

POWER OF THE SEA

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welcome



mt UPS **mt** CONVERTER **mt** TRANSFORMER **mt** CHARGER

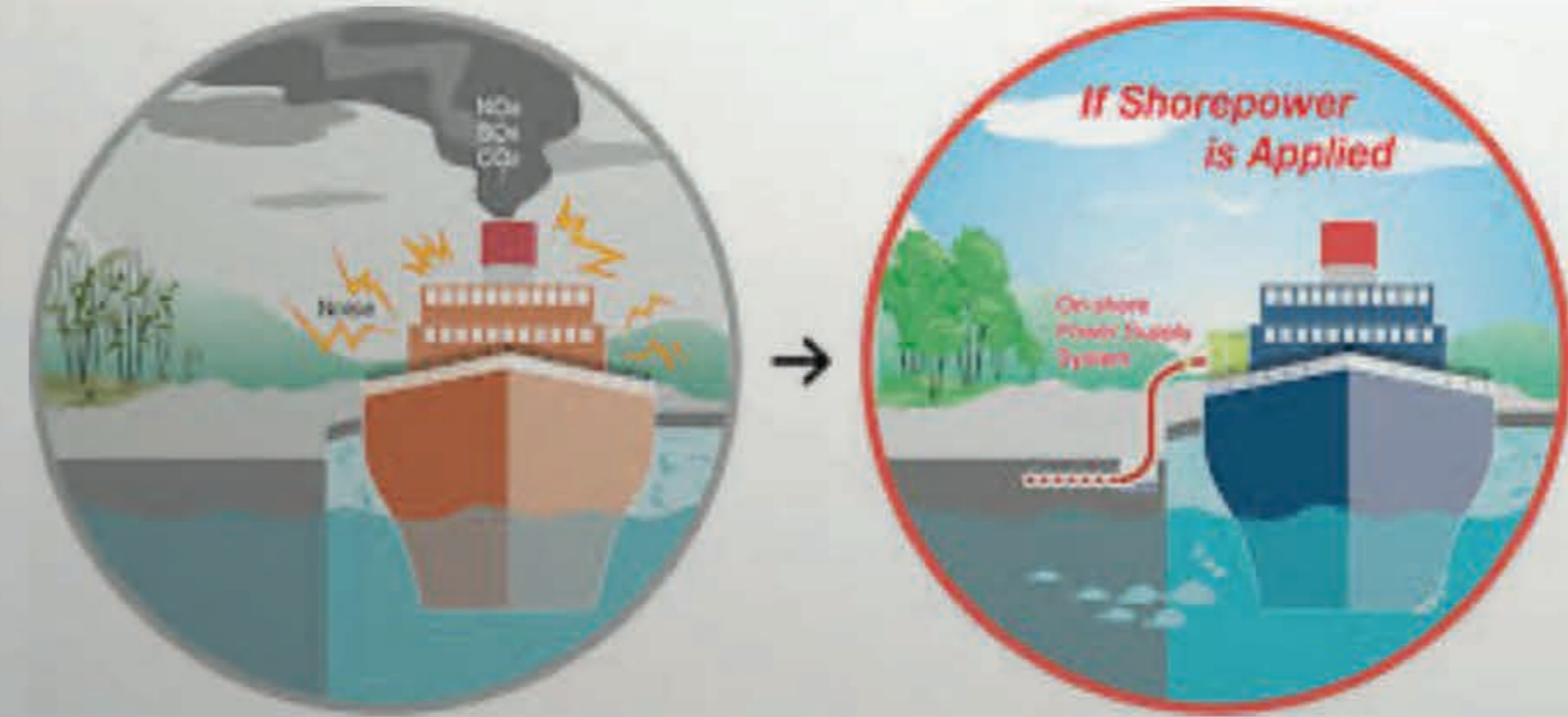
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COLDIRON



