# AQUIND Interconnector

will link the British and French electric power grids to make energy markets more efficient, improve security of supply and reduce carbon emissions.

To take part in the consultation, please call our Freephone information line on 01962 893 869, or send an email to aquindconsultation@becg.com. You can visit our consultation website by clicking on the link below.

VISIT AQUIND CONSULTATION WEBSITE

AQUIND Interconnector is a new subsea and underground High Voltage Direct Current (HVDC) electric power transmission link between the South Coast of England and Normandy in France. By linking the British and French electric power grids it will make energy markets more efficient, improve security of supply and enable greater flexibility as power grids evolve to adapt to different sources of renewable energy and changes in demand trends such as the development

3% of the total consumption of Great Britain and France respectively, i.e. consumption by millions of households. The technology used for the interconnection will allow transmission of electricity in both directions. This will result in more efficient use of production capacities and better management of electricity consumption and production fluctuations. The interconnector will also be able to provide various services to the national system operators in both countries to help ensure safe and reliable operation of national electricity transmission systems. The project may also include fibre-optic data transmission cables laid together with the electric cables.

AQUIND Interconnector will use well-tested and reliable technology. Without overhead lines, AQUIND strives to achieve as low visual impact as practically possible.

AQUIND Interconnector is being developed without government subsidies. This will ensure additional security and diversity of energy supply, promote energy market competition and enhance value for energy consumers.

