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Welcome to the monthly **HVDC-VSC** Newsletter!

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Power Electronics & Studies Department

Service Provider for Power System

THE TEAM

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Cables installation works at Cap Breton micro-tunnel for Biscay Gulf Interconnector, June 2026. Credit: LloydImages/RTE.

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2 GW France–Spain Link Advances Across Land and Sea

Civil works completed at both Biscay Gulf HVDC converter stations

Construction of the Biscay Gulf HVDC interconnector has reached 70% completion, with submarine cable laying and electromechanical installation at both converter stations having progressed throughout the summer. [1]



Figure 1: Converter station in Gatika, Spain (June 2026). Credit: Omexom [5]

At both converter stations in Gatika (Spain) and Cubnezais (France), civil engineering works are completed, and electromechanical equipment installation is underway [1][4]. The four landing points, including the final one at Lemoniz (Spain), using horizontal directional drilling (HDD) beneath the coastline, have been commissioned [2][3].



Figure 2: Converter station in Cubnezais, France (June 2026). Credit: RTE/Simethis

The first offshore cable-laying campaign on the Spanish side, carried out by NKT using the CLV *Victoria*, saw 65 km of subsea cable laid from August 2026 [3]. On the French side, Prysmian's CLVs *Monna Lisa* and *Leonardo da Vinci* began work in May and June, covering the landfall points and offshore sections. In total, four parallel subsea cables will be laid. As such, further subsea operations are still planned as part of several campaigns between the two coasts until next summer [2][4]. Commissioning is scheduled for early 2028. [4]

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[3] https://lnkd.in/p/ei5xWtHX
[4] https://www.rte-france.com/projets/nos-projets/golfe-de-gascogne
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South Korea Pushes Ahead with HVDC Equipment Localisation

Hyosung wins KEPCO valve slot for 2 GW West Coast HVDC project

Hyosung Heavy Industries has been selected for the "*valves and controllers*" category of KEPCO's localisation and demonstration programme for large-capacity voltage-source HVDC systems. [6]

This programme aims to localise 2 GW, 525 kV VSC-HVDC equipment for Korea's **West Coast Energy Expressway**, a national project designed to transmit renewable energy from the Honam region to the Seoul region via four submarine interconnectors totalling over 1,000 km of cable and an 8 GW capacity. The technical specifications for the first project, the **Saemangeum–Seohwaseong** VSC-HVDC link, due for completion in 2030, were drawn up by Hitachi Energy under a consultancy contract with KEPCO. [7][8]

Hyosung, which supplied a 200 MW VSC-HVDC converter to the Yangju substation in 2024, has been selected for the converter valves and controllers category, thanks to IGBT-based technology developed following a demonstration carried out in Jeju in 2012. Three other domestic companies (HD Hyundai Electric, LS Electric and Iljin Electric) are also participating in this programme, which aims to localise the production of converter transformers by the end of 2027 and deploy them in the field in 2028. [6][8]

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[6] https://www.hyosung.com/kr/newsroom/view/19335
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World's First 800 kV HVDC-VSC Transmission Line in China

Gansu-Zhejiang 800 kV HVDC project crosses the Yellow River

The ±800 kV Gansu-Zhejiang UHVDC interconnector project in China, with a capacity of 8 GW, is entering its final phase of construction. Stretching 2,370 km, the line will connect the Wuwei converter station in Gansu to the Shaoxing converter station in Zhejiang, crossing six provinces and regions: Gansu, Ningxia, Shaanxi, Henan, Anhui and Zhejiang. [9]



Figure 3: Crossing of the 800 kV HVDC overhead line of the Gansu-Zhejiang project over the Yellow River, Gansu province, China. Credit: Xinhua News Agency, Gansu channel

In September, the completion of the Yellow River crossing marked the end of work on the Gansu section [10]. Furthermore, the Ningxia and Shaanxi sections were also completed this month [11][12], whilst the Zhejiang sections were completed last April [13]. The final two sections in Henan and Anhui remain to be finalised, as no public confirmation of their completion has been identified.

At the Wuwei converter station (Gansu), the installation of electrical equipment is under way following the arrival of nine conversion transformers, whilst work continues on the DC-yard and the valve hall [14].



Figure 4: Wuwei converter station, Gansu province, China. Credit: State Grid Gansu Electric Power Company

The information available on the Yuezhou converter station (Zhejiang) indicates that the steel structures of the conversion buildings have been erected [15], and that the AC system and four 500 kV network connections were energised during the spring [16].

Launched in July 2024, the project is due to be fully commissioned in 2027. It will be the world's first 800 kV UHVDC project to utilise VSC technology at both ends. [9]

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€2.5bn Contract to Build HVDC Platform in Northern Germany

NSORe wins the contract for the LanWin3 HVDC platform

50Hertz has signed a contract with the NEPTUN SMULDERS Offshore Renewables (NSORe) consortium and Siemens Energy for a 2 GW offshore conversion platform as part of the LanWin3 HVDC offshore grid connection project in Germany. This is the second contract of this type for the consortium following the LanWin6 contract, awarded in June 2026. [17]

NSORe will be responsible for the overall system design, procurement, construction and installation; Siemens Energy will supply the high-voltage components. The topside will be built at the Neptun Werft shipyard in Rostock-Warnemünde, Germany, whilst Smulders will manufacture the steel jacket in Vlissingen, the Netherlands. In total, the two NSORe contracts are worth approximately €2.5 billion. [17]

The LanWin3 and LanWin6 onshore converter stations will be connected via the NordOstLink HVDC transmission corridor and a multi-terminal DC hub located in Heide, Schleswig-Holstein. [17]

References:

[17] https://www.50hertz.com/en/News/FullarticleNewsof50Hertz/18280/successful-contract-signing-another-offshore-converter-platform-to-be-built-in-rostock

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Ørsted's 2.9 GW Offshore Wind Project Moves Ahead

Second Hornsea 3 offshore converter platform installed at sea

Ørsted has announced the offshore installation of the second HVDC conversion platform for the Hornsea 3 project, a 2.9 GW offshore wind farm being developed 120 km off the coast of Norfolk, UK. The project will be connected to the UK grid via two 320 kV HVDC-VSC links (Link 1 and Link 2). [18]

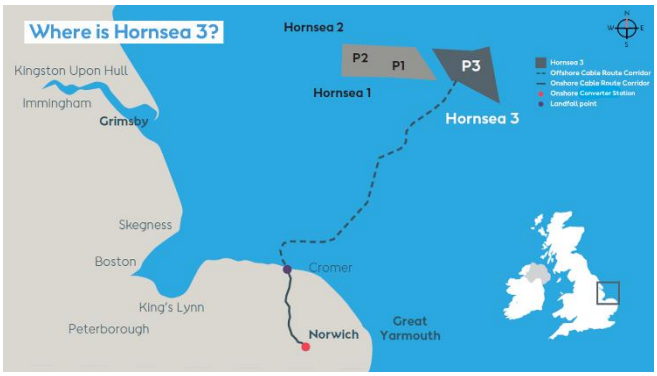


Figure 5: Hornsea 3 project map. Credit: Ørsted

The converter platforms, supplied by Aibel and Hitachi Energy, were built at Map Ta Phut in Thailand and then transported by sea over 13,000 nautical miles to Haugesund in Norway, where the HV equipment was installed. The jacket structures supporting the platforms were manufactured by Heerema Fabrication Group in Vlissingen in the Netherlands. Their transport and installation at sea were carried out by Heerema Marine Contractors, notably using the crane vessel *Sleipnir*. [18]



Figure 6: Offshore installation of the second Hornsea 3 platform, September 2026. Credit: Ørsted [18]

As for the cables, the first HVDC export cable, manufactured by NKT and laid by Jan De Nul, was installed in March 2026. The second system was planned to be installed during the summer of 2026. Meanwhile, the installation of the wind turbine foundations began in May 2026 with the installation of the first of 197 monopiles. The installation of the 14 MW Siemens Gamesa wind turbines is due to follow as the foundations become available. [19][20]

Onshore, the converter stations near Swardeston, in Norfolk, are continuing with commissioning work. For Link 1, all valves have been installed, the coolant has been circulated, the connection and testing of the high-voltage cables have been completed, and the transformers are undergoing final commissioning. For Link 2, three of the four transformers are in place and the installation of the valves has been completed. Mechanical and electrical fit-out work is continuing, with commissioning scheduled for Q2 2027. [21]



Figure 7: Hornsea 3 onshore converter station (Link 1), August 2026. Credit: Ørsted [21]

The 54 km onshore route between the cable landing point at Weybourne and Swardeston is also nearing completion. Work on laying cables in conduits and horizontal drilling has been completed, 50 of the 51 joint bays are finished, and site restoration has been carried out in 72 areas. [22]

Hornsea 3 is scheduled for completion in the winter of 2027/28. [21]

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Germany Prepares 4 x 2 GW Underground HVDC Corridor

Amprion presents proposed Rhine-Main Link route

German transmission system operator Amprion has presented its proposed route for the **Rhine-Main Link** between Diemelstadt and Lichtenfels in the Waldeck-Frankenberg district of Hesse. The proposed alignment forms part of the Rhine-Main Link, an underground energy corridor that will bundle four 2 GW HVDC onshore connections to transport renewable electricity from northern Germany to the Rhine-Main region. [23][24]

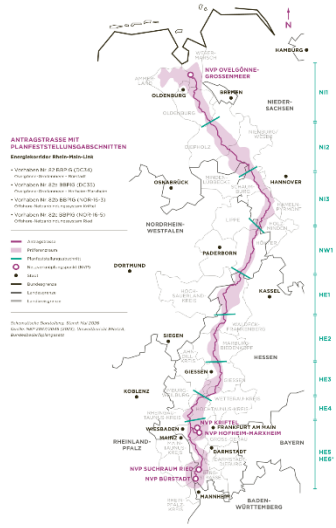


Figure 8: Rhine-Main Link route. Credit: Amprion

The route of the 600 km Rhine-Main Link has been divided into ten planning approval sections, which will be planned and approved independently to account for local conditions and objections. The proposed route was developed from a 250 m wide corridor submitted to the Federal Network Agency (BNetzA) in summer 2024. Public consultation sessions were subsequently held to gather observations and impose additional requirements regarding the authorisation and the underground cable link construction. [23]

Following this, Amprion presented the Diemelstadt-Lichtenfels route at seven public information events held during September 2026, where participants could examine affected land parcels using a geographical information system. Amprion plans to submit the approval documents for all planning sections to BNetzA by the end of 2026. [23][25]

The four HVDC projects bundled within the Rhine-Main Link will provide a combined transmission capacity of 8 GW, with the first project, DC34, planned for commissioning in 2033. [24][25]