SEAPOWER SHORE CONNECTION (COLD IRONING) APPLICATION FOR VESSEL

100 kVA
20MVA



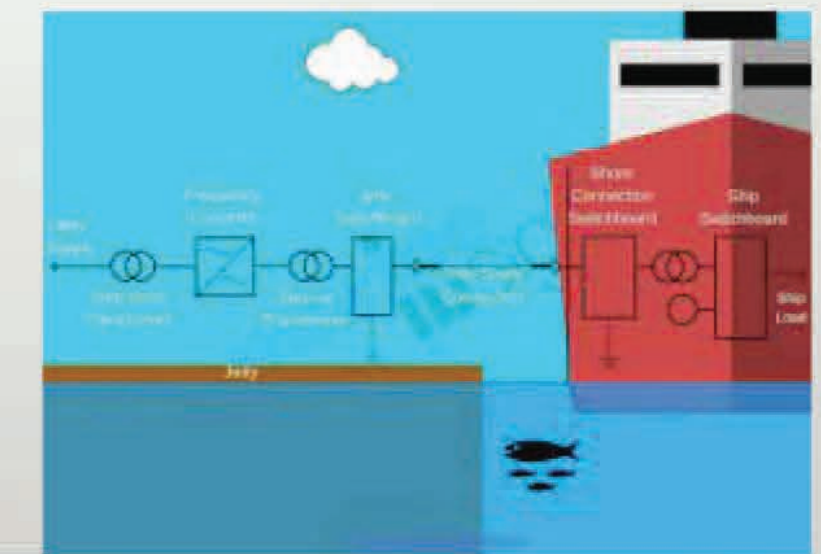
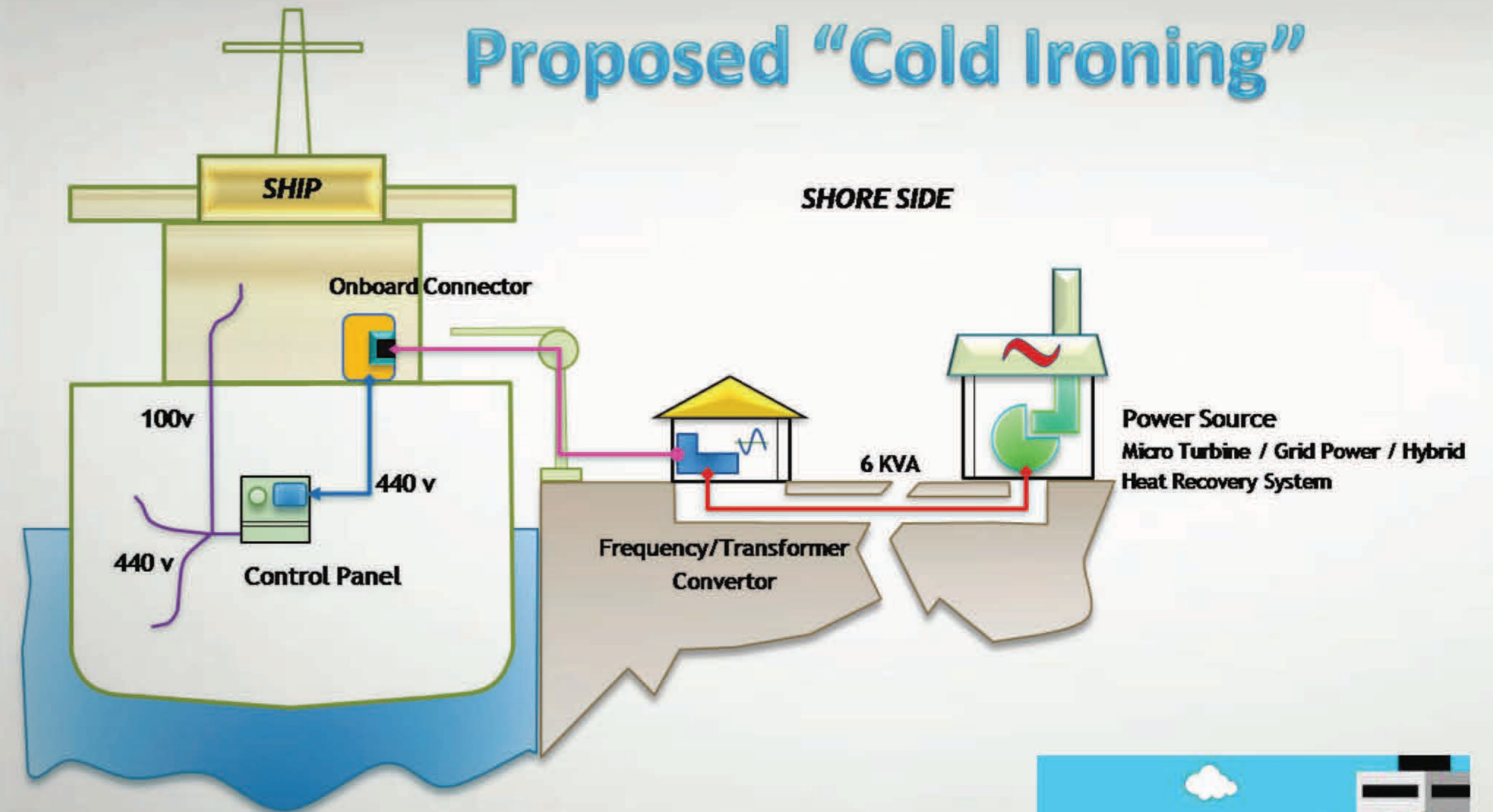
SEAPOWER proposes
environmental protection
that are part of a cleaner and
brighter future.

