European Onshore Power Supply (OPS) Directory

ABS™

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EU-27 Member States

Austria

AUSTRIA — INLAND							
Port	**Location / berth**	**Vessel type**	**Status**	**Connections**	**Frequency / voltage / capacity**	**Comments**	**Source**
Linz	Trockengüterlände, rkm 2129 R	Cargo	Operational	2 terminals (3 CEE each)	400 V / 16–32–63 A	Mandatory after 60 min.	viadonau OPS · viadonau Rules
Wildungsmauer	Public mooring, rkm 1895 R	Cargo	Operational	2 terminals (3 CEE each)	400 V / 16–32–63 A	Mandatory after 60 min.	viadonau OPS · viadonau Rules
Vienna	Brigittenau II, rkm 1932 R	Cargo	Operational		400 V / 16–32–63 A		viadonau · BMIMI
Aschach	Lände Aschach + Öffentliche Lände Aschach	Cargo	Mooring works under construction; OPS included			FAIRway Danube II.	viadonau
Linz	Passenger landings	River cruise	Operational	Up to 13 ships	Powerlock	7 landings. Mandatory >2 h.	viadonau
Engelhartszell	Passenger landings	River cruise	Operational	6	Powerlock	3 terminals. Mandatory >2 h.	LINZ News · LINZ Rules
Melk	Passenger landings	River cruise	Operational	5	Powerlock		LINZ News · LINZ Rules
Krems	Passenger landings	River cruise	Operational	6	Powerlock		EVN · viadonau

AUSTRIA — INLAND							
Port	**Location / berth**	**Vessel type**	**Status**	**Connections**	**Frequency / voltage / capacity**	**Comments**	**Source**
Linz	Handelshafen	River cruise (winter)	Operational	8 stations	Powerlock / CEE	Mandatory after first working day of winter lay-up.	EVN · viadonau
Vienna	Reichsbrücke (9) + Freudenau (4)	River cruise	Operational (May 2026)	13	Powerlock	Up to 50 ships can be supplied simultaneously; connection mandatory for stays over 2 h.	LINZ Tariff · LINZ Plan · viadonau
Ennshafen	Port	Cargo / cabin ships	Under construction, in service by end 2027	19 boxes (5 modules)	up to 400 A	CEF 101174873.	Wien News · Wien Sites · Wien Rules

Belgium

BELGIUM — MARITIME							
Port	**Location / berth**	**Vessel type**	**Status**	**Connections**	**Frequency / voltage / capacity**	**Comments**	**Source**
Antwerp	Antwerp Euroterminal (AET)	RoRo / ConRo	Planned 2026	2	5 MW total (2 connections)	Commissioning not confirmed.	PoAB
Antwerp	PSA Europa Terminal	Container	Under construction	1 mobile	7.5 MW	First container OPS in the port. Target 2026.	PSA
Zeebrugge	ICO, Bastenakenkaai	RoRo / PCTC	Operational (Jun. 2026)	1	11 kV; 2 MVA	First commercial RoRo OPS in Belgium. Expandable.	NYK · Equans · Flows
Zeebrugge	Zweedse Kaai cruise terminal	Cruise	Under construction, H1 2027	2	6.6/11 kV; 16 MVA for first connection	First connection targeted H1 2027; second installation planned.	PoAB · Equans · TED
Ostend	Hendrik Baelskaai	Fishing / inland	Operational (2022)	4 cabinets			Equans