References:

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[24] https://www.amprion.net/Netzausbau/Unsere-Projekte/Rhein-Main-Link/
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Providing Tools for European AC/DC Hybrid Grids

HVDC-WISE concludes a four-year European R&D project

HVDC-WISE is a four-year European research project, funded by the EU's "*Horizon Europe*" programme and UK Research and Innovation, which aims to develop tools, models and recommendations for the reliable and resilient deployment of hybrid AC/DC grids across Europe and the UK. [26][28]

The project has resulted in the development of an open library of HVDC models, innovative concepts for AC/DC hybrid network architecture, a suite of planning tools focused on reliability and resilience, as well as control and protection approaches, validated in "Hardware-in-the-Loop" (HIL) environments across three European use cases: continental Europe, Great Britain and the North Sea offshore grid. During its final year, the project expanded the open-source planning tools and enhanced the simulation of cascading faults as well as reliability analysis. [26][27][28]

On 23 September 2026, the HVDC-WISE project officially concluded with the publication of its final results and a summary video of the project. [26]

Its conclusions highlight the standardisation of models, the development of tools and grid regulation as priorities for the sector. The open-source tools and resulting recommendations provide a basis for the design and operation of hybrid AC/DC transmission grids, promoting the integration of renewable energy, reducing losses and strengthening energy exchanges across Europe. [26]

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South Korean Cable Company Builds a High-Capacity CLV

LS Marine Solution kicks off construction of a cable-laying vessel

South Korean company LS Marine Solution has ordered the construction of a high-capacity cable-laying vessel (CLV), signing a contract with the Tersan shipyard in Turkey in June 2025 [29]. A year later, the companies announced the steel-cutting ceremony for the cable-laying vessel NB1139, named *InterOcean*, at the Tersan shipyard in Turkey, marking the official start of production [30].



Figure 9: CLV steel-cutting ceremony at Tersan shipyard in Turkey. Credit: Tersan Shipyard

Designed by the Norwegian firm Salt Ship Design, the vessel will measure 148.4 m x 31 m, have a cable carousel capacity of 13,000 tonnes, a total displacement of 18,800 tonnes and be able to accommodate up to 100 crew members. [30]

Capable of simultaneously laying HVAC and HVDC submarine cables as well as fibre-optic cables, the *InterOcean* will be the largest CLV in Asia, the only Korean vessel dedicated to the installation of HVDC cables, and will rank among the top five in the world in terms of cable-laying capacity. [30]



Figure 10: Illustrative overview of the InterOcean vessel. Credit: Salt Design

The contract for the construction of this vessel is worth approximately €221 million, and delivery is scheduled for the first half of 2028. [30]

References:

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Boosting HVDC Cable Current Transmission Capacity

NKT certifies a 525 kV HVDC cable for operation at 90 °C

NKT has certified a 525 kV extruded XLPE HVDC subsea cable system, designed for continuous operation at a conductor temperature of up to 90 °C. [31]

This increase in operating temperature is made possible by an improved insulation system incorporating the new *Borlink LE0650DC* semi-conductive material from Borouge International, developed as part of a long-term collaboration with NKT. This breakthrough enables the deployment of cost-effective solutions within existing HVDC infrastructure, thereby offering operators greater flexibility in the design and operation of cable systems. [31]



Figure 11: 525 kV DC cable test bench at 90 °C. Credit: NKT

NKT's 90°C technology portfolio covers HVDC power cables and their accessories at voltage levels of up to 525 kV, for both onshore and offshore installations. This certification expands NKT's range of HVDC cable systems to include offshore wind connections, hybrid interconnections and future intercontinental transmission lines with increased transmission capacity, made possible by the higher conductor temperature. [31]

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Overview of HVDC-VSC Systems

Operational systems

Reference: VSC-HVDC Newsletter 06-2022, Prof. Mike Barnes. Supplemented and continuously updated by RTE international. New updates for this month are highlighted in **blue**.

	Name	Year commissi-oned	Power (MW)	Voltage DC (kV)	Voltage AC (kV)	Transmission Length (km)	Converter Manufacturer	Reference
1	Hällsjön, Sweden	1997	3	±10	10	10 OHL	ABB	https://www.hitachienergy.com/about-us/customer-success-stories/hallsjon-the-first-hvdc-light-transmission
2	Gotland, Sweden	1999	50	±80	77	70 underground	ABB	https://www.hitachienergy.com/about-us/customer-success-stories/the-gotland-hvdc-link
3	Eagle Pass, USA	2000	36	±15.9	138	Back-to-Back	ABB	https://www.hitachienergy.com/about-us/customer-success-stories/eagle-pass
4	Direct Link / TerraNora, Australia	2000	3x60	±80	132/110	65 underground	ABB	https://www.hitachienergy.com/about-us/customer-success-stories/terranora-interconnector
5	Tjaereborg, Denmark	2000	7,2	±9	10,5	4.3 underground	ABB	https://www.hitachienergy.com/about-us/customer-success-stories/tjaereborg
6	Murraylink, Australia	2002	220	±150	132/220	180 underground	ABB	https://www.hitachienergy.com/about-us/customer-success-stories/murraylink
7	Cross Sound, USA	2002	330	±150	345/138	40 subsea	ABB	https://www.hitachienergy.com/about-us/customer-success-stories/cross-sound-cable
8	Troll A 1&2, Norway	2005	2x44	±60	56/132	70 subsea	ABB	https://www.hitachienergy.com/about-us/customer-success-stories/troll-a
9	Estlink-1, Estonia-Finland	2006	350	±150	400/330	74 subsea 31 underground	ABB	https://www.hitachienergy.com/about-us/customer-success-stories/estlink
10	Caprivi Link, Namibia	2010	300	±350	330/400	950 OHL	ABB	https://www.hitachienergy.com/about-us/customer-success-stories/caprivi-link
11	Trans Bay Cable, USA	2010	400	±200	230/138	85 subsea	Siemens	http://www.transbaycable.com/
12	Valhall, Norway	2011	78	-150	11/300	292 subsea	ABB	https://www.hitachienergy.com/about-us/customer-success-stories/valhall
13	Nanhui, China	2011	18	±30	35/35	8.4 underground	C-EPRI	https://www.iere.jp/contents/Activities/Workshop/Nanjing_Workshop/Abstract/S2-1.pdf
14	BorWin1, Germany	2012	400	±150	170/380	125 subsea 75 underground	ABB	https://www.hitachienergy.com/about-us/customer-success-stories/borwin1
15	Nan'ao Island, China	2013	200, 150, 50	±160	110	Multi-terminal underground	RXHK, XiDian, NR-Electric	https://www.rxhk.co.uk/solutions/smart-vsc-hvdc-transmission/smart-vsc-hvdc-transmission/nanao-multi-terminal-vsc-hvdc/
16	East West Interconnector, Ireland-UK	2013	500	±200	400/400	186 subsea 75 underground	ABB	https://www.hitachienergy.com/about-us/customer-success-stories/east-west-interconnector

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	Name	Year commissi-oned	Power (MW)	Voltage DC (kV)	Voltage AC (kV)	Transmission Length (km)	Converter Manufacturer	Reference
17	Zhoushan, China	2014	400 300 3x100	±200	110/220	129 subsea	XuJi Electric, NR Electric	https://www.tdworld.com/digital-innovations/article/20969421/china-upgrades-capacity-to-the-zhoushan-islands
18	Mackinac, USA	2014	200	±71	138/138	Back-to-Back	ABB	https://www.hitachienergy.com/about-us/customer-success-stories/mackinac
19	Skagerrak 4, Norway-Denmark	2014	700	±500	400/400	140 subsea 104 underground	ABB	https://www.hitachienergy.com/about-us/customer-success-stories/skagerrak
20	INELFE, France-Spain	2015	2x1000	±320	400/400	65 underground	Siemens	https://www.inelfe.eu/en/projects/baixas-santa-llogaia
21	Åland, Finland	2015	100	±80	110/100	158 subsea	ABB	https://www.hitachienergy.com/about-us/customer-success-stories/aland
22	HelWin1, Germany	2015	576	±250	155/400	85 subsea 45 underground	Siemens	https://www.tennet.eu/projects/helwin1 https://www.realwire.com/releases/Successful-Commissioning-Of-BorWin2-And-HelWin1-HVDC-Grid-Connections
23	HelWin2, Germany	2015	690	±320	155/400	85 subsea 45 underground	Siemens	https://www.tennet.eu/projects/helwin2
24	Troll A 3&4, Norway	2015	2x50	±60	66/132	70 subsea	ABB	https://www.hitachienergy.com/about-us/customer-success-stories/troll-a
25	SylWin1, Germany	2015	864	±320	155/400	160 subsea 45 underground	Siemens	https://www.tennet.eu/projects/sylwin1
26	BorWin2, Germany	2015	800	±300	155/400	125 subsea 75 underground	Siemens	https://www.tennet.eu/projects/borwin2
27	Dolwin1, Germany	2015	800	±320	155/380	75 subsea 90 underground	ABB	https://www.hitachienergy.com/about-us/customer-success-stories/dolwin1
28	Xiamen, China	2015	1000	±320	220	6 subsea 5 underground	C-EPRI	https://ieeexplore.ieee.org/document/7800677 https://www.power-technology.com/marketdata/xiamen-mainland-xiamen-island-hvdc-line-china/
29	Luxi, China	2016	1000	±350	500	Back-to-Back	China Southern Grid, RXHK (Yunnan) XD Group/IEECAS (Guangxi)	https://hvdcnewschina.blogspot.com/2017/09/luxi-hybrid-btb-converter-station.html https://www.rxhk.co.uk/solutions/smart-vsc-hvdc-transmission/smart-vsc-hvdc-transmission/yunnan-luxi-b2b/
30	NordBalt, Sweden-Lithuania	2017	700	±300	400/330	400 subsea 40+10 underground	ABB	https://www.hitachienergy.com/about-us/customer-success-stories/nordbalt
31	DolWin2, Germany	2017	916	±320	155/380	90 subsea 45 underground	ABB	https://www.hitachienergy.com/about-us/customer-success-stories/dolwin2
32	Johan Sverdrup Phase 1, Norway	2018	100	±80	33/300	200 subsea	ABB	https://www.hitachienergy.com/about-us/customer-success-stories/johan-sverdrup

