

OUR ROLE IN “ENERGY TRANSITION”

Sustainability defines our core business. By converting more polluting, land invasive and inefficient power plants, we help countries to significantly reduce their carbon emissions. Moreover, our energy solutions totally avoid construction, material transportation and employee transportation required for onshore (land-based) power plants, eliminating further high carbon footprint.

Thanks to our plug-and-play floating infrastructures, we do not occupy terrestrial areas, destroy forests or agricultural lands, or displace communities from their habitats. For us, ‘energy transition’ means a better world.

PHASED IMPLEMENTATION

Cutting Edge Technology, Immediate impact:

Immediate impact on environmental baselines by replacing old and inefficient power plants to phase out via Powership.

Existing Plants’ Natural Gas Conversion:

Conversion of the existing power plants and inland industrial facilities to natural gas via a virtual pipeline, providing cleaner generation and contributing to our project countries’ emission goals.

Aim and Capability of Achieving Net-Zero:

Achieving net-zero emissions by integrating renewable energy sources, hydrogen, and renewable natural gas (RNG) to revolutionize the energy landscape.

HEALTH AND SAFETY

Our corporate culture is underpinned by the motto of “People First”. We are dedicated to safeguarding the health, safety, and well-being of every individual connected to our operations including our employees, visitors, subcontractors, and stakeholders globally.

Karpowership follows an “Integrated Management System”, consisting of ISO 9001:2015 Quality Management System, ISO 14001:2015 Environment Management System, and ISO 45001:2018 Occupational Health and Safety Management System.

Aligned with the Integrated Management System, Karpowership is fully committed to continuous improvement of its operations by adopting Quality, Environment & Social, Health & Safety and Information Security Policies.



UNITED NATION'S SUSTAINABLE DEVELOPMENT GOALS

As a company that has completed dozens of projects across the globe for over 25 years, we have been serving many of the United Nations Sustainable Development Goals.

We have been contributing directly, every day, on 4 different continents to the UNSDG 7, affordable and clean energy.

As an energy transition company we address the climate action goal, UNSDG 13, by replacing old, and inefficient power plants with new, and more efficient ones, replacing fuels with cleaner alternatives.

Furthermore, through our social impact projects, which primarily focus on the education of girls, we directly address UNSDG 5, gender equality. Also, by providing educational scholarships, we have contributed to enabling over 55,000 children to access education, thus touching upon UNSDG 10, reduced inequalities.

As a company operating within marine ecosystems, our relationships with communities, particularly with fishermen, established in all the locations we operate in, and the projects we have been implementing with them, contribute to UNSDG 8, decent work and economic growth, and UNSDG 11, sustainable cities and communities, by enhancing their socio-economic well-being.

We are pleased to contribute directly and indirectly to the United Nations’ outlined sustainability goals, ranging from job opportunities to the no poverty, through the direct and indirect impact we create.



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ENERGY TRANSITION NOW!



KARPOWERSHIP

WE ARE BUILDING THE FUTURE, NOW!

Planning for the future is not enough; we have to act now! That’s why, at Karpowership, we have redefined energy transition with a vision of a bright, accessible, and sustainable future.

We reimagined the energy solutions.

We offer cleaner, cost effective, fast-track turnkey energy solutions, and make them readily available to our clients through innovative financial strategies.

We rebuilt power and gas infrastructures.

We address our clients’ energy demands for any size and duration, maximizing the utilization of local resources.

We redesigned the energy transition.

Our clients do not need to make a choice between accessible and sustainable. We give them a head-start in their energy transition path towards net zero.

We reinspired our people for “One Purpose”.

At Karpowership, our commitment goes beyond simply completing tasks; it is about the way we approach our work that truly matters to us. Each of us takes pride in the positive impact we have on the world, our communities, and the future as we carry out our responsibilities. This awareness fuels our passion and dedication to our roles.



LNG AS A TRANSITION FUEL

As the world moves towards a more sustainable energy future, LNG plays a pivotal role in this transition.