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SEAPOWER SHORE CONNECTION (COLD IRONING) APPLICATION FOR VESSEL



100 kVA
20MVA



Environmental protection has been an echoing topic over the last decade and, within all of the talk, ship emissions have been cited as a major source of pollution. So, knowing a thing or two, SEAPOWER is doing something about that. The SEAPOWER Shore Connection protects port environments by supplying moored ships with electrical power from shore, thus allowing ships to shut down onboard generator engines and, in the process, reduce harmful emissions from the ship's power systems.

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**SEAPOWER SHORE
CONNECTION
(COLD IRONING)
APPLICATION FOR
VESSEL**



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CARB Regulation;

Airborne Toxic Control Measure for Auxiliary Diesel Engines Operated on Ocean-Going Vessels At-Berth in a California Port.

- :: Applicable to container, passenger and refrigerated cargo vessel visiting California Ports
- :: Vessel in-use operational requirements
- :: 80% of fleet shall meet the onboard auxiliary diesel engine operational time limits from 2020.
- :: 100% of fleet shall meet the onboard auxiliary diesel engine operational time limits from 2021.
- :: Bulk carriers, RORO ships and tankers are also expected to adopt the Regulation from 2025.

SEAPOWERSHORE
CONNECTION
[COLD IRONING]
APPLICATION FOR
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NORTH SEA AND BALTIC SEA Regulation;

Container ship and passenger shipports are exploring shore-to-ship power supply systems. Systems are already up and running in Sweden and Germany, while under planning in Belgium.

Also The Chinese government has announced regulations to major harbor.



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100 kVA
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Mobile and Fixed Type Containerized Solution:



Easy loading and
unloading of equipment
for a route change,
suitable for remodeling
into an in-service ship.



Easy blackout-free
power switching
between ship and
shore with one push of
a button.



Global standard as
recognized by many
major shipping
companies.



Highly reliable
standard system
with an excellent
track record.



Cable reel can
be loaded.
Power receiving
preparation time is
shortest.



