

An aerial night-time photograph of the Mediterranean Sea. The landmasses of Europe, North Africa, and the Middle East are visible, with city lights and some natural terrain features highlighted in a glowing yellow-green. Two white lines representing a cable route are shown crossing the sea from the coast of Libya in the northwest towards the coast of Greece in the southeast. The text 'GreenTaqa-Libya' is at the top, followed by 'Connecting Europe - Africa and Middle East' and 'Electricity & Telecom'. The label 'Libya-Greece Connector' is placed near the cable lines.

GreenTaqa-Libya

Connecting Europe - Africa and Middle East

Electricity & Telecom

Libya-Greece
Connector

LEG1 CONNECTOR SPECIFICATIONS

Mechanical details

- Subsea length ... 304 km
- Onshore length ... 60 km
- Total length 364 km
- Maxi water depth 2 500 m

Electrical details

- Power ... 2 000 MW
- HVDC Cables 2 X 1 000 MW
- Bipolar Configuration
- Voltage: 400>500 kV DC

DC cable does not present a danger to humans, animals or vegetation.



Note: Image by Nexans



GreenTaqa-Libya Solutions

Thermal Concentrated Solar Plant



Provide electricity 24/7 = 8,760 hours/year

Photovoltaic Solar Plant

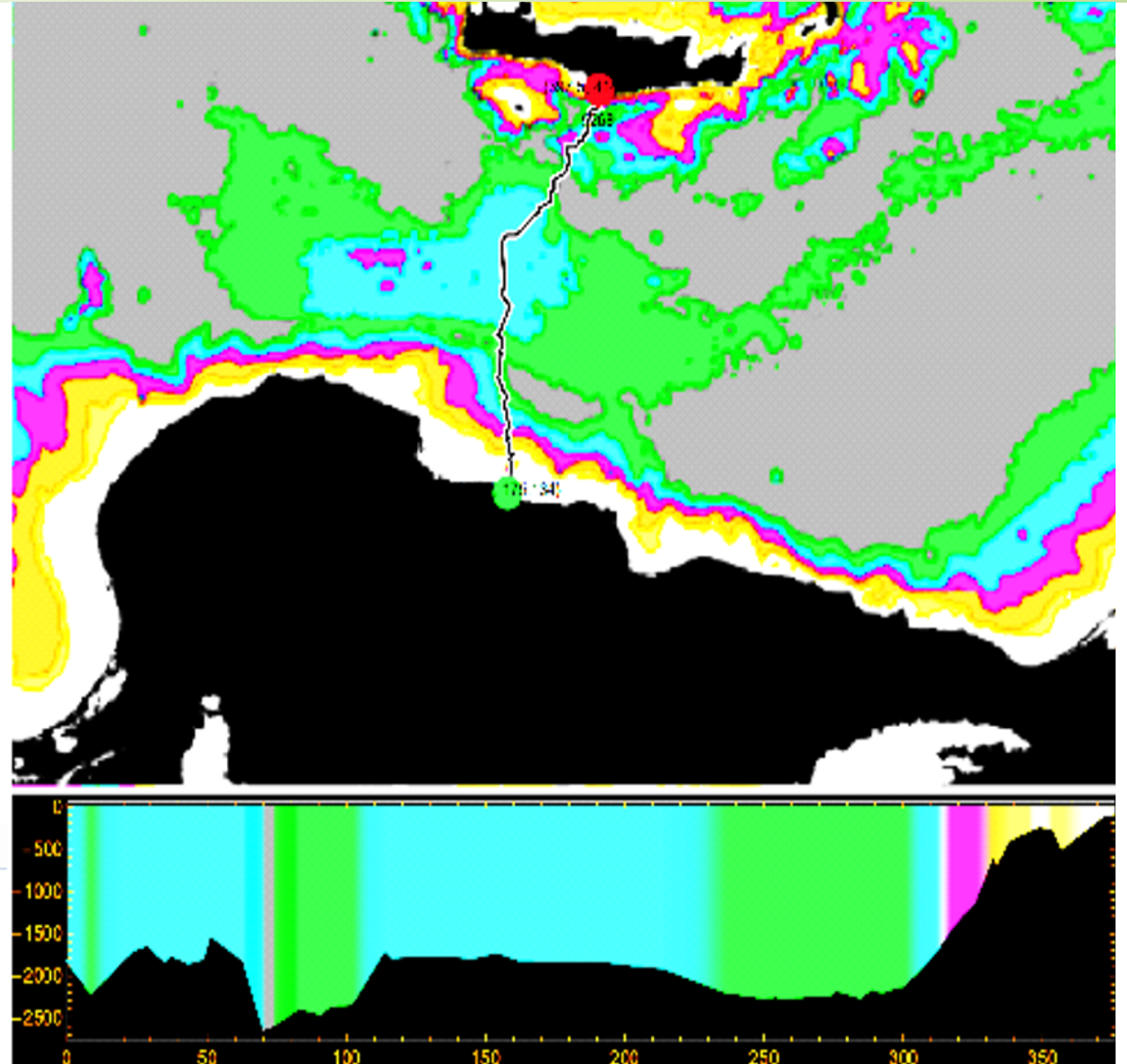


provides electricity 2.548 hours/year

by 2030, GreenTaqa-Libya plans to produce and exchange
4.000 MW between Europe, Africa & the Middle East

GreenTaqa-Libya (GTL) Software

- **GreenTaqa-Libya** have determined a 304 km route to connect Greece to Libya using their own **algorithm** (Mathematica platform, GEBCO and IFREMER datasets)
- Libya-Greece Connector's (LGC) maximum water depth of **2.500 m**
- **GTL's** world class engineering team have identified the **innovation** and **International partners** enabling the realization of LEG1 projects
- **GTL** shall propel its industrial partners and suppliers to the forefront of technical innovation and performance.