One of the main advantages of LNG is its ability to work well with renewable energy sources like wind and solar power. These renewable sources are crucial for reducing carbon emissions but can be unpredictable because energy generation from renewables depend on weather conditions. LNG provides a reliable backup resource, ensuring that energy demands are met even when renewable sources are not producing enough power. This ability makes LNG essential for maintaining a stable and reliable energy grid.

In addition to the environmental benefits and providing a reliable base for renewable energy integration, LNG comes with significantly easier transportation and safe storage advantages. LNG also offers energy security for countries and provides flexibility for use in various fields from power generation to mining and industrial facilities.

POWERSHIP FLEET

Latest Technology
Multi-Fuel Engines

On-Board
Accommodation

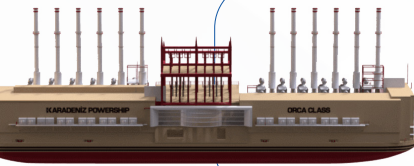
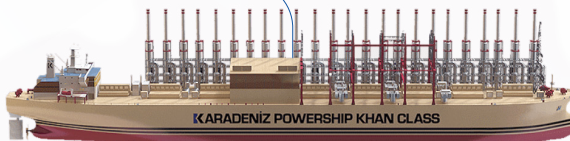
On-Board
Fuel Storage

On-Board
Substation

KHAN CLASS

Capacity: 415 - 470 MW
Draft: 5 - 7 meters
On-board accommodation: 80
Fuel storage: 38,000 MT

Number of engines: 21 - 24
Steam turbines: 2
Self-propelled



ORCA CLASS

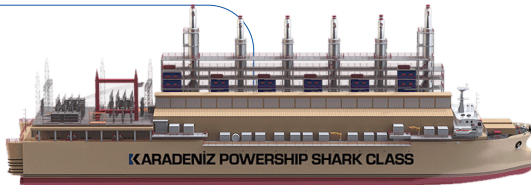
Capacity: 200 - 260 MW
Draft: 3 - 4 meters
On-board accommodation: 60

Fuel storage: 8,500 MT - 10,700 MT
Number of engines: 11 - 12
Steam turbines: 1

SHARK CLASS

Capacity: 110 - 240 MW
Draft: 5 - 6 meters
On-board accommodation: 50
Fuel storage: 830 MT - 5,500 MT

Number of engines: 6
Steam turbines: 1
Self-propelled



MERMAID CLASS

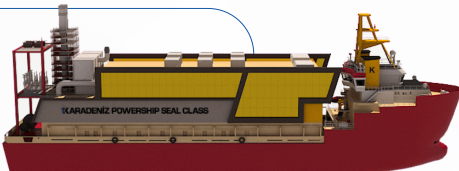
Capacity: 70 - 80 MW
Draft: 3 - 4 meters
On-board accommodation: 20

Fuel storage: 2,800 MT
Number of engines: 4
Steam turbines: 1

SEAL CLASS

Capacity: 34 - 40 MW
Draft: 5 - 6 meters
On-board accommodation: 20
Fuel storage: 2,045 MT

Number of engines: 2
Steam turbines: -
Self-propelled



	KHAN CLASS	ORCA CLASS	SHARK CLASS	MERMAID CLASS	SEAL CLASS
CAPACITY (MW)	415 - 470	200 - 260	110 - 240	70 - 80	34 - 40
LENGTH (OVERALL) METER	285 - 300	135 - 140	160 - 240	90 - 110	80 - 85
BREADTH (EXTREME) METER	45 - 50	40 - 45	20 - 32	25 - 30	18 - 22
HEIGHT (EXTREME) METER	45 - 60	45 - 60	40 - 55	40 - 50	30 - 40
DRAFT (MOULDED) METER	5 - 7	3 - 4	5 - 6	3 - 4	5 - 6
ON-BOARD ACCOMMODATION (PAX)	80	60	50	20	20
FREQUENCY (Hz)	50Hz / 60Hz	50Hz / 60Hz	50Hz / 60Hz	50Hz / 60Hz	50Hz / 60Hz

