



SUBMARINE CABLE SOLUTIONS

LS Cable & System lights up the world through the sea



THE WORLD BEST CABLE SOLUTION LEADER

LS Cable & System supplies various cables and materials used for power grids and communication networks around the world across all industries providing its top class technology and excellent quality. The company has also developed state of the art products, such as superconductors, HVDC and submarine cables that will lead the future energy industry.

LS spun off from LG in 2003 as a group specializing in electronics, electrical systems, energy and materials.



LS Cable & System

Transmission Cable
Distribution Cable
Submarine Cable
Telecommunication Cable
Industrial Cable
Industrial Material

LSELECTRIC

Electric &
Automatic Equipments

LS-Nikko Copper

Copper Refinement

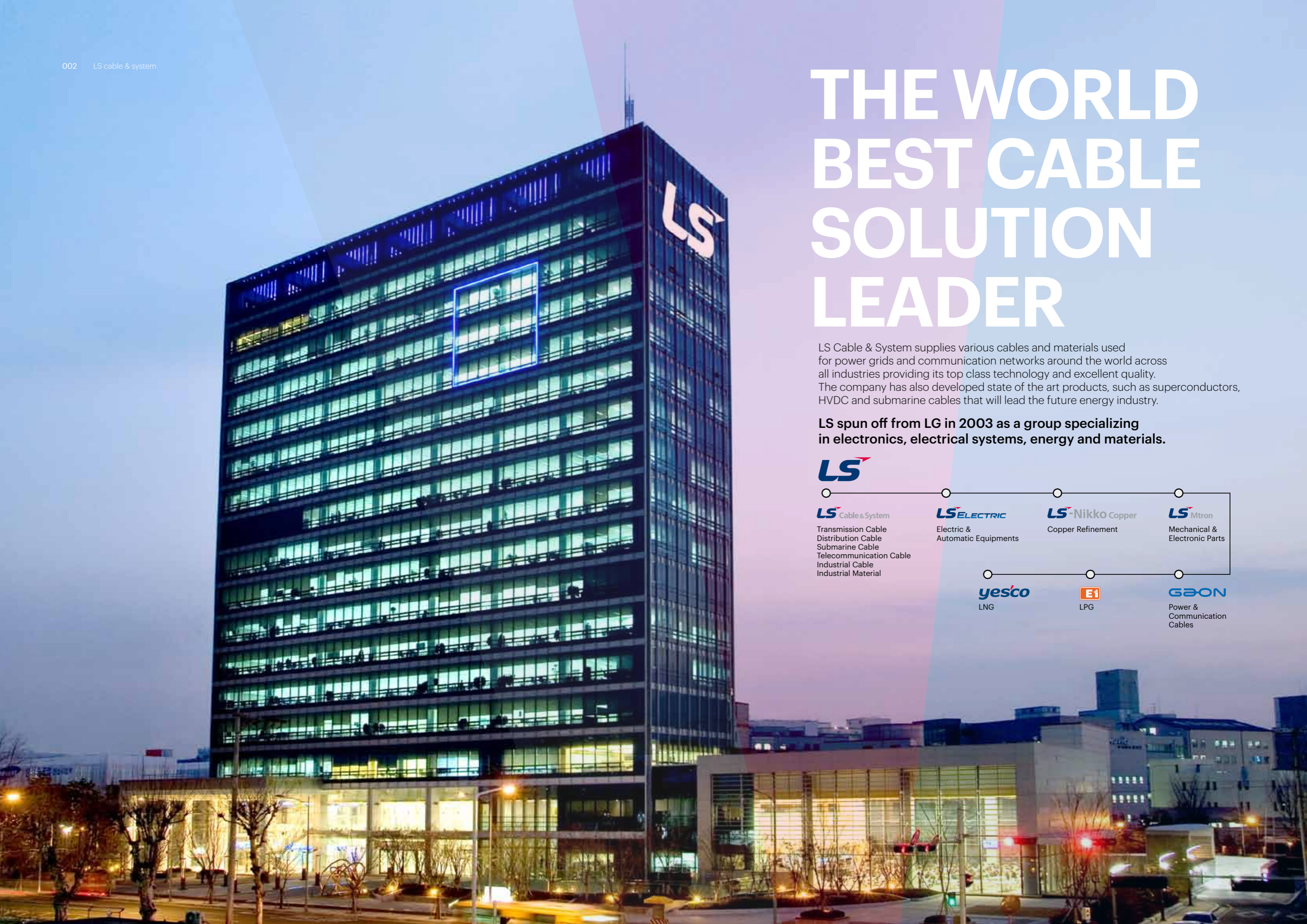
LS Mitron

Mechanical &
Electronic Parts

yesco
LNG

E1
LPG

GBON
Power &
Communication
Cables



Product & Application

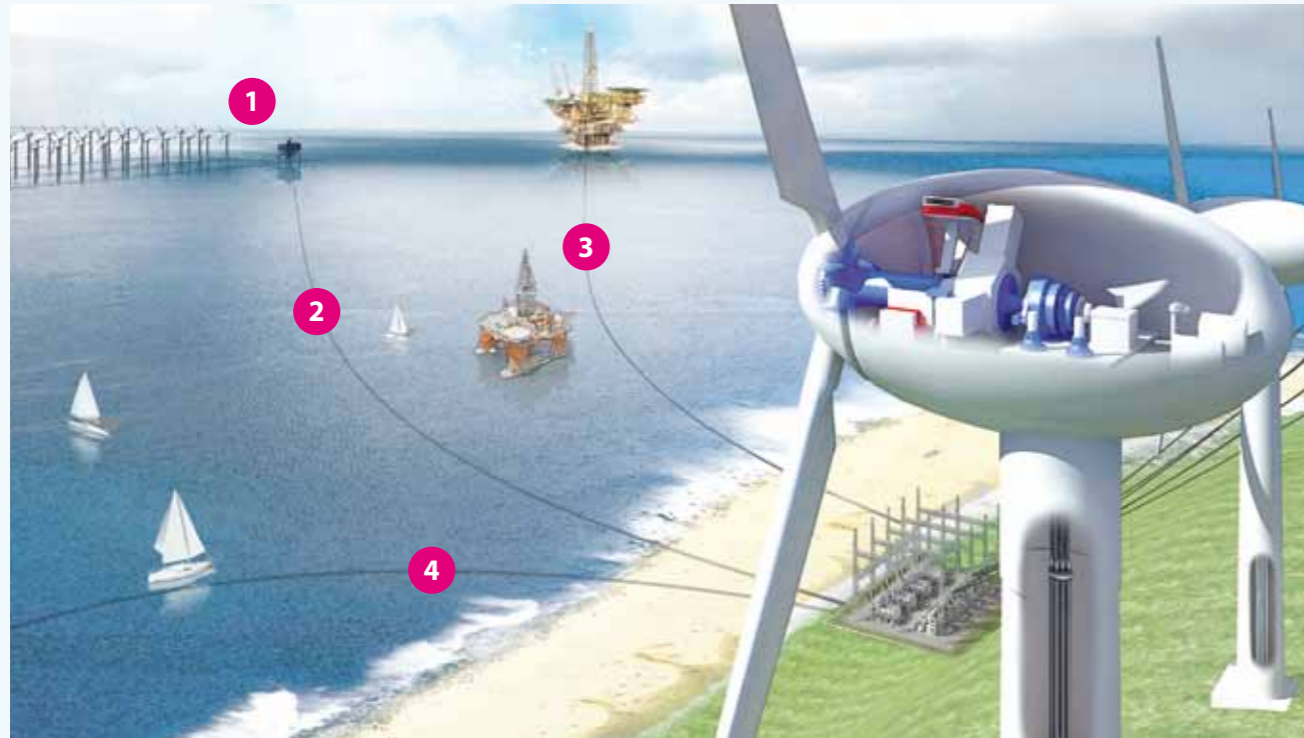
Grid Interconnection (HVDC, HVAC)

Offshore Wind Farm • Offshore Oil & Gas Platform

LS Cable & System provides power cable solution for on/offshore

Scope of work

- Supply (Submarine Cable System)
- Installation (Offshore & Onshore)
- Engineering & Project Management



