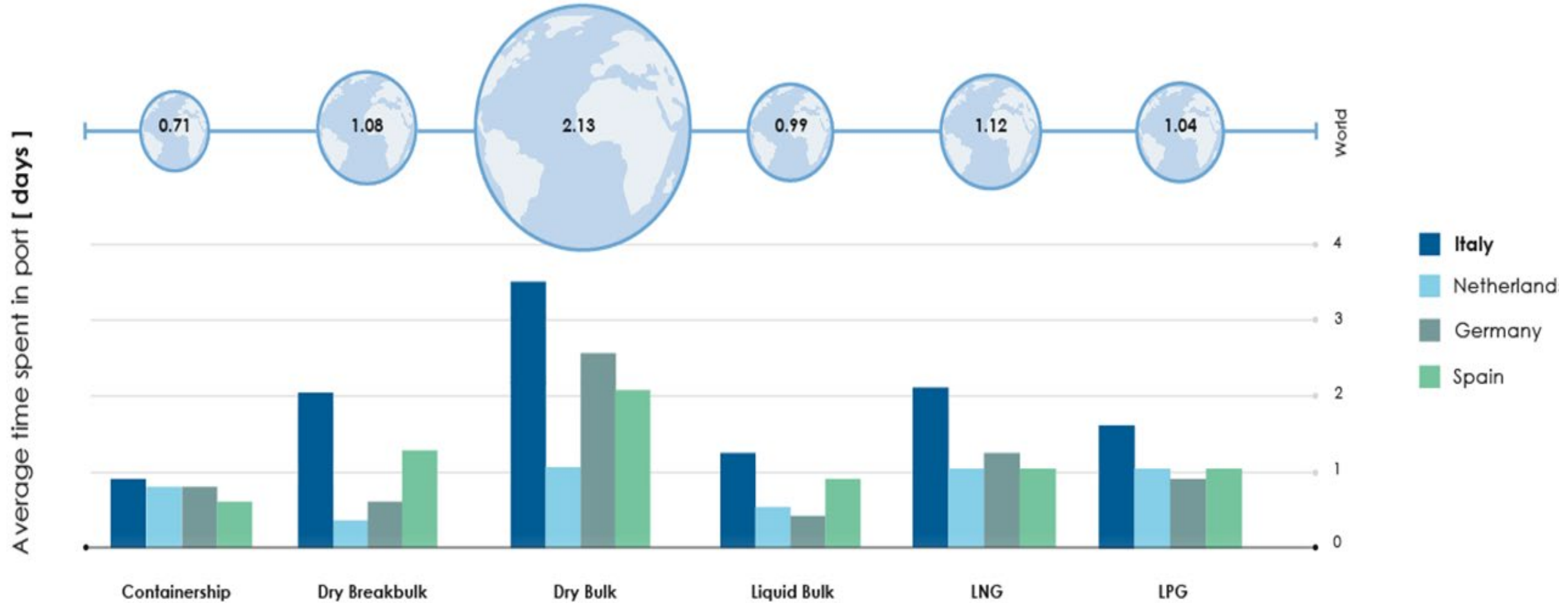


Short sea shipping of freight in total sea transport
(%, based on tonnes)



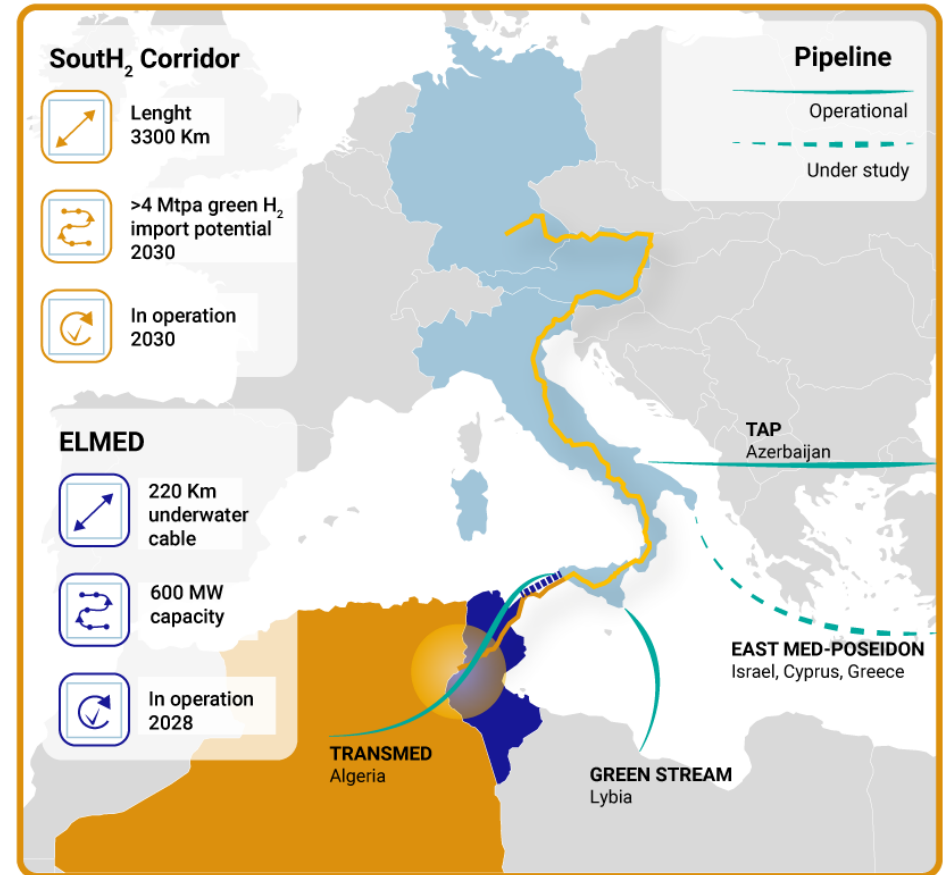
Data on 2023. Source: Eurostat

Time spent in ports: a new index



Italy can strengthen as an energy hub for Europe

- Less than 1% of the surface area of the countries of North Africa would be sufficient to generate enough electricity not only for their needs but also to produce a surplus to export to Europe.
- It's essential to **improve connections**, with investments in solar and wind power plants in North Africa.
- Creation of a trade of renewables energy across the Mediterranean through **electricity highways; existing gas pipelines for green hydrogen and synthetic gas; maritime routes to ship biofuels and liquid synthetic fuels** to EU ports.



The recent strategic pact between Italy, Albania and the UAE, but also the project of the **SouthH₂ Corridor** or the new grid electricity connection **ELMED** between Tunisia and Italy, are all examples of a new energy infrastructures diplomacy that strengthen dialogue between the Mediterranean's shores and is an additional step to position Italy - in the framework of "Piano Mattei" - as an energy hub between Europe and Africa.



Thank you for your attention

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