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	Name	Year commissi-oned	Power (MW)	Voltage DC (kV)	Voltage AC (kV)	Transmission Length (km)	Converter Manufacturer	Reference
33	Caithness Moray, UK	2018	800/ 1200	±320	230/400	113 subsea 37 OHL	ABB	https://www.hitachienergy.com/about-us/customer-success-stories/caithness-moray-hvdc-link
34	Maritime Link, Canada	2018	500	±200	230/345	180 subsea 187 OHL	ABB	https://www.hitachienergy.com/about-us/customer-success-stories/maritime-link
35	DolWin3, Germany	2018	900	±320	155/400	83 subsea 78 underground	GE	https://www.tennet.eu/projects/dolwin3
36	New Hokkaido-Honshu pole 1, Japan	2019	300	250	275	24 underground 98 OHL	Toshiba	https://www.global.toshiba/ww/news/energy/2019/03/news-20190328-02.html
37	Yu'E, China	2019	4x1250	±420	/	Back-to-Back	RXHK, XuJi Electric and C-EPRI	https://www.rxhk.co.uk/solutions/smart-vsc-hvdc-transmission/smart-vsc-hvdc-transmission/yue-b2b-hvdc/ https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=8779807
38	COBRAcable, Denmark-Netherlands	2019	700	±320	400/400	307 subsea 22 underground	Siemens	https://en.energinet.dk/infrastructure-projects/finished-projects/cobracable/
39	BorWin3, Gemany	2019	900	±320	155/400	130 subsea 30 underground	Siemens	https://www.tennet.eu/projects/borwin3
40	Nemo Link, UK-Belgium	2019	1000	±400	400/380	130 subsea 10 underground	Siemens	https://www.nemolink.co.uk/
41	ALEGrO, Germany-Belgium	2020	1000	±320	380/380	90 underground	Siemens Energy	https://www.amprion.net/Grid-expansion/Our-Projects/ALEGrO/
42	Zhangbei Phase 1, China	2020	2x3000 2x1500	±535	500/500	Multi-terminal 666 OHL	NR Electric, XuJi Electric, C-EPRI, SiFang and Hitachi ABB	https://nrec.com/en/web/upload/2019/05/13/155770883678038egom.pdf https://www.hitachienergy.com/about-us/customer-success-stories/zhangbei https://news.bjx.com.cn/html/20180327/888109-1.shtml
43	Kriegers-Flak Combined Solution, Germany-Denmark	2020	410	±140	150/400	Back-to-Back	Hitachi ABB	https://www.50hertz.com/en/Grid/Griddevelopement/Concludedprojects/CombinedGridSolution https://www.hitachienergy.com/about-us/customer-success-stories/kriegers-flak-combined-grid-solutions--kf-cgs--hvdc
44	NordLink, Norway-Germany	2020	1400	±525	400/380	516 subsea 54 underground 53 OHL	Hitachi ABB	https://www.hitachienergy.com/about-us/customer-success-stories/nordlink
45	KunLiuLong / Wudongde CSG, China	2020	5000 3000	±800	525	1452 for three terminals OHL	RXHK, Xuji, TBEA, NARI, Xidian	https://www.rxhk.co.uk/corporate/news/wudongde-uhvdc-scheme-commercial-operation/
46	IFA2, UK-France	2021	1000	±320	400/400	240 subsea	Hitachi ABB	https://www.hitachienergy.com/about-us/customer-success-stories/ifa2 https://ifa1interconnector.com/ifa2/

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	Name	Year commissi-oned	Power (MW)	Voltage DC (kV)	Voltage AC (kV)	Transmission Length (km)	Converter Manufacturer	Reference
47	SW Link, Sweden	2021	2x720	±300	400	190 underground 60 OHL	GE	https://www.gegridsolutions.com/products/applications/HVDC/South-West-Link-HVDC-case-study-EN-2015-10-Grid-PEA-0574.pdf https://www.svk.se/sydvastlanken
48	Rudong offshore wind farm, China	2021	1100	±400	220/500	100 subsea	RXHK, XJ Group	https://www.rxhk.co.uk/corporate/news/rudong-owf-hvdc-link-goes-live/ https://www.nrec.com/en/index.php/about/newsInfo/107.html
49	North Sea Link, Norway-UK	2021	1400	±515	420/400	720 subsea	Hitachi ABB	https://www.hitachienergy.com/about-us/customer-success-stories/nsl-link http://www.northsealink.com/
50	Pugalur-Thrissur, India	2021	2x1000	±320	400	32 underground 170 OHL	Siemens Energy	https://assets.siemens-energy.com/siemens/assets/api/uuid:a6cb3b5d-ac70-41e9-8b9a-21e0968937b8/2021-11-24-hvdc-referenceflyer.pdf https://www.nsenergybusiness.com/projects/raigarh-pugalur-trichur-high-voltage-direct-current-hvdc-transmission-project/
51	ElecLink, UK-France	2022	1000	±320	400/400	51 subsea	Siemens Energy	http://www.eleclink.co.uk/
52	Guangdong B2B, Guangzhou and Dongguan, China	2022	4x1500	±300	/	Back-to-back	RXHK, NR Electric	https://www.rxhk.co.uk/solutions/smart-vsc-hvdc-transmission/smart-vsc-hvdc-transmission/guangdong-b2b-hvdc/ https://www.nrec.com/en/index.php/about/newsInfo/117.html http://global.chinadaily.com.cn/a/202206/14/WS62a7f8a3a310fd2b29e629e8.html
53	Baihetan-Jiangsu UHVDC, China	2022	3x1334	±400	510	2080 OHL	RXHK, NR-Electric, C-EPRI	https://www.rxhk.co.uk/corporate/news/baihetan-jiangsu-uhvdc-transmission-project-contract-award/ https://nrec.com/en/index.php/about/newsInfo/125.html http://news.jschina.com.cn/qyxw/202207/t20220706_3031103.shtml
54	Johan Sverdrup Phase 2, Norway	2022	200	±80	110/300	200 subsea	Siemens Energy	https://energy.ec.europa.eu/system/files/2020-05/10._sharifabadi_kamran_-_multivendor_hvdc_links_supplying_oil_and_gas_installations_0.pdf
55	Savoie-Piedmont, Italy-France	2022	2x600	±320	/	190 underground	GE	https://www.rte-france.com/en/projects/savoie-piemont-190-km-of-european-solidarity-from-chambery-to-turin https://www.gegridsolutions.com/products/applications/hvdc/france-italy-hvdc-link-casestudy-en-2018-02-grid-pea-1641.pdf
56	DolWin6, Germany	2023	900	±320	/	45 subsea 45 underground	Siemens Energy	https://www.tennet.eu/projects/dolwin6
57	Viking Link, UK-Denmark	2023	1400	±525	400/400	630 subsea 135 underground	Siemens Energy	http://viking-link.com/
58	Dogger Bank A, UK	2023	1200	±320	66/420	205 subsea 19 underground	Hitachi Energy	https://www.hitachienergy.com/news-and-events/customer-stories/dogger-bank
59	Yangju VSC, South Korea	2024	200	±120	154/154	Back-to-back	Hyosung Heavy Industries	https://www.koreaittimes.com/news/articleView.html?idxno=133145

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	Name	Year commissi-oned	Power (MW)	Voltage DC (kV)	Voltage AC (kV)	Transmission Length (km)	Converter Manufacturer	Reference
60	Shetland, UK	2024	600	±320	132	267 subsea	Hitachi Energy	https://www.hitachienergy.com/about-us/customer-success-stories/shetland https://www.ssen-transmission.co.uk/projects/project-map/shetland/
61	Wando-DongJeju Jeju Island, South Korea	2024	200	±150	154/154	100 subsea	Hitachi Energy	https://www.hitachienergy.com/about-us/customer-success-stories/wando-dongjeju-3-hvdc-converter-station-project
62	Greenlink, UK-Ireland	2024	500	±320	400/220	160 subsea 30 underground	Siemens Energy	https://www.greenlink.ie/
63	Dogger Bank B, UK	2024	1200	±320	66/420	205 subsea 19 underground	Hitachi Energy	https://www.hitachienergy.com/news-and-events/customer-stories/dogger-bank
64	Crete-Attica, Greece	2025	1000	±500	150/400	335 subsea 30 underground	Siemens Energy	https://www.ariadne-interconnection.gr/en https://www.siemens-energy.com/global/en/home/press-releases/siemens-hvdc-power-bridge-will-connect-crete-mainland-greece.html
65	DolWin5, Germany	2025	900	±320	66/380	100 subsea 30 underground	Hitachi Energy	https://www.tennet.eu/projects/dolwin5 https://www.hitachienergy.com/about-us/customer-success-stories/dolwin-5
66	Quebec - New England (NECEC) interconnection, Canada-USA	2026	1200	±320	735/345	333 OHL	Hitachi Energy	https://www.iberdrola.com/about-us/what-we-do/smart-grids/necec-project-canada-united-states-and-new-england https://www.hydroquebec.com/projects/appalaches-maine-interconnection/ https://www.hitachienergy.com/news-and-events/customer-stories/new-england-clean-energy-connect
67	Kudus-Aarey, Mumbai, India	2026	1000	±320	220/400	50 underground 20-30 OHL	Hitachi Energy	https://www.hitachienergy.com/about-us/customer-success-stories/mumbai
68	Champlain Hudson Power Express, USA	2026	1250	±400	735/345	330 subsea 220 underground	Hitachi Energy	https://chpexpress.com/ https://www.hitachienergy.com/about-us/customer-success-stories/champlain-hudson-power-express-chpe
69	SunZia Transmission, USA	2026	3000	±525	525/345	885 OHL	Hitachi Energy	https://patternenergy.com/projects/sunzia/ https://www.hitachienergy.com/about-us/customer-success-stories/sunzia

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Future projects (details subject to change)

Reference: VSC-HVDC Newsletter 06-2022, Prof. Mike Barnes. Supplemented and continuously updated by RTE international. New updates for this month are highlighted in **blue**.