1. Windfarm Infield (AC 10~66kv)

2. Windfarm Export (HVAC / HVDC)

3. Oil Rig Connection (AC 10~66kv)

4. Island/Country Interconnector (AC/DC)

[AC 33KV 3C XLPE]



[AC ~220KV 3C XLPE]



[DC ~275KV MI]



[DC ~320KV XLPE]



[DC 500KV MI]



Manufacturing & Testing Facilities

LS Cable & System has constructed the state-of-the-art manufacturing plant in Donghae city, Korea.

The plant is equipped with the most modernized production and testing equipment, which is specially designed for long length of submarine power cables. The main products are Mass impregnated (MI) for DC application and extruded solid dielectric cables for both AC and DC applications.

Quality is of paramount importance and we have developed our own quality assurance standard, which meets ISO 9001-2000, a most authoritative International Organization for Standardization (ISO).

Safety and health of all company employees and customer/client employees are vitally interested by the management and fully complied with ISO 14001-2004.



Transportation & Installation



Long length of submarine cable is transported through the freighter vessel containing a static cable tank/turntable or directly loaded onto the installation vessel.

For the safe operation of cable laying, proper cable tension management and alignment of various speed of equipment are required to avoid a kink, loops and possible damages.



Cable Protection

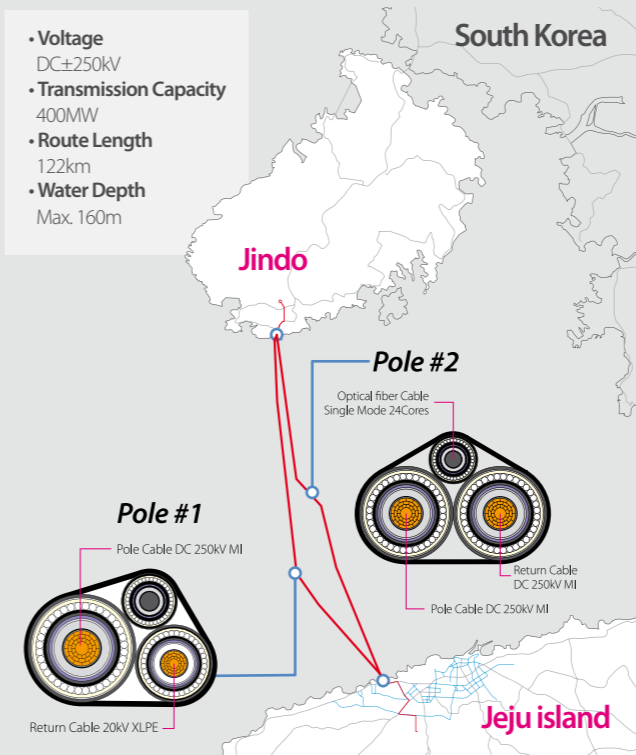
Most common method of cable laying is buried under the seabed by using jetting or trenching. Depending on the site conditions, additional cable protection methods will be applied such as articulated pipes, rock dumping, concrete mattresses, and etc.



