

Prysmian PowerLink – Press Kit



Powerlink

A Brand of Prysmian Group

Enabling
the energy
transition

Prysmian Group

Prysmian Group is world leader in the energy and telecom cables and systems industry. With almost 140 years of experience, sales of over €10 billion, about 28,000 employees in over 50 countries and 104 plants, the Group is strongly positioned in high-tech markets and offers the widest possible range of products, services, technologies and know-how. It operates in the businesses of underground and submarine cables and systems for power transmission and distribution, of special cables for applications in many different industries and of medium and low voltage cables for the construction and infrastructure sectors. For the telecommunications industry, the Group manufactures cables and accessories for voice, video and data transmission, offering a comprehensive range of optical fibres, optical and copper cables and connectivity systems. Prysmian is a public company, listed on the Italian Stock Exchange in the FTSE MIB index.

Founded as Pirelli Cavi in the late 19th century, **the Group grew through acquisitions:** the integration of the power cables business units of Siemens and Nokia, the acquisition of the Dutch group **Draka** and, finally, in 2018, the merger with the U.S. **General Cable** group. The various acquisitions made it possible to expand and innovate the range of products and services through the application of the highest standards and to extend the Group's geographical presence — a strength in serving the market's regional specific needs. Its development over the years underscores its **growing expertise, as well as technological and management capabilities, making it into an industry leader also in terms of operating efficiency.** Its operations are constantly driven by a set of strong beliefs that support the Group's ESG identity in what it does and in how it does it, as well as in its vision for the future.

140 years
OF EXPERIENCE

€12 BN
OF SALES

29,000
EMPLOYEES

108 plants
IN OVER **50** COUNTRIES

Prysmian PowerLink: the technology leader

The Group develops the most advanced turn-key submarine cable systems and solutions through Prysmian PowerLink Services Ltd.

Prysmian PowerLink is responsible for the **design, production and installation of high and extra high voltage cables and systems for the underground and submarine power transmission directly from power stations to primary distribution grids.**

Prysmian offers cutting-edge services for submarine power connections for offshore wind farms, ranging from project management to cable installation.

Prysmian has a fleet of four among the most state-of-the-art cable-laying vessels in the world and a wide range of high-tech burial tools, offering extended project versatility and deep-water installation capabilities of up to 3,000 m, as well as shallow water and near-shore solutions.

In addition to these four vessels, Prysmian Group can also count on a shallow water cable-laying barge, designed to operate in ultra-shallow water. The barge is equipped with a 4-point mooring system and a main pulling winch on the bow. The main tool onboard is a vertical injector, although the barge can be used for various other tools, including the SeaREX trencher for coastal operations.

The Group constantly invests in manufacturing capabilities and installation assets, always improving and innovating, offering new installation solutions that range from off-the-shelf equipment to bespoke designs. Our extensive track record means that our submarine cable installation expertise is second to none – we get the most of the resources at our disposal to ensure project efficiency and

safety at all times. From shallow water to deep water, from soft soils to hard soils, from single cable to bundled cables, Prysmian has the experience and assets to provide full-fledged cable installation solutions of any type.

Overall, we have installed **more than 30,000 miles of underground and submarine high voltage cable** — a distance greater than the circumference of the Earth — while respecting sustainable business practices.

Prysmian offers extensive technical expertise, leveraging its wide knowledge and historical experience in this industry, where the Group ensures its close and local support to customers throughout the project life cycle:



**ONE-STOP-SHOP SOLUTION
provider approach**



**TECHNOLOGY
leadership**



**INSTALLATION
capabilities**



**GLOBALLY
integrated organisation**

more than
30,000 miles

**OF UNDERGROUND AND
SUBMARINE HIGH VOLTAGE
CABLE**

Main interconnectors projects completed

WESTERN LINK - record voltage level of 600 kV (HVDC) project connecting Scotland, England and Wales. The Western Link is a **High Voltage Direct Current** project connecting Scotland, England and Wales. It reaches the record voltage of 600 kV, the highest class, for an insulated cable, ever put into operation in the world, allowing an **exchange of energy up to 2,250 MW**. The entire turnkey project was carried out in a consortium between Prysmian, responsible for the design, production, installation and commissioning of the cables, and Siemens, responsible for the HVDC converter stations.