	Name	Year commissi-onned	Power (MW)	Voltage DC (kV)	Voltage AC (kV)	Transmission Length (km)	Converter Manufacturer	Reference
1	Shin-bupyeong, South Korea	2026	500	±130	345/345	Back-to-back	GE	https://www.gevernova.com/grid-solutions/news-press/ge-and-kapes-awarded-contract-power-south-koreas-electric-grid-using-latest-hvdc http://www.kapes.co.kr/business/business03.asp
2	Project Lightning Das Island, United Arab Emirates	2026	2000	±400	132/400	150 subsea	Hitachi Energy	https://www.hitachienergy.com/about-us/customer-success-stories/project-lightning
3	Project Lightning Al Ghallan, United Arab Emirates	2026	1200	±320	132/400	134 subsea 4 underground	Hitachi Energy	https://www.hitachienergy.com/about-us/customer-success-stories/project-lightning
4	BorWin5, Germany	2026	900	±320	66/380	120 subsea 110 underground	Siemens Energy	https://www.tennet.eu/projects/borwin5
5	Zhangjiang, Guangdong Yangjiang Qingzhou 5 and 7 OWF, China	2026	2000	±500	66	92 subsea	RXHK, Xuji Electric	https://www.yangjiang.gov.cn/yj/ywdt/bmzx/content/post_978055.html https://www.rxhk.com/m/rouxingzhiliushudianchengtaozhuangzhiHVDCSmart/344.html
6	Sofia, UK	2026	1320	±320	400	220 subsea 7 underground	GE	https://sofiawindfarm.com/ https://www.gevernova.com/grid-solutions/press/gepress/ge-consortium-awarded-contract-to-build-state-of-the-art-hvdc-system.htm
7	Dogger Bank C, UK	2026	1200	±320	66/420	270 subsea 7 underground	Hitachi Energy	https://www.hitachienergy.com/about-us/customer-success-stories/dogger-bank
8	Ultranet, Germany	2026	2000	±380	400	340 OHL	Siemens Energy	https://www.amprion.net/Grid-expansion/Our-Projects/Ultranet/
9	East Anglia THREE, UK	2026	1400	±320	/	150 subsea 37 underground	Siemens Energy	https://www.scottishpowerrenewables.com/pages/east_anglia_three.aspx
10	Sunrise wind, USA	2027	924	±320	66/138	160 subsea 27 underground	Siemens Energy	https://sunrisewindny.com/ https://www.boem.gov/renewable-energy/state-activities/sunrise-wind
11	SuedOstLink, Germany	2027	2000	±525	/	580 underground	Siemens Energy	https://www.50hertz.com/en/Grid/Griddevelopement/Onshoreprojects/SuedOstLink https://www.tennet.eu/de/projekte/suedostlink
12	Riyadh-Jeddah (COA-WOA), Saudi Arabia	2027	3000	±500	380/380	800 OHL	RXHK	https://ecp.sgcc.com.cn/ecp2.0/portal/#/doc/doci-win/2407160254483887_2018060501171107 https://www.rxhk.com/gongsixinwen/311.html
13	Riyadh-Jizan (COA-SOA), Saudi Arabia	2027	2x2000	±500	380	1089 OHL	C-EPRI, Xuji Electric	https://ecp.sgcc.com.cn/ecp2.0/portal/#/doc/doci-win/2407160254483887_2018060501171107 http://xjgc.com/en/details_hot_IR768763310309105664.html

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	Name	Year commissi-onned	Power (MW)	Voltage DC (kV)	Voltage AC (kV)	Transmission Length (km)	Converter Manufacturer	Reference
14	Châteauguay, Canada-USA	2027	2x750	/	735/765	Back-to-back	Hitachi Energy	https://www.hitachienergy.com/about-us/customer-success-stories/chateauguay
15	A-Nord, Germany	2027	2000	±380	380	300 underground	Siemens Energy	https://a-nord.amprion.net/Projekt/
16	Suedlink - DC3, Germany	2027	2000	±525	400/400	700 underground	Siemens Energy	https://www.transnetbw.de/de/suedlink https://www.tennet.eu/de/projekte/suedlink
17	Yanbu-NIC, Saudi Arabia	2027	3000	±525	380/380	635 OHL	Hitachi Energy	https://www.hitachienergy.com/about-us/customer-success-stories/yanbu-nic
18	Borwin6, Germany	2027	980	±320	66/380	190 subsea 45 underground	GEIRI/C-EPRI	https://www.tennet.eu/projects/borwin6 https://www.tennet.eu/news/tennet-awards-land-and-sea-station-grid-connection-project-borwin6-international-consortium
19	Hornsea 3, UK	2027	2x1320	±320	66/400	170 subsea 50 underground	Hitachi Energy	https://www.hitachienergy.com/about-us/customer-success-stories/hornsea-3
20	Gansu-Zhejiang, China	2027	8000	±800	750/500	2370 OHL	C-EPRI/Hitachi Energy	https://news.bjx.com.cn/html/20240730/1391785.shtml http://www.sgcc.com.cn/html/sgcc/col2022121225/2024-07/29/20240729154613799358345_1.shtml
21	New Hokkaido-Honshu pole 2, Japan	2027	300	250	275	24 underground 98 OHL	Toshiba	https://sumitomoelectric.com/press/2024/05/prs014
22	Corinth-Kos, Dodecanese islands, Greece	2027	1000	/	/	380 subsea	/	https://www.admie.gr/en/kentro-typoy/press-releases/map-interconnections-be-completed-2030 https://www.eib.org/en/projects/all/20250177
23	Mengxi-Beijing-Tianjin-Hebei, China	2027	8000	±800	500/500	703 OHL	RXHK	http://www.sgcc.com.cn/html/sgcc_main/gb/xwzx/yw/20251230/794700202512301816000001.shtml
24	Chongqing-Guizhou B2B, China	2027	3000	/	/	Back-to-back	/	https://paper.people.com.cn/rmrb/pc/content/202511/20/content_30115862.html https://paper.people.com.cn/zgnyb/pc/content/202511/24/content_30116854.html
25	Hunan-Guizhou B2B, China	2027	3000	/	/	Back-to-back	/	https://paper.people.com.cn/rmrb/pc/content/202511/20/content_30115862.html https://paper.people.com.cn/zgnyb/pc/content/202511/24/content_30116854.html
26	Hunan-Guangdong B2B (Xiangyue), China	2027	3000	/	/	Back-to-back	RXHK	https://paper.people.com.cn/rmrb/pc/content/202511/20/content_30115862.html https://www.rxhk.com/gongsixinwen/353.html
27	Fujian-Jiangxi B2B, China	2027	3000	/	/	Back-to-back	/	https://paper.people.com.cn/rmrb/pc/content/202511/20/content_30115862.html https://paper.people.com.cn/zgnyb/pc/content/202511/24/content_30116854.html
28	Anhui-Hubei B2B, China	2027	3000	/	/	Back-to-back	/	https://paper.people.com.cn/rmrb/pc/content/202511/20/content_30115862.html

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	Name	Year commissi-onned	Power (MW)	Voltage DC (kV)	Voltage AC (kV)	Transmission Length (km)	Converter Manufacturer	Reference
								https://paper.people.com.cn/zgnyb/pc/content/202511/24/content_30116854.html
29	Celtic Interconnector Ireland-France	2028	700	±320	220/400	500 subsea 35+40 underground	Siemens Energy	https://www.celticinterconnector.eu/ https://www.eirgrid.ie/celticinterconnector
30	Bay of Biscay, France-Spain	2028	2x1000	±400	400/400	300 subsea 80+30+13 underground	Hitachi Energy	https://www.inelfe.eu/en/projects/bay-biscay https://www.hitachienergy.com/about-us/customer-success-stories/biscay-gulf
31	BorWin4, Germany	2028	900	±320	/	130 subsea 130 underground	Siemens Energy	https://www.siemens-energy.com/global/en/home/press-releases/wind-power-18-million-people-siemens-energy-wins-largest-grid-connection-order-date.html https://www.amprion.net/Press/Press-Detail-Page_44160.html
32	DolWin4, Germany	2028	900	±320	/	60 subsea 150 underground	Siemens Energy	https://www.siemens-energy.com/global/en/home/press-releases/wind-power-18-million-people-siemens-energy-wins-largest-grid-connection-order-date.html https://www.amprion.net/Press/Press-Detail-Page_44160.html
33	Higashi-Shimizu, Japan	2028	600	/	275	Back-to-back	Hitachi Energy	https://www.hitachienergy.com/about-us/customer-success-stories/higashi-shimizu
34	Shin-Sakuma, Japan	2028	300	/	/	Back-to-back	Mitsubishi	https://www.mitsubishielectric.com/news/2023/1002.html
35	Neuconnect, UK-Germany	2028	1400	±525	400	710 subsea 15 underground	Siemens Energy	https://neuconnect-interconnector.com/
36	Tyrrhenian Link East Sicily-Campania, Italy	2028	1000	±500	380/380	490 subsea	Siemens Energy	https://www.terna.it/en/projects/public-engagement/Tyrrhenian-link https://www.siemens-energy.com/global/en/home/press-releases/ramping-up-renewable-energy-siemens-energy-connects-italys-largest-islands-to-the-mainland.html
37	Tyrrhenian Link West Sicily-Sardinia, Italy	2028	1000	±500	380/380	480 subsea	Siemens Energy	https://www.terna.it/en/projects/public-engagement/Tyrrhenian-link https://www.siemens-energy.com/global/en/home/press-releases/ramping-up-renewable-energy-siemens-energy-connects-italys-largest-islands-to-the-mainland.html
38	ELMED interconnector, Italy-Tunisia	2028	600	±500	/	230 subsea	/	https://elmedproject.com/ https://www.terna.it/en/projects/projects-common-interest/italy-tunisia-interconnection
39	Grain Belt Express phase 1, USA	2028	5000	±600	345/345	850 OHL	Siemens Energy	https://grainbeltexpress.com/
40	Three Corners Connector, USA	2028	/	±525	/	480 OHL	/	https://threecornersconnector.com/
41	Power Santa Clara Valley (Metcalf - San Jose B), USA	2028	1000	±320	500/230	20 underground	/	https://ceqanet.lci.ca.gov/2024090200/3 https://powerthebay.com/