Project Experience_HVDC Interconnection Project

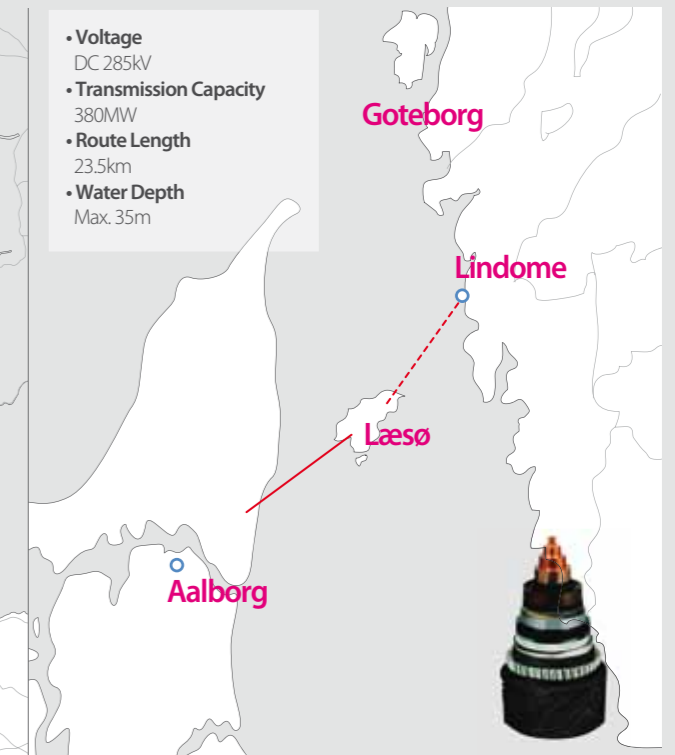
Jindo-Jeju HVDC 252kV, Korea

- Voltage DC±250kV
- Transmission Capacity 400MW
- Route Length 122km
- Water Depth Max. 160m



Konti-Skan HVDC 285kV, Denmark

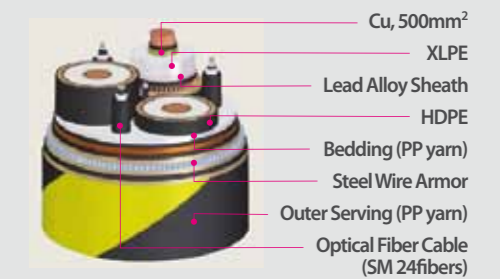
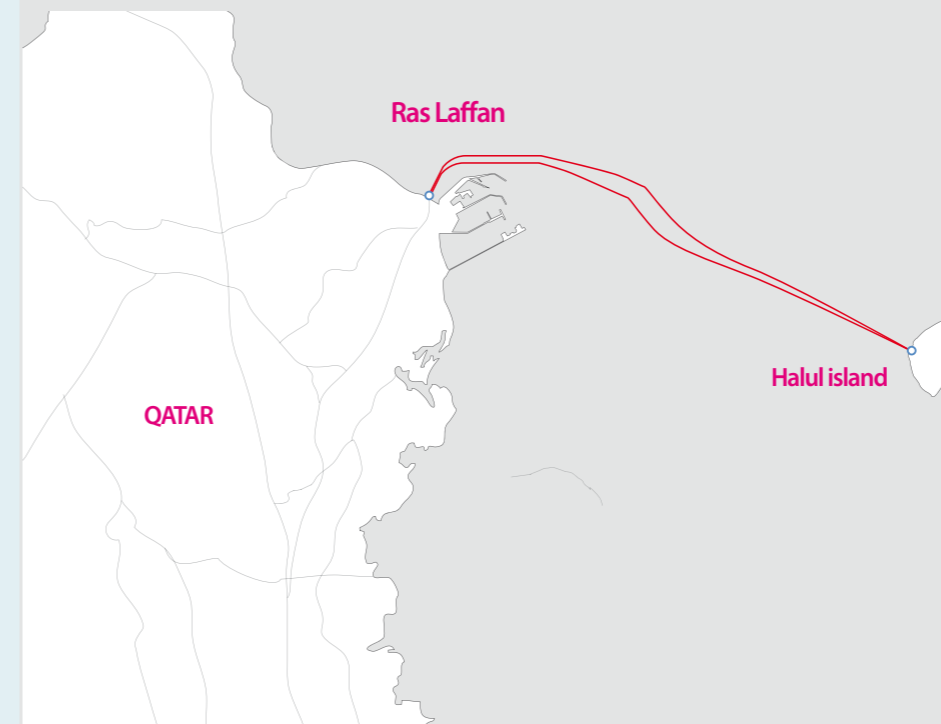
- Voltage DC 285kV
- Transmission Capacity 380MW
- Route Length 23.5km
- Water Depth Max. 35m



Project Experience_HVAC Interconnection Project

Ras Laffan –Halul island, Qatar

- Voltage AC 132kV
- Transmission Capacity 200MW
- Route Length 101km
- Water Depth Max. 35m





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