BELGIUM — INLAND							
Port	**Location / berth**	**Vessel type**	**Status**	**Connections**	**Frequency / voltage / capacity**	**Comments**	**Source**
Ghent	Alphonse Sifferdok	Inland barge	Operational	2 cabinets × 4	400 V / 32–63 A		North Sea Port
Ghent	Grootdok Rigakaai	Inland	Operational	4 cabinets × 3	400 V / 63 A, 125 A, Powerlock 630 A	River cruise no longer berths here (from Mar 2025).	North Sea Port — OPS locations · North Sea Port
Ghent	Grootdok pier head	River cruise	Operational (Mar 2025)	4 cabinets		Mandatory berth and connection. Max 4 ships.	North Sea Port
Antwerp	Noordkasteel, Kaai 75	Inland barge	Operational	7 cabinets	max 63 A		Binnenvaart Kennis
Antwerp	Kaai 85–87	Tank barges	Operational	2 cabinets	max 125 A		Binnenvaart Kennis
Antwerp	Kanaaldok B2 waiting berths	Inland barge	Operational	14 cabinets × 3	32–63 A	Generator ban where OPS is available.	Binnenvaart Kennis · Flows
Antwerp	Kattendijkdok-Westkaai	River cruise	Operational	3 cabinets	up to 400 A	Stad Antwerpen / Equans.	Binnenvaart Kennis · Equans
Antwerp	Stadshaven / Scheldekaaien	Inland / river cruise	Under construction	24 cabinets (programme)		Napoleonkaai, Kattendijkdok, Asiadok, Houtdok, Het Steen.	Equans
Evergem	Waiting harbour / Ringvaart	Inland barge	Operational			De Vlaamse Waterweg.	Shore Power in Flanders
Wijnegem	Albertkanaal lock	Inland barge	Operational			De Vlaamse Waterweg.	Shore Power in Flanders · Flows

Croatia

CROATIA — MARITIME							
Port	**Location / berth**	**Vessel type**	**Status**	**Connections**	**Frequency / voltage / capacity**	**Comments**	**Source**
Rijeka	AGCT / Brajdica	Container	Design-and-build procurement; 2027 target, commissioning unconfirmed	2 (or 1)	2 × 3.75 MW or 1 × 7.5 MW	CEF 101175456 POR2CORE-OPS. Same contract as RGWCT.	LUR plan · Tender notice.
Rijeka	RGWCT / Zagrebačka obala	Container	Design-and-build procurement; 2027 target, commissioning unconfirmed	2 (or 1)	2 × 3.75 MW or 1 × 7.5 MW	Same CEF contract. Gateway opened 2025; ship OPS is a separate package.	LUR plan · Tender notice.

Denmark

DENMARK — MARITIME							
Port	**Location / berth**	**Vessel type**	**Status**	**Connections**	**Frequency / voltage / capacity**	**Comments**	**Source**
Copenhagen	Langelinie	Cruise	Operational (2025)	2	50/60 Hz; HV	By & Havn owns; CMP operates. 5 connection points in total; two ships at a time until the permanent Nordhavn station (2028), then four simultaneous.	By & Havn · CMP · Potent-X
Copenhagen	Oceankaj (Ocean Quay)	Cruise	Operational (2025)	3	50/60 Hz; HV	Same plant as Langelinie.	CMP · Potent-X
Copenhagen	Søndre Frihavn	Ro-Pax (DFDS Oslo; Gotlandsbolaget)	Operational	1		CMP plant, separate from the cruise system.	CMP
Aarhus	Cruise quays 129–131	Cruise	Operational		50/60 Hz; up to 10 MW		Aarhus Havn · Green Power Denmark
Aarhus	Container terminal, Østhavnen	Container	Under construction	Phase 1: 2 ships (1×7.5 MVA + 1 feeder). Phase 2 (by 2030): up to 5 (Inros design)	50/60 Hz; 6.6 or 11 kV; IEC/IEEE 80005-1	Movable CMS along the quay.	Aarhus Havn · Inros Lackner
Aarhus	Fast-ferry berths	Fast ferry (Molslinjen)	Operational			Short turnarounds often too brief to connect.	TV2 Østjylland