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	Name	Year commissi-onned	Power (MW)	Voltage DC (kV)	Voltage AC (kV)	Transmission Length (km)	Converter Manufacturer	Reference
42	Sanshan Island Offshore Wind Farm 1-4, China	2028	2000	±500	/	115 subsea 180 OHL	/	https://www.gdaec.com.cn/NewsDetail/5282180.html
43	Adriatic Link, Italy	2029	1000	±500	400/400	210 subsea 40 underground	Siemens Energy	https://www.terna.it/en/projects/public-engagement/adriatic-link https://www.fatagroup.it/adriatic-link-ternas-submarine-power-link-that-will-connect-marche-and-abruzzo-fata-s-p-a-and-siemens-energy-together-again-to-support-the-new-era-of-sustainable-energy/
44	IJmuiden Ver Beta, Netherlands	2029	2000	±525	/	/	GE	https://www.tennet.eu/about-tennet/innovations/2gw-program https://www.tennet.eu/news/around-eu30-billion-europes-largest-ever-contracting-pack-age-security-supply-energy
45	IJmuiden Ver Alpha, Netherlands	2029	2000	±525	66/380	164 subsea 12 underground	Hitachi Energy	https://www.tennet.eu/about-tennet/innovations/2gw-program https://www.tennet.eu/news/around-eu30-billion-europes-largest-ever-contracting-pack-age-security-supply-energy
46	IJMUiden Ver Gamma, Netherlands	2029	2000	±525	/	/	GE	https://www.tennet.eu/about-tennet/innovations/2gw-program https://www.tennet.eu/news/around-eu30-billion-europes-largest-ever-contracting-pack-age-security-supply-energy
47	Suedlink - DC4, Germany	2029	2000	±525	400/400	550 underground	Hitachi Energy	https://www.transnetbw.de/de/suedlink https://www.tennet.eu/de/projekte/suedlink https://www.hitachienergy.com/about-us/customer-success-stories/suedlink-dc4
48	Eastern Green Link 2, UK	2029	2000	±525	/	440 subsea 67 underground	Hitachi Energy	https://www.ssen-transmission.co.uk/projects/project-map/eastern-green-link-2/ https://www.easterngreenlink2.co.uk/
49	Khavda-III - South Olpad, India	2029	2500	±500	400/400	600 OHL	GE Vernova	https://www.gevernova.com/news/press-releases/ge-vernova-awarded-major-contract-deliver-hvdc https://www.pfcclindia.com/download/khavda-hvdc-part-c-8Gw-itp-76-rfp-05-08-2024.pdf
50	BalWin4, Germany	2029	2000	±525	66/380	165 subsea 110 underground	GE	https://www.tennet.eu/about-tennet/innovations/2gw-program https://www.tennet.eu/projects/balwin4-lanwin1
51	MaresConnect, UK-Ireland	2029	750	±400	400/220	245 subsea	/	https://maresconnect.ie/
52	Great Sea Interconnector phase 1, Greece-Cyprus	2029	2000	±525	/	898 subsea 10 underground	Siemens Energy	https://www.great-sea-interconnector.com/en
53	Eastern Green Link 1, UK	2030	2000	±525	400/400	176 subsea 20 underground	GE	https://www.nationalgrid.com/electricity-transmission/network-and-infrastructure/segl1
54	Norfolk Vanguard West, UK	2030	1400	/	66/400	~50 subsea ~60 underground	Siemens Energy	https://group.vattenfall.com/uk/what-we-do/our-projects/vattenfallinnorfolk https://uk.rwe.com/press-and-news/2023-12-21-rwe-acquires-4-2-gigawatt-uk-offshore-wind-development-portfolio-from-vattenfall/
55	Norfolk Vanguard East, UK	2030	1400	/	66/400	~50 subsea ~60 underground	Siemens Energy	https://group.vattenfall.com/uk/what-we-do/our-projects/vattenfallinnorfolk

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	Name	Year commissi-onned	Power (MW)	Voltage DC (kV)	Voltage AC (kV)	Transmission Length (km)	Converter Manufacturer	Reference
								https://uk.rwe.com/press-and-news/2023-12-21-rwe-acquires-4-2-gigawatt-uk-offshore-wind-development-portfolio-from-vattenfall/
56	Norfolk Boreas, UK	2030	1400	/	66/400	~50 subsea ~60 underground	Siemens Energy	https://group.vattenfall.com/uk/what-we-do/our-projects/vattenfallinnorfolk https://uk.rwe.com/press-and-news/2023-12-21-rwe-acquires-4-2-gigawatt-uk-offshore-wind-development-portfolio-from-vattenfall/
57	SouthCoast Wind 1, USA	2030	1200	±320	69/345	/	/	https://southcoastwind.com/southcoast-wind-1/
58	Square Butte HVDC modernization, USA	2030	/	±250	345/345	750 OHL	Siemens Energy	https://puc.eip.mn.gov/web/project/15051 https://www.mnpower.com/Company/Transmission https://www.psc.nd.gov/webdocs/case/24-0382/001-020.pdf
59	TransWest Express (TWE), USA	2030	3000	±500	500/345	650 OHL	Siemens Energy	https://www.transwestexpress.net/about/ferc.shtml
60	Marinus Link stage 1, Australia	2030	750	±320	500/220	255 subsea 90 underground	Hitachi Energy	https://www.marinuslink.com.au/overview/
61	BalWin1, Germany	2030	2000	±525	380	170 subsea 220 underground	Siemens Energy	https://offshore.amprion.net/Offshore-Projekte/LanWin1-LanWin3/ https://www.siemens-energy.com/global/en/home/press-releases/wind-power-18-million-people-siemens-energy-wins-largest-grid-connection-order-date.html
62	LanWin1, Germany	2030	2000	±525	66/380	165 subsea 110 underground	GE	https://www.tennet.eu/about-tennet/innovations/2gw-program https://www.tennet.eu/projects/balwin4-lanwin1
63	Nederwiek 1, Netherlands	2030	2000	±525	66/380	208 subsea 9 underground	Hitachi Energy	https://www.tennet.eu/about-tennet/innovations/2gw-program https://www.tennet.eu/news/around-eu30-billion-europes-largest-ever-contracting-pack-age-security-supply-energy
64	Nederwiek 2, Netherlands	2030	2000	±525	/	/	GE	https://www.tennet.eu/about-tennet/innovations/2gw-program https://www.tennet.eu/news/around-eu30-billion-europes-largest-ever-contracting-pack-age-security-supply-energy
65	Western Isles (Arnish-Beauly) Scotland, UK	2030	2000	±525	400	81 subsea 80 underground	Hitachi Energy	https://www.ssen-transmission.co.uk/projects/project-map/western-isles/ https://www.hitachienergy.com/news/press-releases/2023/07/hitachi-energy-selected-for-multi-project-agreement-to-secure-large-scale-renewable-integration-in-scotland
66	Spittal-Peterhead Scotland, UK	2030	2000	±525	400/400	170 subsea 30-50 underground	Hitachi Energy	https://www.ssen-transmission.co.uk/projects/project-map/spittal--peterhead-subsea-cable-link/ https://www.hitachienergy.com/news/press-releases/2023/07/hitachi-energy-selected-for-multi-project-agreement-to-secure-large-scale-renewable-integration-in-scotland
67	SACOI3, Sardinia-Corsica-Italy	2030	400	±200	/	300 subsea and underground	Hitachi Energy	https://www.terna.it/en/projects/projects-common-interest/sardinia-corsica-mainland-italy-electrical-interconnection https://tyndp2026.entsoe.eu/projects-map/transmission/299

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	Name	Year commissi-onned	Power (MW)	Voltage DC (kV)	Voltage AC (kV)	Transmission Length (km)	Converter Manufacturer	Reference
68	Attentive Energy One, USA	2030	1400	/	/	~ 190 subsea	/	https://attentiveenergy.com/ https://www.nyserda.ny.gov/All-Programs/Offshore-Wind/Focus-Areas/Offshore-Wind-Solicitations/2022-Solicitation
69	Community Offshore Wind, USA	2030	1300	/	/	/	/	https://communityoffshorewind.com/ https://www.nyserda.ny.gov/All-Programs/Offshore-Wind/Focus-Areas/Offshore-Wind-Solicitations/2022-Solicitation
70	Excelsior Wind, USA	2030	1300	/	/	/	/	https://www.vineyardoffshore.com/excelsiorwind https://www.nyserda.ny.gov/All-Programs/Offshore-Wind/Focus-Areas/Offshore-Wind-Solicitations/2022-Solicitation
71	Princess Elisabeth Energy Island, Belgium	2030	3500	±525	/	60 subsea	/	https://www.elia.be/en/infrastructure-and-projects/infrastructure-projects/princess-elisabeth-island
72	Tarchon Energy, Germany-UK	2030	1400	±525	400	650 subsea	/	https://tarchoninterconnector.com/ https://tyndp2026.entsoe.eu/projects-map/transmission/1050
73	SuedOstLink+, Germany	2030	2000	±525	/	780 underground	Siemens Energy	https://www.50hertz.com/en/Grid/Griddevelopement/Onshoreprojects/SuedOstLinkPlus https://www.tennet.eu/de/projekte/suedostlink
74	LanWin2, Germany	2030	2000	±525	/	~270 subsea	Siemens Energy	https://www.tennet.eu/projects/lanwin2 https://www.tennet.eu/news/around-eu30-billion-europes-largest-ever-contracting-pack-age-security-supply-energy
75	Continental Connector, USA	2030	3000	/	/	800 OHL	/	https://continentalconnectorllc.com/
76	Sea Link, UK	2031	2000	/	400/400	130 subsea 12 underground	Siemens Energy	https://www.nationalgrid.com/electricity-transmission/document/146196/download
77	Southern Spirit Transmission, USA	2031	3000	±525	/	515 OHL	/	https://patternenergy.com/projects/southern-spirit-transmission/
78	Paradeep - Andaman Island (phase 1), India	2031	250	±320	/	1150 subsea	/	https://www.andamanchronicle.net/index.php/31479-electricity-department-takes-decisive-actions-to-meet-power-supply-demand-and-minimize-load-shedding https://powermin.gov.in/sites/default/files/uploads/National_Electricity_Plan_Volume_II_Transmission.pdf
79	BalWin2, Germany	2031	2000	±525	380	160 subsea 230 underground	Siemens Energy	https://offshore.amprion.net/Offshore-Projekte/LanWin1-LanWin3/ https://www.siemens-energy.com/global/en/home/press-releases/wind-power-18-million-people-siemens-energy-wins-largest-grid-connection-order-date.html
80	LionLink hybrid interconnector - Nederwiek 3 OWF, UK-Netherlands	2031	2000	±525	400/66 /380	/	Hitachi Energy tbc	https://www.tennet.eu/lionlink https://www.tennet.eu/news/interconnector-lionlink-developed-through-offshore-grid-project-nederwiek-3 https://www.tennet.eu/news/around-eu30-billion-europes-largest-ever-contracting-pack-age-security-supply-energy