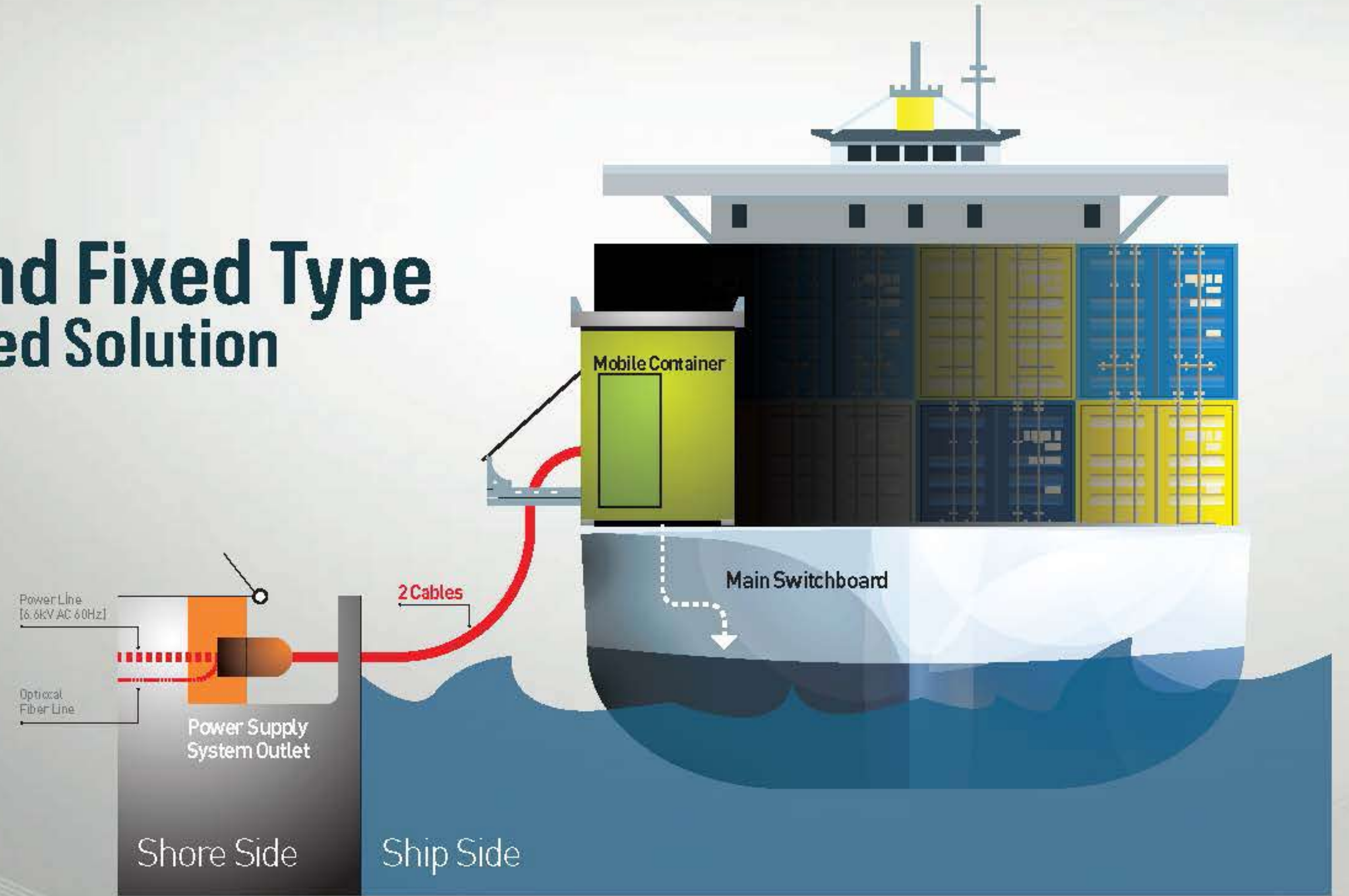
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SEAPOWER SHORE
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100 kVA
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Mobile and Fixed Type Containerized Solution