DENMARK — MARITIME							
Port	**Location / berth**	**Vessel type**	**Status**	**Connections**	**Frequency / voltage / capacity**	**Comments**	**Source**
Esbjerg	Vestkraftkaj 504/505, 506/507, 508/509	Offshore / supply	Operational	3 points per pair	50–60 Hz; 400/440/690 V; 4×250 A	IEC 80005-3 (LV). Port total: 15 connection points; 4 MVA total.	Port Esbjerg
Esbjerg	Tampenkaj 76/77	Offshore / supply	Operational	1	50–60 Hz; 1×800 A		Port Esbjerg
Esbjerg	Geminikaj 719; 720	Offshore / supply	Operational	1 per quay	50 Hz; 400 V; 1×500 A		Port Esbjerg
Esbjerg	Doggerkaj, quay 85	Offshore / installation	Operational	1	50 Hz; 690 V; 1×1200 A		Port Esbjerg
Esbjerg	Humberkaj 201	Offshore / supply	Operational	1	50 Hz; 400 V; 1×600 A		Port Esbjerg
Kalundborg	Østhavnen	Laid-up commercial / supply	Operational	Up to 3 ships		Designed for two; trial showed three.	Kalundborg Havn
Helsingør	Øresundslinjen ferry berth	Battery ferry	Operational	1	10.5 kV; 600 A; 10.5 MW	**Battery charging**, not HVSC for conventional ships.	Øresundslinjen
Hirtshals	Fjord Line berth	Ro-Pax (*Fjord FSTR*)	Operational (late 2025)	1			Færgenyt
Fredericia (ADP)	Kaj 18 and Kaj 19	Container	Contracted (PowerCon); in service 2027	2 berths / 4 LCP	6/10 kV supply; containerised OPS		ADP · Procurement Award Notice
Fredericia (ADP)	Kaj 24	Ro-Ro	Planned 2026			Ferry berth moved here for the kaj 19 works.	ADP · ADP — port expansion

DENMARK — MARITIME							
Port	**Location / berth**	**Vessel type**	**Status**	**Connections**	**Frequency / voltage / capacity**	**Comments**	**Source**
Skagen	Kaj 9 / Krydstogtkajen	Cruise	Under construction; in service season 2028	1	16 MW	Delivery targeted late 2027; service from cruise season 2028.	Skagen Havn
Aalborg	Østhavnen	Commercial (mobile)	Contracted (Leap Solutions); in service by end 2027	3 mobile OPS units	400–690 V; 10 kV coupling; 2 battery units, 10 MWh total	Hybrid / not HVSC.	Leap Solutions
Rønne**	—	Cruise / installation vessels	On hold — DSO refused 16 MVA; no connection date		16 MVA requested	Island grid limit; plant not built.	TV2 Bornholm

Estonia

ESTONIA — MARITIME							
Port	**Location / berth**	**Vessel type**	**Status**	**Connections**	**Frequency / voltage / capacity**	**Comments**	**Source**
Tallinn (Old City / Vanasadam)	Quays 3, 5, 7, 12, 13 (terminals A and D)	Ro-Pax	Operational	5 piers	11 kV; 14 MW total; IEC/IEEE 80005-1/-2	Shore-power use required for stays over 2 h when the vessel is compatible and capacity is available. No cruise OPS on these berths.	Port rules · Ärileht
Tallinn (Old City / Vanasadam)	Quays 26 and 27	Cruise (also sized for future hybrid / electric Ro-Pax.)	In procurement; substation construction planned for autumn 2026; cruise OPS targeted by 2030	2 OPS units	Grid transformers: 110/10 kV, 2 × 80 MVA; OPS substation: 11/6.6 kV; 60/50 Hz converter.	PoTOPS / CEF-AFIF. First cruise OPS at Tallinn.	Port of Tallinn · Cruise Europe · CINEA · Taiyo
Muuga	—	Ro-Pax / container	Contracted (Apr. 2026); handover by 1 Nov. 2027			TWIN-PORT VI with Helsinki Vuosaari.	Tender notice · Port of Tallinn