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	Name	Year commissi-onned	Power (MW)	Voltage DC (kV)	Voltage AC (kV)	Transmission Length (km)	Converter Manufacturer	Reference
81	Doordewind 1, Netherlands	2031	2000	±525	/	/	Hitachi Energy	https://www.tennet.eu/about-tennet/innovations/2gw-program https://www.tennet.eu/news/around-eu30-billion-europes-largest-ever-contracting-pack-age-security-supply-energy
82	Doordewind 2, Netherlands	2031	2000	±525	/	/	Hitachi Energy	https://www.tennet.eu/about-tennet/innovations/2gw-program https://www.tennet.eu/news/around-eu30-billion-europes-largest-ever-contracting-pack-age-security-supply-energy
83	BalWin3, Germany	2031	2000	±525	66/380	200 subsea 45 underground	Siemens Energy	https://www.tennet.eu/projects/balwin3-lanwin4 https://www.tennet.eu/news/around-eu30-billion-europes-largest-ever-contracting-pack-age-security-supply-energy
84	LanWin4, Germany	2031	2000	±525	66/380	180 subsea 45 underground	Siemens Energy	https://www.tennet.eu/projects/balwin3-lanwin4 https://www.tennet.eu/news/around-eu30-billion-europes-largest-ever-contracting-pack-age-security-supply-energy
85	LanWin5, Germany	2031	2000	±525	/	~290 subsea	Hitachi Energy	https://www.tennet.eu/projects/lanwin5 https://www.tennet.eu/news/around-eu30-billion-europes-largest-ever-contracting-pack-age-security-supply-energy
86	West Coast Energy Expressway, South Korea	2031-2038	4x2000	±525	345/345	220 + 290 + 350 + 210	/	https://www.chosun.com/english/industry-en/2025/05/28/PBQB57WEJVDVDDV5DR46T4OYB4/ https://www.businesskorea.co.kr/news/articleView.html?idxno=243305
87	Attentive Energy Two, NY, USA	2031	1300	/	/	/	/	https://attentiveenergy.com/attentive-energy-two/
88	Syncline Community Cable, Australia	2031	/	±525 kV	/	265 underground	/	https://www.synclinecommunitycable.com.au/
89	Hokkaido-Honshu pole 1, Japan	2031	300	250	275	43 subsea 27 + 97 OHL	Toshiba	https://www.global.toshiba/ww/news/energy/2026/03/news-20260316-01.html
90	Hostos project, Dominican Republic-Puerto Rico	2031	500	±320	345	150 subsea	Siemens Energy	https://caribbeantransmission.com/nuestro-proyecto/ https://www.federalregister.gov/documents/2024/03/14/2024-05413/application-for-presidential-permit-caribbean-transmission-development-co-llc
91	GREGY Interconnector, Greece-Egypt	2031	3000	±525	/	1400 subsea	/	https://www.gregy-interconnector.gr/ https://tyndp2026.entsoe.eu/projects-map/transmission/1041
92	Centre Manche 1, France	2032	1250	±320	132/400	100 subsea	Hitachi Energy	https://www.hitachienergy.com/news-and-events/customer-success-stories/centre-manche-1 https://www.rte-france.com/projets/nos-projets/raccordement-parc-eolien-mer-centre-manche-1
93	Nautilus, UK-Belgium	2032	1400	±525	400	140 subsea	/	https://tyndp2026.entsoe.eu/projects-map/transmission/121 https://www.nationalgrid.com/national-grid-ventures/interconnectors-connecting-cleaner-future/nautilus-interconnector
94	SOO Green HVDC Link, USA	2032	2100	±525	345/345	560 underground	Siemens Energy	https://soogreen.com/ https://www.utilitydive.com/news/soo-green-transmission-miso-pjm-interregional-big-wires-act-hickenlooper/693916/

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	Name	Year commissi-onned	Power (MW)	Voltage DC (kV)	Voltage AC (kV)	Transmission Length (km)	Converter Manufacturer	Reference
95	North Plains Connector, USA	2032	3000	±525	500/345	670 OHL	/	https://northplainsconnector.com/
96	North Path Transmission, USA	2032	4000	±525	/	643 OHL	/	https://northpath.invenergy.com/ https://nmreta.com/north-path-transmission-project/
97	Cimarron Link, USA	2032	1900	/	/	640 OHL	/	https://cimarronlink.com/
98	Wyoming Intertie, USA	2032	3000	/	/	160 OHL	/	https://wyomingintertie.com/
99	Marinus Link stage 2, Australia	2032	750	±320	500/220	255 subsea 90 underground	/	https://www.marinuslink.com.au/overview/
100	Korridor-B V48, Germany	2032	2000	±525	/	391 underground	Hitachi Energy	https://www.netzausbau.de/Vorhaben/ansicht/de.html?cms_nummer=48&cms_gruppe=bbplg https://korridor-b.amprion.net/
101	Korridor-B V49, Germany	2032	2000	±525	/	262 underground	Hitachi Energy	https://www.netzausbau.de/Vorhaben/ansicht/de.html?cms_nummer=49&cms_gruppe=bbplg https://korridor-b.amprion.net/
102	NordOstLink (DC31), Germany	2032	2000	±525	/	~212 underground	/	https://www.50hertz.com/en/Grid/Griddevelopement/Onshoreprojects/NordOstLink
103	Cronos Energy, Belgium-UK	2032	1400	±525	/	~200 subsea	/	https://www.cronos-energy.net/ https://tyndp2026.entsoe.eu/projects-map/transmission/1049
104	BorWin7 (NOR-6-4), Germany	2032	2000	±525	/	454 underground	/	https://offshore.amprion.net/Offshore-Projekte/Windader-West/ https://www.netzentwicklungsplan.de/sites/default/files/2023-07/NEP_2037_2045_V2023_2_Entwurf_Teil1_1.pdf
105	Madurai-Mannar, India-Sri Lanka	2032	1000	±320	400	120 subsea 112+10 OHL	/	https://powermin.gov.in/sites/default/files/uploads/National_Electricity_Plan_Volume_II_Transmission.pdf
106	Milan-Montalto, Italy	2032	2000	±525	/	400 OHL and subsea	/	https://www.terna.it/en/electric-system/efficient-territorial-planning/national-electricity-transmission-grid-development-plan
107	AAPowerLink (DarwinLink) Australia	2032	6400	±525	/	800 OHL	/	https://www.suncable.energy/our-projects https://www.infrastructureaustralia.gov.au/projects/australia-asia-powerlink
108	AAPowerLink (SingaporeLink), Australia-Singapore	2032	2000	±525	/	4300 subsea and underground	/	https://www.suncable.energy/our-projects https://www.infrastructureaustralia.gov.au/projects/australia-asia-powerlink
109	Lanwin3 (NOR-11-1), Germany	2032	2000	±525	/	200 subsea 15 underground	Siemens Energy	https://www.50hertz.com/en/Grid/Griddevelopement/Offshoreprojects/LanWin3 https://www.50hertz.com/en/News/FullarticleNewsof50Hertz/14755/50hertz-siemens-energy-and-dragados-offshore-conclude-contract-for-converter-system-in-the-north-sea-and-on-land
110	LirIc, Ireland-UK	2032	700	±320	275/400	142 subsea	/	https://tinv.com/intercon-projects/liric/ https://tyndp2026.entsoe.eu/projects-map/transmission/1040

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	Name	Year commissi-onned	Power (MW)	Voltage DC (kV)	Voltage AC (kV)	Transmission Length (km)	Converter Manufacturer	Reference
111	BalWin5, Germany	2032	2000	±525	/	390 subsea and underground	GE Vernova	https://www.tennet.eu/de/projekte/balwin5 https://www.gevernova.com/news/press-releases/ge-vernova-seatrium-secure-major-contract-tennet
112	IC3, Malta-Italy	2032	200	±320	380	/	/	https://www.gov.mt/en/Government/DOI/Press%20Releases/Pages/2026/05/11/PR260827en.aspx https://tyndp2026.entsoe.eu/projects-map/transmission/1186
113	GRITA 2, Italy-Greece	2033	1000	±500	/	250 subsea 50 underground	/	https://www.terna.it/en/projects/public-engagement/italy-greece-grita-2 https://tyndp2026.entsoe.eu/projects-map/transmission/1112
114	Centre Manche 2, France	2033	1250	±320	132/400	105 subsea	Hitachi Energy	https://www.hitachienergy.com/news-and-events/customer-success-stories/centre-manche-2 https://www.rte-france.com/projets/nos-projets/raccordement-parc-eolien-mer-centre-manche-2
115	Oléron 1, France	2033	1250	±320	400	/	Hitachi Energy	https://www.eoliennesenmer.fr/sites/eoliennesenmer/files/fichiers/2023/05/Pr%C3%A9sentation%20ETAT-RTE.pdf
116	Eastern Green Link 3, UK	2033	2000	±525	400/400	680 subsea and underground	Hitachi Energy	https://www.nationalgrid.com/the-great-grid-upgrade/eastern-green-link-3-and-4
117	Rhine-Main-Link (DC34), Germany	2033	2000	±525	/	~600 underground	/	https://www.amprion.net/Netzausbau/Aktuelle-Projekte/Rhein-Main-Link/
118	Kusenhorst I (NOR-9-5), Germany	2033	2000	±525	/	~290 underground	/	https://offshore.amprion.net/Offshore-Projekte/Windader-West/
119	Rommerskirchen (NOR-x-1), Germany	2034	2000	±525	/	~410 underground	/	https://offshore.amprion.net/Offshore-Projekte/Windader-West/
120	Eastern Green Link 4, UK	2033	2000	±525	400/400	530 subsea 14+100 underground	Siemens Energy	https://www.nationalgrid.com/the-great-grid-upgrade/eastern-green-link-3-and-4
121	GiLA, France	2034	2x1200	±320	/	/	/	https://www.rte-france.com/projets/nos-projets/nouvel-axe-electrique-facade-atlantique https://tyndp2026.entsoe.eu/projects-map/transmission/1134
122	LanWin7, Germany	2034	2000	±525	/	320 subsea and underground	/	https://www.nkt.com/news-press-releases/nkt-awarded-two-high-voltage-projects-under-existing-framework-agreement-with-tennet
123	Bornholm - Zealand Interconnector, Denmark	2034	1200	±525	/	200 subsea 17 underground	Siemens Energy	https://bornholmenergyisland.eu/en/ https://www.nkt.com/news-press-releases/nkt-awarded-the-power-cable-connection-between-bornholm-energy-island-and-zealand-in-denmark
124	Bornholm - Germany Interconnector Denmark-Germany	2034	2000	±525	/	160 subsea	Siemens Energy	https://bornholmenergyisland.eu/en https://energinet.dk/bornholminterconnector/ https://www.50hertz.com/en/BEI/
125	Oléron 2, France	2035	1250	±320	400	/	/	https://www.eoliennesenmer.fr/facades-maritimes-en-france/facade-sud-atlantique/oleron/oleron-2