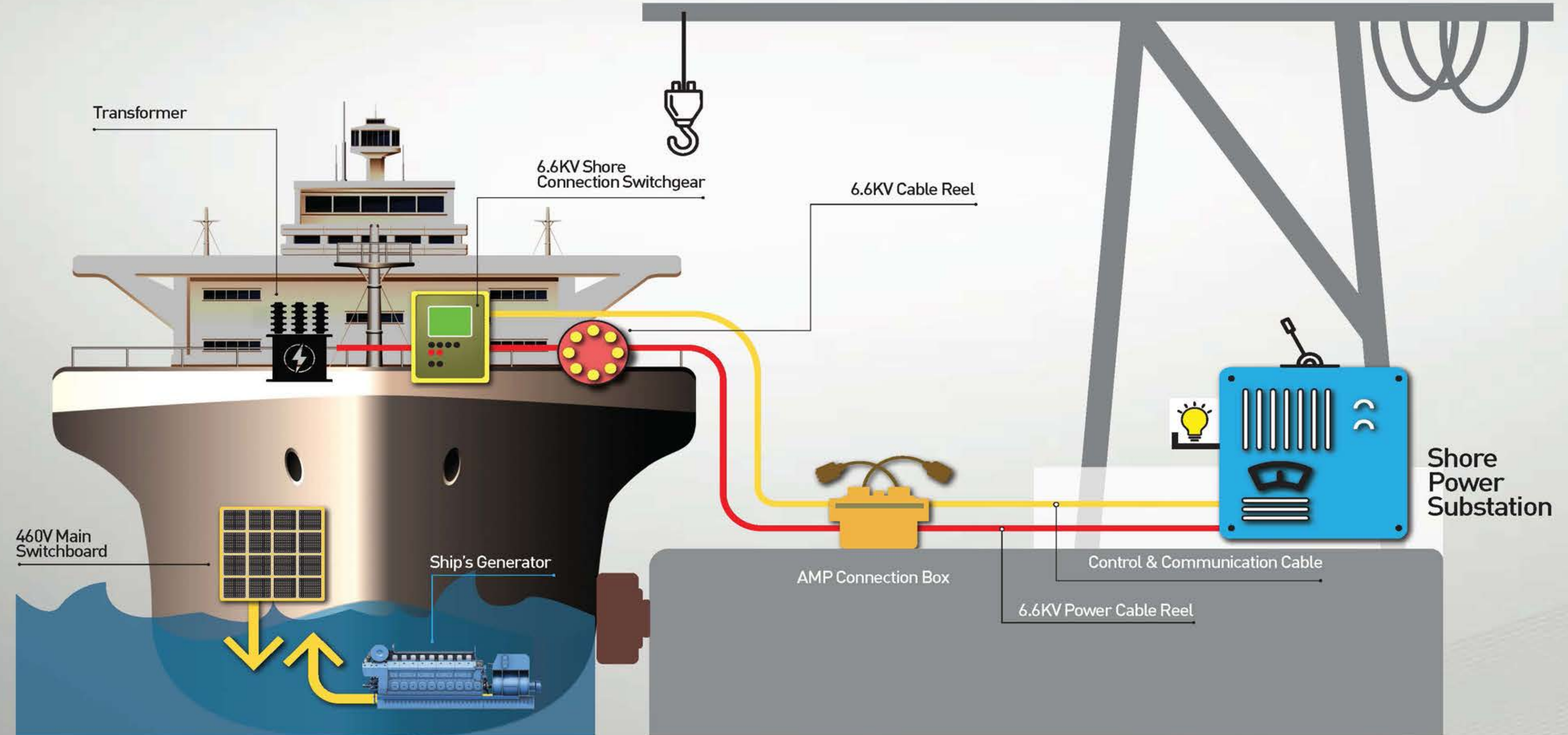
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SEAPOWER SHORE CONNECTION (COLD IRONING) APPLICATION FOR VESSEL



