Maritime & Ports

Source Metadata

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sector	Transport
subsector	Maritime & Ports
mitigation	Y
adaptation	Y
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CPI Definition & Scope

Maritime and Ports in CPI's GLCF framework tracks climate finance directed at decarbonizing shipping and port operations. CPI captures investment in alternative marine fuels (green ammonia, methanol, hydrogen), vessel efficiency improvements, shore power (cold ironing) infrastructure, electrification of port equipment, and port climate resilience infrastructure. International shipping accounts for approximately 3% of global GHG emissions and is considered a hard-to-abate sector.

Subsectors & Examples

- **Green Shipping Fuels** — ammonia, methanol, hydrogen, and LNG bunkering
- **Vessel Efficiency** — wind-assisted propulsion, hull optimization, slow steaming technologies
- **Shore Power** — cold ironing infrastructure at ports
- **Port Electrification** — electric cranes, yard tractors, automated guided vehicles
- **Port Climate Resilience** — sea wall reinforcement, elevated infrastructure, drainage systems

Mitigation & Adaptation Classification

Maritime and ports is classified as **dual-benefit** in CPI's framework. Mitigation comes from fuel switching, efficiency improvements, and electrification of port operations. Adaptation benefits arise from port resilience

investments against sea-level rise, storm surge, and extreme weather events that threaten coastal maritime infrastructure.

LATAM Relevance

Maritime transport is vital for Latin American trade. Colombia's Caribbean ports (Cartagena, Barranquilla, Santa Marta) are major trade gateways requiring both decarbonization and climate resilience investment. Peru's Port of Callao is South America's second-largest container port and faces both emissions and sea-level rise challenges. Costa Rica's Pacific and Caribbean ports serve Central American trade routes. The region's dependence on maritime commodity exports makes shipping decarbonization strategically important.

Cleantech Taxonomy Crosswalk

Maps to Cleantech Taxonomy sector **TR** (Transport) for maritime systems. Cross-references with **ES** (Energy Systems) for alternative fuels and shore power, and **BU** (Buildings) for port infrastructure resilience.

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