IFA2 - the latest UK-France electricity interconnector The contract signed with IFA2 SAS was for the turn-key design, manufacture and installation of a submarine and land power cable link to connect Tourbe in France to Chilling in Hampshire (Great Britain). **The High Voltage Direct Current (HVDC) interconnection operates at ± 320 kV DC and allows up to 1000 MW of power to be transferred.** The HVDC cable system comprises approximately 25 km route length in France, running from Tourbe converter station in Northern France to the landing point close to Caen. The subsea route is just over 200 km and lands at the south coast of Great Britain at Solent Airport near Fareham where the converter station is located. In addition to the HVDC cable link, **the contract includes a High Voltage Alternating Current (HVAC) link** that connects the converter station to a local substation in Chilling, Great Britain. This includes 2 km land sections at each end with a 5 km subsea section between them.

ELECLINK - interconnecting the Channel through the Eurotunnel The project envisages the development of a power transmission link between the UK and France with a **capacity of a 1000 MW in either direction of flow**. The ElecLink HVDC cable link will increase the energy exchange between France and the UK contributing to the integration of energy markets and enabling access to diversified energy sources. **The project comprises a ± 320 kV extruded HVDC underground cable turnkey system** that includes the engineering, production and installation of one HVDC symmetrical monopole circuit along a 51 km route length to be installed into the Channel Tunnel.

NORTH SEA LINK - UK-Norway interconnector improving the grids efficiency The North Sea Link is the **longest submarine cable link ever created**, connecting Norway and the United Kingdom, covering a total distance of about 740 km. For this major project, Prysmian Group was responsible for both the supply and installation of a total of 950 km of submarine and terrestrial cables. **The project, worth a total of €2 billion, involved the construction of a submarine electricity interconnection with a capacity of 1,400 MW.**

CRETA PELOPONNESE & EVIA-ANDROS-TINOS - Record water depth installation The project involved the design, supply and installation, as well as completion of the related civil engineering works on dry land, of **two turnkey high-voltage alternating current (HVAC) cable systems, designed to transmit a power of 200 MVA and composed of 150 kV three-core cables with XLPE insulation and double wire armouring**, associated with a fibre optic cable system, along a total route of more than 18 km (16.5 km submarine and 2 km underground) for the interconnection between the four landing points (Evia-Andros and Andros-Tinos). The cable system will increase energy transmission between the Cyclades islands, ensuring solidity, reliability and sustainability.

ITALY/FRANCE - strategic HVDC land power transmission Prysmian Group has led a **grouping of 7 companies** for the construction of the new High-Voltage Direct Current (HVDC) electricity interconnection between Italy and France. The project consists of a **turnkey High-Voltage Direct Current (HVDC) underground cable (± 320 kV) with extruded insulation technology**. It included the engineering, production and installation of two double-core circuits of 600 MW each along a route of 190 km between the substations of Piossasco, near Turin (Italy) and Grand'Ile in Savoy (France) for a total of about 95 km on each side. Prysmian Group and Silec Cable supplied the High-Voltage Direct Current (HVDC) cables with extruded insulation.

New and ongoing interconnectors projects

GERMAN CORRIDORS - largest 2GW underground cable system from North to South Germany

The Group has been awarded contracts of **over €1.8 billion** for the projects SuedLink, SuedOstLink and A-Nord Corridor, which represent the main projects in the implementation of the energy transition through the supply of underground cable transmission systems for all three German projects. Our **± 525-kV cable systems** will link regions rich in renewable energy from northern Germany's wind farms to the main areas of consumption in the country's south.