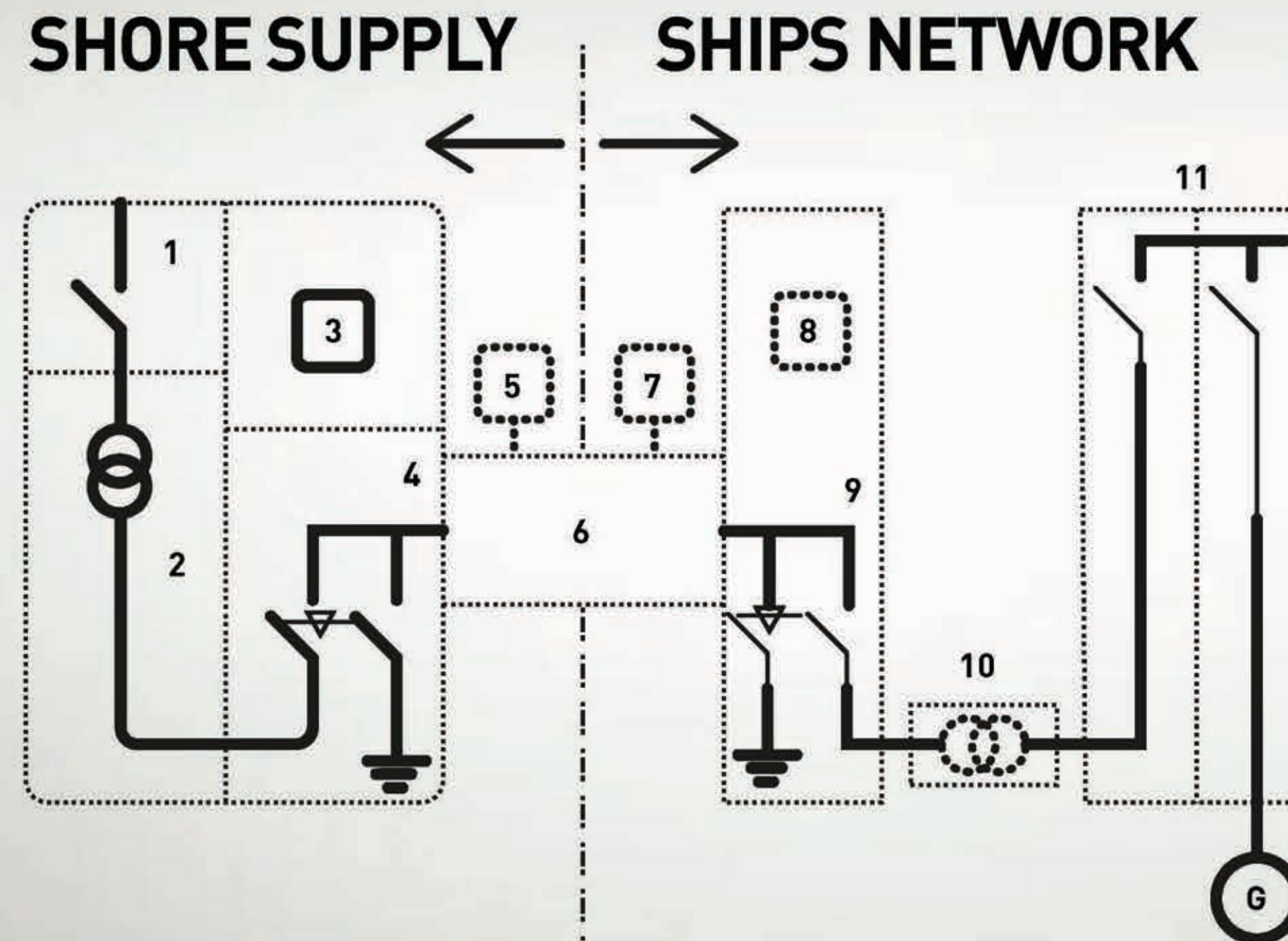
100 kVA
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Mobile and Fixed Type Containerized Solution



SEAPOWER SHORE
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Block diagram of a typical HVSCS arrangement



1. SHORE SUPPLY SYSTEM
2. SHORE-SIDE TRANSFORMER
3. SHORE-SIDE PROTECTION RELAYING
4. SHORE-SIDE CIRCUIT - BREAKER AND EARTH SWITCH
5. CONTROL SHORE
6. SHORE - TO - SHIP CONNECTION AND INTERFACE EQUIPMENT
7. CONTROL SHIP
8. SHIP PROTECTION RELAYING
9. ON-BOARD SHORE CONNECTION SWITCHBOARD
10. ON-BOARD TRANSFORMER (WHERE APPLICABLE)
11. ON-BOARD RECEIVING SWITCHBOARD