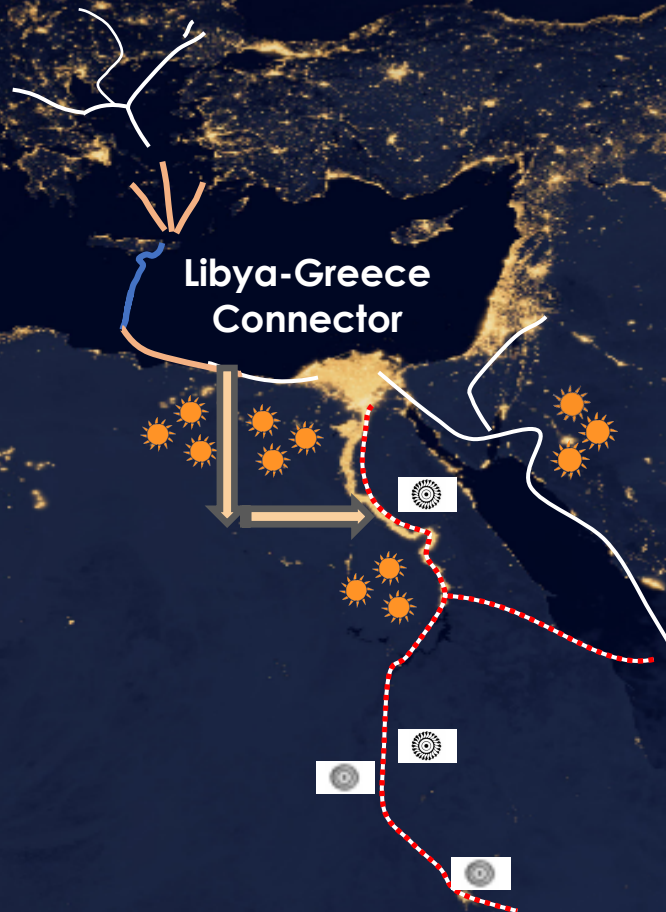


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GreenTaqa-Libya Links Europe-Africa and Middle East Electricity & Telecom



Greece-Libya, the Challenge of Inclusive Growth

Libya-Greece Connector based on the following advantages for both, for Europe, Africa & Asia :

- ✓ Diversification and securing of energy sources for Europe and MENA ;
- ✓ The promotion of the production and using of renewable energies ;
- ✓ CO2 reduction, millions of tons/year (the south consumes the unused electricity from north and vice versa) ;
- ✓ And billions of investment optimization between Europe, Africa & the Middle East (because one completes the other);



Greece-Libya Connector (LGC), the Challenge of Inclusive Growth

- ✓ **GreenTaqa-Libya** will decrease the price of the kWh;
- ✓ **LGC** will decrease the risks of oil spills, that is worth millions of tons will not cross the Mediterranean;
- ✓ **LGC** is candidate to be qualified as Project of Common Interest for Europe and the MENA region because of its attending Socio-Economic-Welfare
- ✓ By producing and exporting 4.000 MW solar energy, **GreenTaqa-Libya** will create a sustainable social & economic development and stability.



Centre of Excellence for Clean & Sustainable Energy

- Technical and Managerial, theoretical and practical training in Libya and abroad;
- Remote monitoring 24 hours a day, decision support, Small-Medium-larges Projects;
- Remote maintenance & technical support 24 hours a day, Statistics;
- Technological improvements: universities, industrial manufacturers, Associations...

Sabha Centre, twinned and connected with the Crete Centre of Excellence

Crete Centre, twinned and connected with Sabha Centre of Excellence



Libya-Greece, the Challenge of Inclusive Growth

- **GreenTaqa-Libya's** projects are in the framework of the European Commission's energy strategy to diversify and secure new energy sources and in the COP21 Paris Summit of the United Nations Framework Convention on Climate Change (UNFCCC).
- Libya Greece Connector interconnects Europe, Africa and the Middle East, as well as hundred of millions people sharing and exchanging the same electrical energy sources, Telecommunication and Data.
- **GreenTaqa Libya's** projects are a source of co-development, peace, and of US \$ billions of investment savings in both Europe, Africa and the Middle East. The neighboring region's energy seasonal needs complement each other.



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GreenTaqa-Libya projects comply with the recommendations of the United Nation Framework Convention on Climate Change (UNFCCC), the European Union's Energy Transition Program and are part of the Silk Road project of Chinese President Xi Jinping.