## AQUIND in Numbers

**2,000 MW**

NOMINAL CAPACITY

**16 TWh**

ELECTRICITY TRANSMITTED EACH YEAR

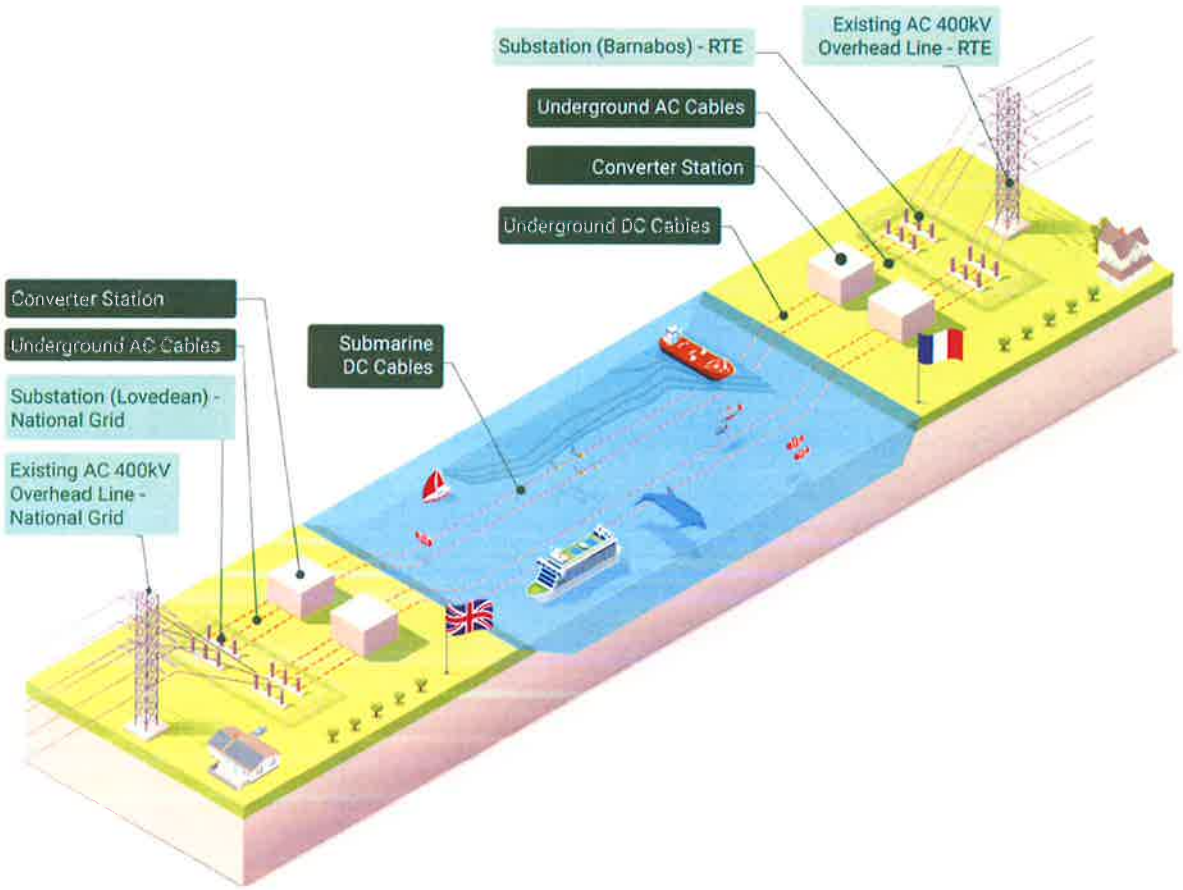
5%

OF BRITAIN'S TOTAL CONSUMPTION

3%

OF FRANCE'S TOTAL CONSUMPTION

# HVDC Interconnector




# High Voltage Direct Current

The distance between the connecting stations at Lovedean in Hampshire and Barnabos in Normandy renders the use of a simple Alternating Current (AC) connection impossible. Furthermore, it is essential that disturbances in one network do not affect the consumer power supply in the other network. For these reasons, the interconnector will utilise the High Voltage Direct Current (HVDC) technology. It provides the most controllable and efficient power connection between the networks while effectively de-coupling the networks in terms of disturbances that could affect consumers on each network.

The HVDC technology had been widely used for high power interconnectors since the 1950's but in the early 2000's a new generation Voltage Source Converter (VSC) based HVDC technology entered the market. It uses state-of-the-art power electronic converters and digital control systems to create computerised stations that convert AC power to DC power. The AQUIND converter


# Inside the Converter Station

At the heart of the Lovedean and Barnabos converter stations will be the latest generation of power electronic converters.

The converter features hundreds of sub-modules complete with redundant units. This maintains the station in service at full power even with multiple sub-modules out of service. A key design requirement for AQUIND Interconnector is a considerably high level of energy availability coupled with minimal maintenance requirements. To ensure that no single fault results in a complete loss

# Procurement

AQUIND Interconnector will create in the region of £1.2bn / €1.4bn of contract opportunities, and is now seeking interested parties to participate in the procurement event for the Engineering Procurement and Construction (EPC) Contracts as detailed below, via a voluntary OJEU Invitation to Negotiate Process. **Learn more ›**

## Data Cable

As part of the AQUIND Interconnector project, AQUIND will be deploying fibre optic infrastructure for protection and monitoring purposes. A fibre optic data transmission cable will be installed in a trench alongside and at the same time with each of the two power cable pairs both offshore and onshore. The spare data transmission capacity of such cables may be used to transfer data of third parties, providing further connectivity between France and England.

Demand for data transmission and, therefore, high-bandwidth, fast and reliable data transmission capacity is growing rapidly as services, technology and data uses continue to evolve. Meeting that demand is becoming increasingly important for economies and quality of life.

Using the latest subsea and optical technology, AQUIND will deliver high speed connectivity between England and France. Up to 180 "dark" fibres in each of the two data transmission cables may be available for third-party access enabling the high data transfer rates of up to 100 Gbps per fibre pair. The AQUIND fibre optic transmission link offers a shorter route than some of the existing systems, ensuring the low latency time of approximately 7.5ms. The system will be

Installation in the same trench as the power cables and alongside them, together with separation of the two cable systems, ensure consistent protection against fishing and anchor damage as well as natural hazards.