Finland

FINLAND — MARITIME							
Port	**Location / berth**	**Vessel type**	**Status**	**Connections**	**Frequency / voltage / capacity**	**Comments**	**Source**
Helsinki	Katajanokka	Ro-Pax	Operational		400 V; 50 Hz; up to 4 MW	Stockholm route.	Helsinki Katajanokka · Theseus
Helsinki	South Harbour, Olympialaituri EO2	Ro-Pax	Operational	1	11 kV	TwinPort 4.	Helsinki EO2 · Moottori
Helsinki	West Harbour, Länsiterminaali 2 (LJ7, LJ8)	Ro-Pax	Operational	2		TwinPort 3, completed 2023. Tallinn turnarounds often <1 h; used mainly on overnight stays.	Helsinki Projects · Helsinki West
Helsinki	Vuosaari, Quay C	Ro-Pax	Operational	1 OPS system; 2 cable cranes	4 MW transformer	Hansalink 2.	Helsinki Vuosaari · Comatec · Helsinki Projects
Helsinki	Vuosaari, RoRo / LoLo	Ro-Ro / container	Planned (target 2027); study phase			TWIN-PORT VI with Muuga.	Helsinki Development · Helsinki TWIN-PORT
Helsinki	Hernesaari	Cruise	Planned			Grid reinforcement required; no plant in service.	Helsinki Hernesaari
Naantali	Berth 27	Ro-Pax	Operational	1	~3.5 MW	Kapellskär also equipped.	Naantali Port · Naantali Energy · Stockholm Ports

FINLAND — MARITIME							
Port	**Location / berth**	**Vessel type**	**Status**	**Connections**	**Frequency / voltage / capacity**	**Comments**	**Source**
HaminaKotka	Mussalo quays B and C	Container	Contracted (ABB, 2026); completion targeted Aug 2028	6	6.6 kV; 50/60 Hz; 4 MVA/point; max 10 MVA	Up to six ships. ABB contractor (2026).	HaminaKotka OPS · HaminaKotka ABB
Kemi	Existing connection	Not specified	Operational	1 existing OPS system		Long-standing point.	Kemi Project
Kemi	Ajos, quay 7	Commercial	Under construction; commissioning 2027	2 ships	3 voltage levels and 2 frequencies; ratings not published	Arctic SSE.	Kemi Project · Kemi CEF
Pori	Tahkoluoto, berths 29–30	Liquid bulk	OPS infrastructure scheduled for Aug 2026; ship connections not confirmed			Outside typical container/passenger OPS scope.	Pori Power2Quays
Vaasa	Ferry berth	Ro-Pax (*Aurora Botnia*)	Operational	1		Also used in Umeå.	Wasaline
Mariehamn	Ferry berth	Ro-Pax	Operational			Viking Line: shore power available; Turku-line calls often too short to connect.	Viking Line
Turku	Ferry Terminal	Ro-Pax	Planned			Cable ducts in the terminal works; no OPS plant yet.	Turku Port
Rauma	RoRo 1 (2), RoRo 6 (1), RoRo 7 (2), Laitsaari (4)	Ro-Ro / general cargo	Operational	9 outlets across 5 berths	6.3 kV AC; 50 Hz; max 1.25 MVA per connection	Baltic Comp. Points also feed hybrid cranes. Container-quay extension planned as a later phase	Rauma Services · Rauma Presentation

France

FRANCE — MARITIME							
Port	**Location / berth**	**Vessel type**	**Status**	**Connections**	**Frequency / voltage / capacity**	**Comments**	**Source**
Marseille	Terminal Corse, postes 68, 70 (then 74, 78, 80)	Ro-Pax	Operational	5	HV		GPMM Plan
Marseille	Cap Janet 5, 6, 7, 8, 11, 12	Ro-Pax	Operational at berths 5–6		HV	CENAQ phase 1.	GPMM Cap Janet
Marseille	MPCT 162, 163, 181, 183	Cruise	Operational	3 ships	60 Hz; up to 16 MW/ship		GPMM Plan · GPMM Cruise · Franceinfo
Marseille	CENAQ 2 J4; Corse 42/44/48; Mourepiane; repair docks; Pinède Nord; Digue du Large	Mixed	Under construction / planned		HV	Remaining CENAQ Phase 2 sites.	GPMM Plan
Le Havre	Pierre Callet	Cruise	Operational (Oct. 2025)	1	HV	First ship *MSC Poesia*.	HAROPA Launch
Le Havre	Roger Meunier	Cruise	Under construction; Q3 2026	3	Up to 14 MW per quay; 30 MW across the three cruise quays		HAROPA Meunier · HAROPA Ratings
Dunkirk	Terminal des Flandres	Container	Operational	1	HVHV; 8 MW		Dunkerque OPS
Dunkirk	Cross-Channel ferry berths	Battery ferry	Planned; target 2030		Fast charge	Not classic HVSC.	Dunkerque Ferries
Toulon	Minerve, Corse and Fournel	Cruise / Ro-Pax	Operational for ferries; cruise connections tested	3	50/60 Hz; 6.6/11 kV	Compatible ships only; many calls at unequipped La Seyne; short calls often unused.	Toulon Métropole