SOO GREEN - 2,100-megawatt interregional project from Chicago to mid-Atlantic region

Prysmian announced that it had finalised a contract with SOO Green HVDC Link to supply and install HVDC cable systems for a **one-of-a-kind project: terrestrial energy transmission via existing railroad rights of way**. Conceived as the first link in a national clean energy grid, the 2,100-MW interregional project will connect two of the largest U.S. energy markets, providing large quantities of low-cost renewable energy to various urban centres, from Chicago to the mid-Atlantic region.

VIKING - first and world's longest submarine cable connection between the UK and Denmark

It is the first submarine cable interconnection between the UK and Denmark. Worth close to **€700 million**, the contract includes the **turn-key design, manufacture and installation of the world's longest power interconnector with 1,250 km of cables** for the entire submarine route and all approximately **135 km of land cables** on the UK route, corresponding to four of the five tender lots. The High Voltage Direct Current (HVDC) interconnector will operate at **± 525 kV** and will allow up to **1,400 MW** of power to be transferred between the two countries passing through UK, Dutch, German and Danish waters, using single-core, mass-impregnated paper-insulated cables. The HVDC cable system will connect the converter station located at Bicker Fen in Lincolnshire, UK, to the converter station located at Revsing in southern Jutland, Denmark, with the aim of increasing access to renewable and sustainable energy sources to **more than 1.4 million households**, reducing the cost of electricity in Great Britain and providing additional system reliability.

SAUDI EGYPT - transmitting energy between Egypt and Saudi Arabia

The Group has been awarded a contract for a **±500-kV HVDC** submarine and land cable system between the Arab Republic of Egypt and the Kingdom of Saudi Arabia worth around **€221 million**. The project was awarded to Prysmian Group by Egyptian Electricity Transmission Company (EETC) and Saudi Electricity Company (SEC). The new link will **facilitate strategic energy exchange** between the two countries and link the Gulf Cooperation Council (GCC) countries with the African continent.



Main Offshore wind projects completed

Offshore Wind farms – supporting OW development in Europe and worldwide

The Group develops the most advanced turn-key submarine cable systems and solutions through Prysmian PowerLink Services Ltd.

Prysmian Group is an all-around partner to the offshore wind industry, by both supporting the world's energy transition and building a better future for our planet and for our children. Thanks to an extraordinary rich track record of high-performance cables and solutions we have designed, manufactured and supplied to our customers, we are able to ensure energy is shared precisely where it is needed.

What sets us apart are our capabilities: we are the industry's single-source provider across a full suite of services. We have a long track record of developing tailor-made solutions for each offshore project, adding value and de-commoditising submarine cables. From engineering to procurement, construction and installation, through to turnkey land and submarine cable repair services and full-system asset management. Thanks to our **ongoing investments in R&D and a fully integrated supply chain** that includes manufacturing facilities and next-generation submarine installation assets, our international project management system aims at offering the simplest and most comprehensive option for end-to-end project execution and maintenance, wherever in the world. Moreover, everything we complete is fully HSE compliant.

Our successes include our 66 kV cable systems, which can enable **up to 15% cost savings for offshore wind farms compared to traditional 33 kV cables**, while supporting the development and growth of the offshore renewable market and the related sustainable energy supply.

And for Prysmian, innovation goes beyond cables.

We constantly introduce flexible and bespoke product solutions to support your increasingly specialist projects. Solutions such as our smart sensors, which offer live asset monitoring allowing for swift troubleshooting across your network. Now, you can not only proactively manage system health; you can also reduce the likelihood of network downtime – and that means a large cost saving, too.



New and ongoing Offshore wind projects

DOMINION ENERGY - the largest submarine cable project ever awarded in US

Prysmian Group secured the **largest ever awarded submarine cable**

contract in the US. The contract has been awarded by Dominion Energy Virginia, a subsidiary of Dominion Energy Inc., to a consortium made up of Prysmian and the DEME Group. The Balance of Plant (BoP) contract includes the complete package entailing the transportation and installation of the foundations and the substations and the EPCI (Engineering, Procurement, Construction, Installation) services for the inter-array and export cables for the future largest commercial offshore wind farm in the United States.