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	Name	Year commissi-onned	Power (MW)	Voltage DC (kV)	Voltage AC (kV)	Transmission Length (km)	Converter Manufacturer	Reference
126	HansaLink (hybrid interconnector), UK-Germany	2035	2000	±525	400/132/ 400	850 subsea	/	https://www.windgrid.com/en/hansalink https://tyndp2026.entsoe.eu/projects-map/transmission/1192 https://tyndp2026.entsoe.eu/projects-map/transmission/1193
127	Kusenhorst II (NOR-x-2), Germany	2035	2000	±525	/	~290 underground	/	/
128	Rhine-Main-Link (DC35), Germany	2035	2000	±525	/	~550 underground	/	https://www.amprion.net/Netzausbau/Aktuelle-Projekte/Rhein-Main-Link/
129	Ionian-Tyrrhenian backbone, Italy	2035	2000 1000 1000	±525	/	200 + 200 + 400 OHL and subsea	/	https://www.terna.it/en/electric-system/efficient-territorial-planning/national-electricity-transmission-grid-development-plan
130	Shetland 2, UK	2035	2000	±525	/	/	/	https://www.sse.com/news-and-views/2024/05/ssen-transmission-selects-sumitomo-electric-van-oord-consortium-as-preferred-bidder-for-shetland-2-hvdc-link/
131	New Humboldt-Collinsville, USA	2035	3000	±525	500/500	420 OHL	/	https://www.caiso.com/documents/appendix-i-board-approved-2023-2024-transmission-plan.pdf
132	Northeast Bipole II (Angicos – Itaporanga 2), Brazil	2035	3000	600	/	2500 OHL	/	https://www.epe.gov.br/pt/imprensa/noticias/epe-inova-ao-publicar-estudo-de-expansao-da-capacidade-das-interligacoes-regionais-recomendando-a-aplicacao-da-tecnologia-hvdc-vsc-de-forma-inedita-no-sin-com-flexibilidade-tecnologica-para-os-leiloes-de-transmissao
133	NordOstLink+ (DC32), Germany	2035	2000	±525	/	~185 underground	/	https://www.50hertz.com/en/News/FullarticleNewsof50Hertz/13735/50hertz-signs-contracts-with-nkt-and-prysmian-group-for-at-least-3-500-km-of-submarine-and-land-cable https://www.netzausbau.de/Vorhaben/ansicht/de.html?cms_nummer=81&cms_gruppe=bbplg
134	LanWin6, Germany	2035	2000	±525	/	~900 subsea	/	https://www.50hertz.com/en/News/FullarticleNewsof50Hertz/13735/50hertz-signs-contracts-with-nkt-and-prysmian-group-for-at-least-3-500-km-of-submarine-and-land-cable
135	Ostwind 4, Germany	2035	2000	±525	/	~345 subsea	GE	https://www.50hertz.com/Grid/Griddevelopement/Offshoreprojects/Ostwind4 https://www.50hertz.com/en/News/FullarticleNewsof50Hertz/13735/50hertz-signs-contracts-with-nkt-and-prysmian-group-for-at-least-3-500-km-of-submarine-and-land-cable
136	Fécamp Grand Large 1, France	2035	~2000	±525	/	/	/	https://www.eoliennesenmer.fr/planification-et-participation-du-public2
137	Fécamp Grand Large 2, France	2035	~2000	±525	/	/	/	https://www.eoliennesenmer.fr/planification-et-participation-du-public2
138	Bretagne Nord Ouest, France	2035	~2000	±525	/	/	/	https://www.eoliennesenmer.fr/planification-et-participation-du-public2
139	Golfe de Gascogne Sud, France	2035	~1200	±320	/	/	/	https://www.eoliennesenmer.fr/planification-et-participation-du-public2

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	Name	Year commissi-onned	Power (MW)	Voltage DC (kV)	Voltage AC (kV)	Transmission Length (km)	Converter Manufacturer	Reference
140	Golfe du Lion Centre, France	2035	~2000	±525	/	/	/	https://www.eoliennesenmer.fr/planification-et-participation-du-public2
141	Eastern Green Link 5, UK	2035	2000	±525	400/400	585 subsea and underground	/	https://www.ssen-transmission.co.uk/projects/project-map/eastern-green-link-5/ https://www.nationalgrid.com/the-great-grid-upgrade/eastern-green-link-5
142	Western Link 2, UK	2035	2000	±525	400/400	~182 + 341 + 43 subsea	/	https://www.spenergynetworks.co.uk/pages/western_link_2.aspx https://www.nationalgrid.com/electricity-transmission/network-and-infrastructure/infrastructure-projects/western-link-2
143	Konti-Skan upgrade, Denmark-Sweden	2036	1000	±320	400/400	160 subsea	/	https://www.svk.se/en/grid-development/grid-projects/konti-skan-connect/ https://tyndp2026.entsoe.eu/projects-map/transmission/1097
144	Rhine-Main-Link NOR-x-4 (onshore-part), Germany	2036	2000	±525	/	~700 underground	/	https://www.amprion.net/Netzausbau/Aktuelle-Projekte/Rhein-Main-Link/
145	Oberzier (NOR-x-5), Germany	2036	2000	±525	/	~410 underground	/	https://offshore.amprion.net/Offshore-Projekte/Windader-West/
146	Adriatic backbone (Foggia-Forlì), Italy	2036	2000 1000 2000	±525	/	500 OHL and subsea	/	https://www.terna.it/en/electric-system/efficient-territorial-planning/national-electricity-transmission-grid-development-plan
147	Navarra-Landes, Spain-France	2036	2x1000	±320	400/400	225 underground or OHL	/	https://tyndp2026.entsoe.eu/projects-map/transmission/276
148	Eleclink 2, France-UK	2036	1000	±320	400/400	/	/	https://www.eleclink.co.uk/eleclink2 https://tyndp2026.entsoe.eu/projects-map/transmission/1264
149	Rhine-Main-Link NOR-x-8 (onshore-part), Germany	2037	2000	±525	/	~700 underground	/	https://www.amprion.net/Netzausbau/Aktuelle-Projekte/Rhein-Main-Link/
150	HVDC Line DE-CH, Germany-Switzerland	2037	1000	/	/	250 underground or OHL	/	https://tyndp2026.entsoe.eu/projects-map/transmission/1058 https://www.netzentwicklungsplan.de/sites/default/files/2023-07/NEP_2037_2045_V2023_2_Entwurf_Teil2_1.pdf
151	Estlink 3, Estonia-Finland	2038	700	±450	400/330	~80 subsea	/	https://elering.ee/en/elering-considering-northwestern-estonia-onshore-connection-estlink-3 https://tyndp2026.entsoe.eu/projects-map/transmission/1094
152	Fenno-Skan 3, Sweden-Finland	2038	800	/	/	250 subsea	/	https://www.fingrid.fi/en/news/news/2025/fingrid-and-svenska-kraftnat-initiate-planning-for-fenno-skan-3-submarine-cable-between-finland-and-sweden/ https://tyndp2026.entsoe.eu/projects-map/transmission/239
153	Triton Link, Belgium-Denmark	2038	2000	±525	/	773 subsea	/	https://www.elia.be/en/infrastructure-and-projects/infrastructure-projects/tritonlink https://tyndp2026.entsoe.eu/projects-map/transmission/1092

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	Name	Year commissi-onned	Power (MW)	Voltage DC (kV)	Voltage AC (kV)	Transmission Length (km)	Converter Manufacturer	Reference
154	Reinvestment of Skagerrak 1 and 2, Norway-Denmark	2039	700	±500	400/400	/	/	https://tyndp2026.entsoe.eu/projects-map/transmission/1201 https://www.statnett.no/globalassets/her-er-vare-prosjekter/region-sor/sk1-og-2/melding---reinvestering-av-sk1-og-sk2.pdf
155	SwePol Link Replacement, Sweden-Poland	2040	600	/	/	/	/	https://tyndp2026.entsoe.eu/projects-map/transmission/1269
156	OstWestLink (DC40), Germany	2040	2000	/	/	~600 underground	/	https://www.50hertz.com/de/Netz/Netzausbau/ProjekteanLand/OstWestLink https://www.transnetbw.de/de/newsroom/presseinformationen/fuer-eine-sichere-energiezukunft-50hertz-tennet-und-transnetbw-realisieren-gemeinsam-neue-gleichstrom-verbindungen
157	NordWestLink (DC41), Germany	2040	2000	/	/	~600 underground	/	https://www.tennet.eu/de/projekte/nordwestlink https://www.transnetbw.de/de/newsroom/presseinformationen/fuer-eine-sichere-energiezukunft-50hertz-tennet-und-transnetbw-realisieren-gemeinsam-neue-gleichstrom-verbindungen
158	SuedWestLink (DC42), Germany	2040	2000	/	/	~740 underground	/	https://www.50hertz.com/Netz/Netzausbau/ProjekteanLand/SuedWestLink https://www.transnetbw.de/de/newsroom/presseinformationen/fuer-eine-sichere-energiezukunft-50hertz-tennet-und-transnetbw-realisieren-gemeinsam-neue-gleichstrom-verbindungen
159	Fiumesanto-Montalto (SAPEI 2), Italy	2040	2000	/	/	650 subsea and OHL	/	https://www.terna.it/en/electric-system/efficient-territorial-planning/national-electricity-transmission-grid-development-plan https://tyndp2026.entsoe.eu/projects-map/transmission/1169
160	Roches-Douvres, France	2040	~2000	±525	/	/	/	https://www.eoliennesenmer.fr/planification-et-participation-du-public2
161	Bretagne Nord Est, France	2040	~2000	±525	/	/	/	https://www.eoliennesenmer.fr/planification-et-participation-du-public2
162	Golfe de Gascogne Nord, France	2040	~1200	±320	/	/	/	https://www.eoliennesenmer.fr/planification-et-participation-du-public2
163	Golfe du Lion Est, France	2040	~1100	±320	/	/	/	https://www.eoliennesenmer.fr/planification-et-participation-du-public2
164	GriffinLink, UK-Germany	2040	2000 multi-terminal	/	/	/	/	https://www.nationalgrid.com/national-grid-tennet-germany-launch-griffinlink-first-kind-project-maximise-offshore-wind https://tyndp2026.entsoe.eu/projects-map/transmission/1247
165	Aragón-Atlantic Pyrenees, Spain-France	2041	2000	±320	400/400	120 underground or OHL	/	https://tyndp2026.entsoe.eu/projects-map/transmission/270
166	Medlink link 1, Italy-Algeria	In planning	2000	±525	400/400	940 subsea and OHL	/	https://tyndp2026.entsoe.eu/projects-map/transmission/1208