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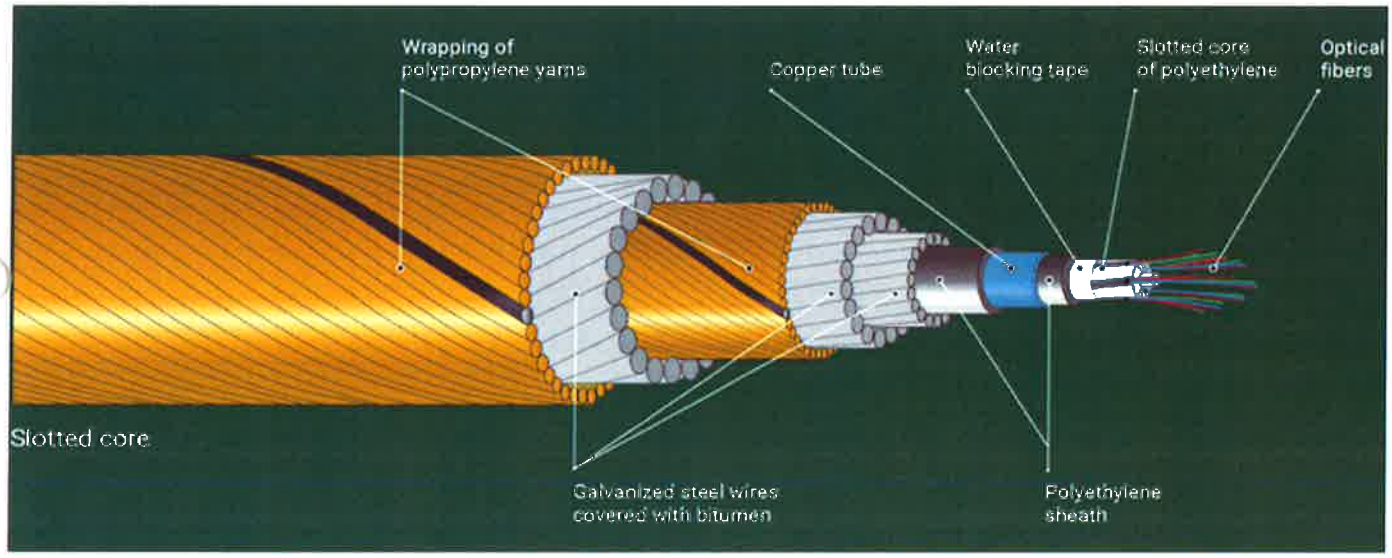


# HVDC Interconnector


No oil-based insulation is used in the design of these cables meaning no leakage in the event of damage to the cables. The submarine sections of the cables have additional armouring to provide mechanical protection as they are delivered off the back of a cable-laying vessel directly onto the seabed.

## Company Management

### Alexander Temerko

Director

Alexander is a prominent British industrialist, a vocal multilingual advocate and a believer in Great Britain as a high-tech hub for industries of the future.

deputy chairman of Newcastle-based OGN Group, an engineering, procurement and construction services provider to the North Sea offshore energy industry.

Alexander regularly contributes to major UK and international media on economic and political affairs.

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## Richard Glasspool (BA, FCA)

Director

A non-executive director with AQUIND Limited and a former Partner at KPMG Russia and CIS.

SEE MORE

## Kirill Glukhovskoy (LLM, MBA, ACMA)

Managing Director

Kirill has been leading the AQUIND Interconnector project since its inception in 2014.

Formerly a senior lawyer with major Russian energy companies and industrial heavyweights, he holds an MBA from the London Business School. Kirill has advised UK companies, including OGN Group, on corporate and business development and joined the board of Aquind Limited, the OGN Group renewables arm, in 2011. Following a corporate spin off, Kirill became Managing Director of the newly independent AQUIND Interconnector business in 2016.

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# Company news

18 November 2020 , Luxembourg

Learn more ›

12 August 2020 , London

**Reducing the Cost of Transition to 'Net Zero' for GB Consumers. Benefits of Increased Interconnection Between Great Britain and France**

Learn more ›

27 March 2020 , London

**AQUIND receives Ofcom's direction under section 106(3) of the Communication Act 2003 applying the electronic communications code.**

Learn more ›

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## In the media

BBC

Thursday 29 October, 2020

**Aquind Director, Richard Glasspool, has recently given an interview to a BBC programme (Politics South).**

In the interview Mr. Glasspool spoke about the benefits of AQUIND Interconnector and addressed some questions on cable installation in Portsmouth.

BBC

Friday 15 November, 2019

## Cross-Channel £1.1bn electricity link plan submitted by Aquind

Aquind said the link, known as an interconnector, would "make a significant contribution to the security of Great Britain's electricity supply and achieve greater affordability by improving competition".

**Learn more**

THE TELEGRAPH

Wednesday 14 August, 2019

## Brexit in a blaze of no-deal glory would leave the climate, consumers and the Tories worse off

Alexander Temerko, the Director of AQUIND, shares his opinion on the consequences of Brexit.

**Learn more**

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# Our Advisors

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## CONTACT INFORMATION

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