This project is **a major milestone for Prysmian Group, as it is the first cable company in the offshore wind industry to sign a Balance of Plant contract.** The total value of the contract is approximately €1.6 billion, of which around €630 million related to Prysmian for the cable supply and the installation works under its responsibility. The project is expected to be completed by 2026.

Prysmian Group will provide three 3-core 220kV HVAC export cables measuring approximately 62 km each, with XLPE insulation and single-wire armouring, for a total of approximately 560 km. The Company will also supply 320 km of 3-core 66kV offshore inter-array cables with XLPE insulation. **The CVOW project is crucial to helping the Commonwealth of Virginia meet its goal of becoming carbon neutral by 2045.** The offshore wind farm, made up of a total of 176 turbines, will be capable of supplying clean power to as many as 660,000 households.

SOFIA - high voltage submarine and land export cable connection for 1.4 GW

Located 195 km on the north-east coast of the United Kingdom, in the

central area of the North Sea known as Dogger Bank, the 1.4 GW Sofia offshore wind farm is the largest currently under construction by RWE Renewables. Prysmian Group will build a turnkey submarine and terrestrial high-voltage cable system **worth over €200 million.** The Group will be responsible for the design, supply, installation and commissioning of a symmetrical High-Voltage Direct Current (HVDC) single-core cable system that will connect the offshore substation to the onshore converter station at Teesside. The project includes over 440 km of ± 320 kV submarine cables with XLPE insulation and 15 km of ± 320 kV terrestrial cables with P-Laser insulation.

The offshore installation operations will be carried out with Leonardo da Vinci, Prysmian's new state-of-the-art cable laying vessel.

GRUISSAN - submarine export power cable system for France

Prysmian Group, in a consortium with Asso.subsea, a contractor

specialised in submarine installation, has signed a contract worth approximately **€30 million with RTE** (Réseau de Transport d'Électricité) for the development of an **export submarine cable system for the Gruissan floating offshore wind farm**, located in the south of France.

The Group will be responsible for the design, supply, connection, commissioning and testing of a 66 kV three-core export submarine cable with EPR insulation for a total of 25 km, together with other dynamic 66 kV submarine cables with EPR insulation for about 1 km, which will connect the coast to the floating substation. The Group will also supply another 3 km of 66 kV cables with XLPE insulation for the onshore section.

PROVENCE GRAND LARGE FLOATING - first French pre-commercial floating offshore wind farm, with innovative dynamic 66 kV submarine cables

the development of a turnkey submarine cable system. Prysmian will provide a **system that includes 3 km of dynamic submarine inter-array cables and 19 km of export cables for a total of 22 km**, as well as land cables for a route of 9 km. The project will use the innovative dynamic 66 kV submarine cables with EPR insulation.

Prysmian Group signed a letter of award with PGL (Provence Grand Large), a floating offshore wind farm located in the south of France, part of EDF Renewables, for

VINEYARD - submarine power cable system for the first US large scale offshore wind farm

for the Vineyard Wind 1 offshore wind farm. A milestone in the development of offshore wind farms in the United States, Vineyard will consist of a series of **62 wind turbines** and will **generate 800 megawatts of electricity annually, powering over 400,000 homes**.

Prysmian will be responsible for the design, manufacture, installation and commissioning of a HVAC (High Voltage Alternating Current) cable system composed of two 220 kV three-core cables with extruded XLPE insulation. **The route extends over 134 km of cables**. The submarine cables will be produced in Prysmian Group's centres of excellence for the production of submarine cables in Pikkala, Finland, and Arco Felice, Italy. Installation operations will be performed by Prysmian Group's cable laying vessel Cable Enterprise and Ulisse.

Prysmian Group has been recently awarded the notice to proceed for the about **€200-million contract** to supply a submarine cable system

