ENGINEERING TOMORROW



Looking for experts in **Shore Power Supply?**

Electrification through Power Conversion

By connecting to shore power whilst berthed, vessels can shut down their auxiliary generators completely. It also supports vessel charging, to recharge batteries onboard hybrid or electric-powered ships. With electric shore supply, the air in port is free of emissions from diesel generators, helping to meet International Maritime Organisation emission control area emission targets. Shore power supply ensures not only clean air to breathe but also a noise-free environment. When using drive technology in a shore-supply solution, ships can source clean energy such as solar or wind power from local grids.

A shore supply installation involves services and components from many vendors.

At Danfoss we supply the AC drives, that are at the heart of the power conversion. We hold extensive experience in shore power supplies and welcome any inquiry you might have concerning your future shore power supply.

100+ shore power supply installations across the globe

#DanfossMarinePro

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Overview of key stakeholders in a **shore power** supply project



Supply/ Substation	Port Planning	Grid Converter	Quay
 Stakeholder: Utility Port Authority System Integrator Scope: Civil work Load (active and reactive power) Harmonic Automation Protection Interface 	 Stakeholder: Port Authority System Integrator Where: Which vessel types use which quays Scope: Civil work 	 Stakeholder: Port Authority System Integrator Drive supplier Where: Container Separate building Scope: Civil work Cabling Cooling Interface Interface Metric Cabling 	 Stakeholder: Vessel owner Port Authority System Integrator Scope: Portal with log-in for vessel, and more Load increase / decrease management Cable management Energy market

A shore supply installation involves services and components from many vendors.

These include port authorities, local government and vessels owners amongst others. A successful project is in addition recognized by positive

authorities, vessel owners and crew. It is important to recognize all

awareness, happy utilities, port

publicity in media, positive political

stakeholder at an early stage and understand their needs. Please read more:

(For printed: scan QR-code. For iPaper: click on QR-code or title)



Paper on Shore Power Supply



Webpage for shore power supply



Why hybridization?

Contact: www.danfoss.com/en/contact-us/

Tax incentives in Sweden, Denmark, Germany European Investment Bank (EIB) - finance available – Paris Agreement

At Danfoss we can help you find the best partners for your project.

California Air Resources Board (selected ports in California)

IMO Emissions Control Areas (banning high-sulphur content fuel)

European Parliament Directive (selected ports in Europe)

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Incentives

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