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	Name	Year commissi-onned	Power (MW)	Voltage DC (kV)	Voltage AC (kV)	Transmission Length (km)	Converter Manufacturer	Reference
167	Medlink link 2, Italy-Tunisia	In planning	2000	±525	400/400	690 subsea and OHL	/	https://tyndp2026.entsoe.eu/projects-map/transmission/1208
168	Lake Erie Connector, Canada-USA	In planning		/	/	57 subsea	/	https://www.nexteraenergytransmission.com/lake-erie-connector.html https://www.energy.gov/sites/default/files/2025-01/PP-412-1%20Lake%20Eerie%20Connector%20Transmission%2C%20LLC%20Presidential%20Permit%20Order.pdf https://www.pacodeandbulletin.gov/Display/pabull?file=/secure/pabulletin/data/vol56/56-3/84.html
169	Cascade Renewable Transmission, USA	In planning	1100	±400	500/230	130 subsea 30 underground	/	https://www.cascaderenewable.com/project/description
170	Toronto third power Supply, Canada	In planning	/	/	/	/	/	https://www.ieso.ca/-/media/Files/IESO/Document-Library/regional-planning/Toronto/toronto-20250925-presentation.pdf
171	Clean Path New York, USA	In planning	1300	±400	/	280 underground	/	https://www.cleanpathny.com/
172	Beacon Wind 1, USA	In planning	1230	/	/	/	/	https://www.beaconwind.com/ https://www.rechargenews.com/wind/equinor-and-bp-to-pioneer-high-voltage-offshore-wind-export-lines-in-us-atlantic/2-1-1012225
173	Dogger Bank South East and West, UK	In planning	2x1500	/	/	/	/	https://doggerbanksouth.co.uk/
174	FAB Link, UK-France	In planning	1250	±320	400/400	170 subsea 15+25 underground	/	http://www.fablink.net/
175	Gridlink, UK-France	In planning	1400	±525	400/400	140 subsea 20 underground	/	https://gridlinkinterconnector.com/ https://tyndp2026.entsoe.eu/projects-map/transmission/285
176	Aquind, UK-France	In planning	2x1000	±320	400/400	242 subsea	/	http://aquind.co.uk/
177	Grain Belt Express phase 2, USA	In planning	5000	±600	345/345	430 OHL	/	https://grainbeltexpress.com/
178	Península-Baleares, Spain	In planning	400	±250	/	405 subsea	/	https://www.ree.es/en/press-office/news/press-release/2024/07/agreement-second-electrical-peninsula-balearic-islands
179	Ayrum HVDC Back to Back No.1, Armenia	In planning	350	/	400/500	Back-to-back	/	https://hiqstep.eu/content/caucasus-transmission-network-phase-i
180	Akhaltsikhe HVDC Back to Back No.3, Georgia	In planning	350	/	500/400	Back-to-back	/	https://www.gse.com.ge/sw/static/file/TYNDP_GE-2023-2033_ENG.pdf
181	Greenconnector, Switzerland-Italy	In planning	1000	±400	/	150 underground	/	http://www.greenconnector.it/

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	Name	Year commissi-onned	Power (MW)	Voltage DC (kV)	Voltage AC (kV)	Transmission Length (km)	Converter Manufacturer	Reference
182	Sasaram B2B upgrade, India	In planning	1000	/	400	Back-to-back	/	https://www.tndindia.com/pgcil-to-upgrade-sasaram-hvdc-project-capacity-to-be-doubled/
183	Baltic-German PowerLink, Germany-Latvia-Lithuania	Being considered	2000	/	/	~600 subsea	/	https://www.litgrid.eu/index.php/news-events-/news/baltic-german-powerlink-germany-latvia-and-lithuania-plan-joint-power-project-in-the-baltic-sea/36465 https://tyndp2026.entsoe.eu/projects-map/transmission/1242
184	Sila Atlantik, Morocco-Germany	Being considered	2x1800	±525	/	/	/	https://xlinks.co/ https://tyndp2026.entsoe.eu/projects-map/transmission/1215
185	Taslink, Australia - New Zealand	Being considered	2000 to 3000	/	/	2600 subsea	/	https://taslink.com/
186	EEL Project, Japan-South Korea	Being considered	2000	/	/	220 subsea	/	https://www.japaninterconnector.com/projects
187	FUGU Project, Japan-South Korea	Being considered	2000	/	/	350 subsea	/	https://www.japaninterconnector.com/projects
188	TUNA Project, Japan-Taiwan	Being considered	1400	/	/	1200 subsea	/	https://www.japaninterconnector.com/projects
189	Baltic WindConnector, Germany-Estonia	Being considered	2000	±525	/	750 subsea	/	https://www.elering.ee/en/elering-and-50hertz-explore-possibilities-build-submarine-electricity-cable-between-estonia-and https://tyndp2026.entsoe.eu/projects-map/transmission/1211
190	LaSGo Link, Sweden-Gotland-Latvia	Being considered	500 700	±320	/	125+195 subsea	/	https://tinv.com/interconnector-projects/ https://tyndp2022-project-platform.azurewebsites.net/projectsheets/transmission/1068
191	Hybrid GB-NL offshore HVDC interconnector, UK-Germany	Being considered	2000	/	/	/	/	https://tyndp2026.entsoe.eu/projects-map/transmission/1275
192	TuNur Malta, Malta-Tunisia	Being considered	500	±320	132	460 subsea and OHL	/	https://tyndp2026.entsoe.eu/projects-map/transmission/1230
193	TuNur Italy, Italy-Tunisia	Being considered	2000	±525	400	660 subsea and OHL	/	https://www.tunur.tn/portfolio/tunur-italy-transmission-line/ https://tyndp2026.entsoe.eu/projects-map/transmission/283
194	Apollo-Link, Spain-Italy	Being considered	2000	±525	/	700 subsea and onshore	/	https://www.apollo-link.eu/ https://tyndp2026.entsoe.eu/projects-map/transmission/1210
195	IberiaLink, Spain-Italy	Being considered	1200	±525	/	/	/	https://tyndp2026.entsoe.eu/projects-map/transmission/1252
196	GB-SEM OHA (NG & EirGrid), Ireland-UK	Being considered	1000 1500	/	/	/	/	https://tyndp2026.entsoe.eu/projects-map/transmission/1262

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	Name	Year commissi-onned	Power (MW)	Voltage DC (kV)	Voltage AC (kV)	Transmission Length (km)	Converter Manufacturer	Reference
197	Ireland-GB Hybrid Interconnector (WindGrid), Ireland-UK	Being considered	1400	±320	/	/	/	https://tyndp2026.entsoe.eu/projects-map/transmission/1274
198	Paradeep - Nicobar Island (phase 2), India	Being considered	250	±320	/	/	/	https://www.andamanchronicle.net/index.php/31479-electricity-department-takes-decisive-actions-to-meet-power-supply-demand-and-minimize-load-shedding https://powermin.gov.in/sites/default/files/uploads/National_Electricity_Plan_Volume_II_Transmission.pdf
199	Great Sea Interconnector phase 2, Cyprus-Israel	Being considered	2000	±525	/	310 subsea 13 underground	/	https://www.great-sea-interconnector.com/en
200	Black Sea Submarine Cable (BSSC), Azerbaijan, Georgia, Romania and Hungary	Being considered	1300	±525	/	1155 offshore and onshore	/	https://gse.com.ge/projects/international-projects/Black-Sea-Submarine-Cable-Project https://tyndp2026.entsoe.eu/projects-map/transmission/1105
201	Green Energy Corridor, Azerbaijan, Georgia, Romania and Hungary	Being considered	2x1300 1300	±525	/	/	/	https://tyndp2026.entsoe.eu/projects-map/transmission/1248 https://tyndp2026.entsoe.eu/projects-map/transmission/1244
202	Romania-Hungary Interconnector, Romania-Hungary	Being considered	2500	±525	/	238 + 830 + 586 OHL	/	https://tyndp2026.entsoe.eu/projects-map/transmission/1216
203	Romania-Serbia Interconnector, Romania-Serbia	Being considered	/	/	/	/	/	https://tyndp2026.entsoe.eu/projects-map
204	The Green Vein, Egypt-Italy	Being considered	3000	/	/	2800 subsea	/	https://thegreenvein.com/ https://www.zawya.com/en/press-release/companies-news/the-green-vein-sustainable-innovative-electricity-corridor-connecting-egypt-and-italy-yquur4vr
205	GulfLink, Italy- Saudi Arabia	Being considered	2x1500	±525	400/400	/	/	https://tyndp2026.entsoe.eu/projects-map/transmission/1253
206	Energy Bridge (ACWA Power), Italy- Saudi Arabia	Being considered	2000	±525	400/400	4200 offshore and onshore	/	https://tyndp2026.entsoe.eu/projects-map/transmission/1267
207	Qantara Med, Morocco-France	Being considered	2x1000	±525	400/400	/	/	https://tyndp2026.entsoe.eu/projects-map/transmission/1257

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	Name	Year commissi-onned	Power (MW)	Voltage DC (kV)	Voltage AC (kV)	Transmission Length (km)	Converter Manufacturer	Reference
208	Initiative Morocco Energy Europe, Morocco-France	Being considered	2000	±525	400/400	~1200 subsea	/	https://tyndp2026.entsoe.eu/projects-map/transmission/1271
209	Joint North Sea Energy Hub, Denmark	Being considered	2000	/	/	/	/	https://tyndp2026.entsoe.eu/projects-map/transmission/1265 https://www.copenhagenenergyislands.com/energy-islands/
210	Aminth Energy Interconnector, Denmark-UK	Being considered	1400	±525	/	580 subsea	/	https://tyndp2022-project-platform.azurewebsites.net/projectsheets/transmission/1051
211	Atlantic Wind Connection (AWC), USA	Being considered	1000	±320	/	Multi-terminal subsea	/	https://www.boem.gov/sites/default/files/renewable-energy-program/State-Activities/ROW-Application-Restated.pdf
212	Pacific Transmission Expansion (PTE), USA	Being considered	2000	±525	500/220	Multi-terminal subsea	/	https://www.caiso.com/documents/appendix-g-board-approved-2023-2024-transmission-plan.pdf
213	Italy-Slovenia, Italy-Slovenia	Being considered	1000	500	/	100 OHL	/	https://tyndp2026.entsoe.eu/projects-map/transmission/150
214	GAP Interconnector, Egypt-Greece	Being considered	2000	±500	/	450 subsea	/	https://tyndp2024.entsoe.eu/projects-map/transmission/1048 https://eunice-group.com/projects/greece-africa-power-interconnector-gap-interconnector/
215	Atlantic SuperConnection, Iceland-UK	Being considered	1800	/	/	1700 subsea	/	https://atlanticsuperconnection.com/
216	HIP Atlantic Project, UK	Being considered	2000	/	/	/	/	https://indpow.co.uk/hecate-independent-power-ltd/
217	NATO-L, Canada-Ireland	Being considered	6000	/	/	3500 subsea	/	https://www.nato-l.org/
218	Angola VSC, Angola	Being considered	2000	/	/	/	/	https://www.enerdata.net/publications/daily-energy-news/angola-signs-mou-develop-2-gw-hvdc-transmission-line-project.html

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