FRANCE — MARITIME							
Port	**Location / berth**	**Vessel type**	**Status**	**Connections**	**Frequency / voltage / capacity**	**Comments**	**Source**
Sète	Môle Masselin (2), Quai H, Quai G	Ro-Pax	Operational	4	50/60 Hz; 6.6 or 11 kV; 6.3 MW (1×2.6 + 2×1.8)	Jean Nicoli tested in 2024; first commercial connection in 2025	Schneider Electric · Mer et Marine · Port de Sète
Sète	Quai d'Alger	Cruise	Planned; target 2028		HV		Sète Report
Cherbourg	Cruise berth	Cruise	Tendered; works scheduled to start in 2027		50/60 Hz; 11/6.6 kV; 25 MVA grid connection shared with ferry berths	Normandy Docks Power.	Normandy Report · Cherbourg Tender
Cherbourg	3 ferry berths	Ro-Pax	Tendered; works scheduled to start in 2027	3	50/60 Hz; 11/6.6 kV	Same NDP plant.	Normandy Report · Cherbourg Tender
Caen-Ouistreham	Ferry berth	Ro-Pax	Under construction; Dec. 2026	1	20 kV grid intake; 11 kV and 400 V conversion; 9 MVA grid connection	NDP.	Normandy Report · Ouistreham Tender
Nice	Commerce, Infernet, Ribotti, Île de Beauté	Ro-Pax / cruise	Design tender published in 2026			Works design, not construction.	Nice Tender
Calais	TIDES	Battery ferry	Planned; ~2030 at earliest	Up to 3	Fast charge 20–35 MW / ~45 min; 100 MW RTE	Not classic cold-ironing.	Calais Port
Bastia	Commerce port	Ro-Pax	Contracted (Aug. 2025)		Vendor: 11 kV; 50/60 Hz; fuel cell ~2 MW	Hydrogen generating station for shore supply. Not grid HVSC.	Bastia Award · Dephy Project
La Rochelle	Bassin à flot, South Quay (BF17), Quai Alcyone, Quai Lombard + drydocks	Ships <120 m	Operational	12 (9 quayside + 3 at drydocks/ South Quay)	400 V; 63–600 A	LV service craft / small ships.	La Rochelle OPS · La Rochelle Bulletin

FRANCE — MARITIME							
Port	**Location / berth**	**Vessel type**	**Status**	**Connections**	**Frequency / voltage / capacity**	**Comments**	**Source**
Bordeaux (GPMB)	Pauillac cruise; Bordeaux cruise; Bassens container/Ro-Ro	Cruise / cargo	Design-and-build tender published (2026))				Bordeaux Tender

FRANCE — INLAND							
Port / waterway	**Location / berth**	**Vessel type**	**Status**	**Connections**	**Frequency / voltage / capacity**	**Comments**	**Source**
Seine axis (HAROPA + VNF)	Le Havre–Nogent network	Cargo / river cruise	Operational; expanding	Target **110** cabinets by 2026 (92 cargo, 18 cruise)	Cargo: 16/32/63 A; cruise: 400 A; wintering: 125 A;		HAROPA Network · VNF Specs
Nord–Pas-de-Calais / Seine–Escaut	Lille/Lomme, Douai, Arques and others	Inland	Operational	95 water/electricity cabinets across the network	Voltage and socket ratings vary by site		VNF Network · VNF Inventory
Saône / Rhône (Lyon)	Saône/Rhône landing sites	River cruise	Operational at 8 documented sites; further sites in progress	13 cabinets at those 8 sites; 17 across 11 programme sites, including works in progress		Further Saône freight cabinets 2028–2029 via DSP.	VNF Sites · VNF 2026
Bordeaux city	CAlbert Londres, Ariane, Jefferson, Lafayette pontoons	River / small passenger	Operational	4 pontoons	Powerlock outlets; up to 250 kVA (published maximum)		Bordeaux Pontoons · Bordeaux Scope

