

ShorePower Retrofit





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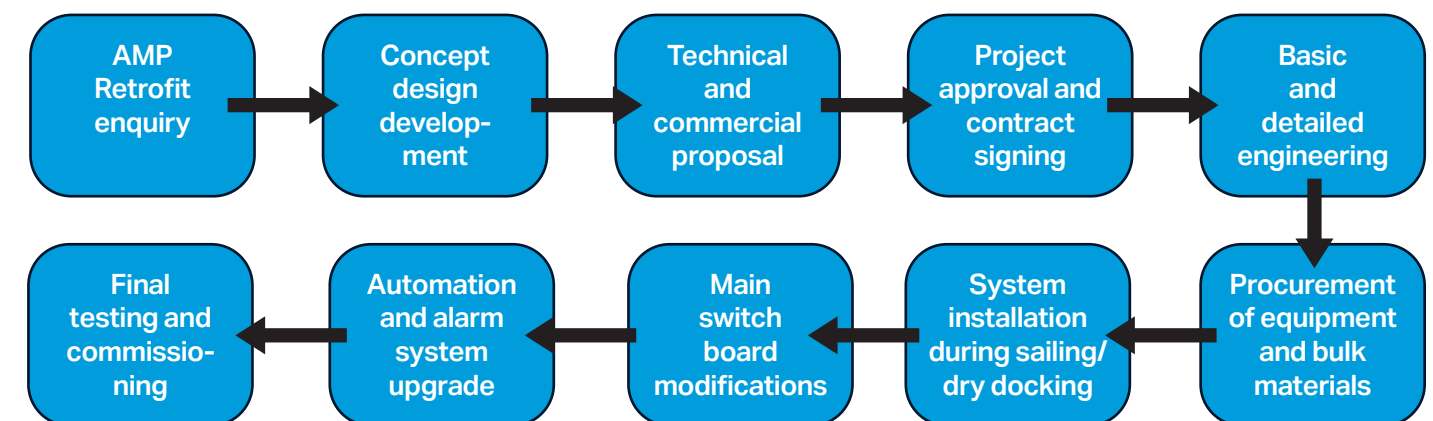
*Ships equipped with **Cavotec ShorePower** technologies connect to shore power at ports worldwide – enabling port authorities and shipping lines to significantly reduce harmful emissions and noise.*

As more port operators invest in shore-based shore power connection systems, and many new-build vessels are delivered shore power-ready, a growing number of shipowners and operators are also retrofitting their existing fleets with shore power systems. While container vessels led the way, retrofitting is now increasingly common across other vessel types, including tankers, bulk carriers, Ro/Ro ships, and cruise ships.

Cavotec is a trusted partner to the global maritime industry and a leading provider of AMP (Alternative Maritime Power) retrofit solutions – also known as cold ironing – for existing fleets operated by shipowners and charterers. In addition to completing retrofits during scheduled dry dock periods, we have successfully delivered multiple projects while vessels remained in service, helping customers maximise operational efficiency and minimise disruption.



Shore power turnkey retrofit project value chain:



What is shore power retrofitting?

- Shore power retrofitting involves installing onboard systems that enable ships to connect to shore power electrical power while docked.
- Typical onboard shore power systems include cable management systems, high and low voltage power and signal cables, power receptacles, change-over panels, transformer, and AMP incoming and control panels integrated with the main switch board.
- The installation process may also require modifications to vessels' switchboards, power management and alarm monitoring systems, and where necessary, structural adaptations.
- Retrofit installation and commissioning can be performed in port, during voyages, or at dry dock. Installation typically takes between two to four weeks, depending on vessel size and system configuration.
- Project costs vary based on multiple factors: vessel type and segment-specific regulatory requirements; whether the system needs to be installed on one or both sides of the vessel; main switchboard voltage (low or medium); whether the switchboard is AMP-ready or requires significant upgrades; distance between AMP equipment and the main switchboard; and the chosen location for installation.

Benefits of Retrofitting Vessels with Shore Power Connection Systems

- Extend the operational life of existing vessels by aligning with evolving regulations
- Ensure compliance with the increasing number of ports requiring shore power connections
- Support your environmental goals and sustainability commitments



Cavotec's unique shore power offering

- Cavotec is a trusted partner and pioneer in cable management systems for both high and low voltage connections across a wide range of vessel types.
- Cavotec offers a comprehensive range of retrofit system integration solutions, featuring flexible cable management configurations. These solutions are designed to accommodate diverse vessel layouts, comply with evolving regulations, and address operational challenges for container ships, Ro-Ro vessels, PCTCs, bulk carriers, and tankers.
- With a well-established global network, Cavotec retrofit teams deliver AMP services – including full system commissioning and long-term operational support – worldwide and in line with the timelines and preferences of shipowners and operators.
- Cavotec collaborate closely with each client to develop tailored solutions that meet their technical, operational, and commercial requirements.

Have Cavotec contact you!



To discuss your specific requirements for making your operations safer, more efficient and more sustainable. Simply book a call at www.cavotec.com/contact-us

Disclaimer: specifications are subject to change without notice.
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