KARPOWERSHIP

BRAZIL - PROJECT LAYOUT

LNG Storage Capacity - 125,000 m3

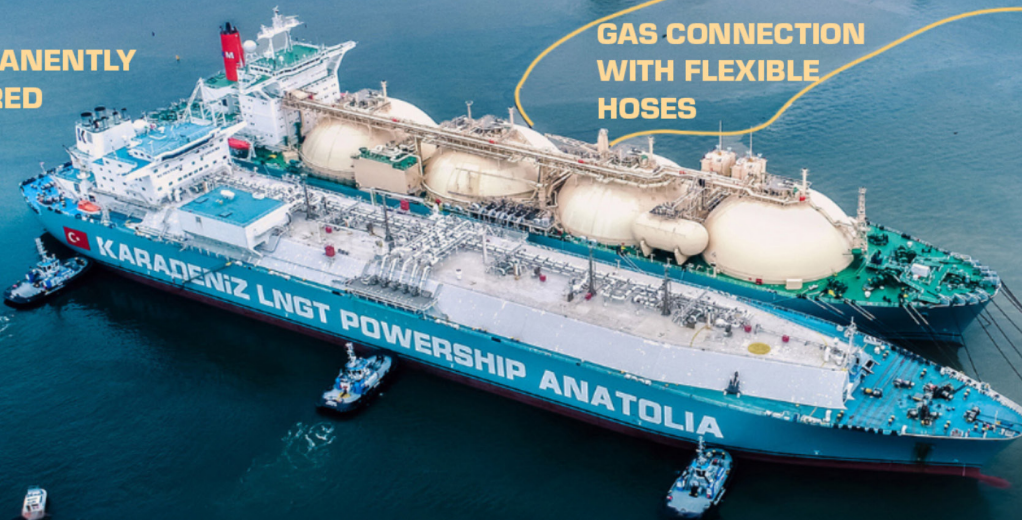
Moss type containment system

LNG Carrier for supply of 560 MW of dispatch

Cargo transfer: Flexible hoses, STS

FSRU
PERMANENTLY
MOORED

LNGC
FULL
CARGO
STS - 24H



GAS CONNECTION
WITH FLEXIBLE
HOSES

PRODUCED ELECTRICITY
TRANSMITTED
TO THE GRID

4 POWERSHIPS WITH
TOTAL INSTALLED
CAPACITY OF 560 MW

LNG FLEET

8

FSRUs

4

LNGCs

4

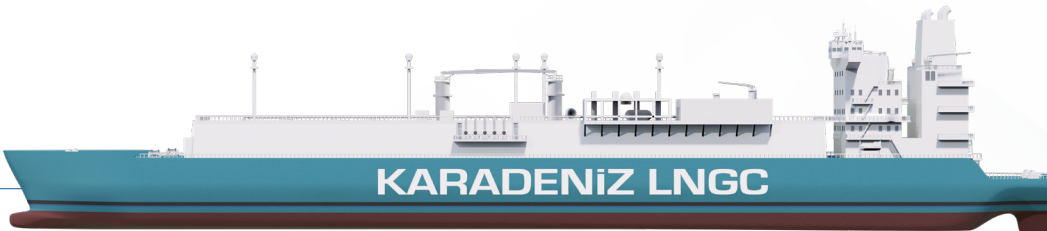
FLNGTs



FSRU

Regasification capacity: 84 - 126 MMSCFD
Capacity: 126,296 - 127,475 cbm

Send-out pressure: 8 - 10 barg
Containment system: Moss & Membrane



LNGC

Capacity: 63,957 - 63,993 cbm
Boil-off rate: 0.15 - 0.18% /day

Propulsion system: Steam
Containment system: Membrane GT No.96



FLNGTs

1,125 MTPA