Germany

GERMANY — MARITIME							
Port	**Location / berth**	**Vessel type**	**Status**	**Connections**	**Frequency / voltage / capacity**	**Comments**	**Source**
Kiel	Ostseekai 27–28	Cruise	Operational (2nd plant Sep. 2025)	2	50/60 Hz; 2×16 MVA		Kiel terminals · Kiel OPS
Kiel	Schwedenkai	Ro-Pax	Operational	1	50/60 Hz; 6.6/11 kV; 5 MVA		Kiel OPS
Kiel	Ostuferhafen	Cruise / ferry / Ro-Ro	Operational	4 berths served by the cruise/ferry plant; 2 by the Ro-Ro plant; up to 3 ships simultaneously	Cruise/ferry: 16 MVA, 50/60 Hz, 6.6/11 kV; Ro-Ro: 4.5–5 MVA, 50 Hz, 6.6/11 kV	Two installations on the same terminal.	Kiel opening · Kiel facilities
Kiel	Norwegenkai	Ro-Pax	Operational	1	50 Hz; 10 kV; 4.5 MVA		Kiel OPS
Hamburg	Cruise Center Altona (CC2)	Cruise	Operational	1	HV; up to 12 MVA		HPA OPS
Hamburg	Cruise Center Steinwerder (CC3)	Cruise	Operational	1	HV; up to 16 MVA		HPA OPS
Hamburg	Cruise Center HafenCity (Chicagokai)	Cruise	Operational (from May 2026)	Main berth + extra points for a smaller ship	IEC/IEEE 80005-1; up to 14 MVA	Autonomous connection vehicle, ~180 m cable chain.	HafenCity · HPA OPS

GERMANY — MARITIME							
Port	**Location / berth**	**Vessel type**	**Status**	**Connections**	**Frequency / voltage / capacity**	**Comments**	**Source**
Hamburg	Eurogate CTH	Container	Operational	3	6.6 kV; 7.5 MVA/point	Three connection systems; HPA states a limit of two ships simultaneously, up to 4.0 MVA each.	HPA OPS
Hamburg	HHLA Tollerort (CTT)	Container	Operational	1	7.5 MVA		HPA OPS
Hamburg	HHLA Altenwerder (CTA)	Container	Installed / commissioning	3	7.5 MVA/point		HPA OPS
Hamburg	HHLA Burchardkai (CTB)	Container	Installed / commissioning	3	7.5 MVA/point		HPA OPS
Bremerhaven	Nordhafen Autoterminal	PCTC / Ro-Ro	Operational (Jan. 2026)	1	HV	First connection: Wallenius Wilhelmsen's Lake Shirasagi	bremenports opening
Bremerhaven	Nordhafen Ost	Ro-Ro	Installed; commercial ship connection not confirmed		50/60 Hz; 6.6/11 kV; 2.5/4 MVA	Mobile box ~100 m.	bremenports projects
Bremerhaven	MSC Gate	Container	Completion listed as Apr. 2026; commercial ship connection not confirmed		6.6 kV; 50/60 Hz; 7.5 MVA		bremenports projects
Bremerhaven	CTB, KM 2.200–2.590	Container	Under construction; late 2026 / early 2027		6.6 kV; 50/60 Hz; 7.5 MVA; rail-mounted CMS		bremenports projects

GERMANY — MARITIME							
Port	**Location / berth**	**Vessel type**	**Status**	**Connections**	**Frequency / voltage / capacity**	**Comments**	**Source**
Bremerhaven	NTB, KM 3.810–4.160	Container	Under construction; late 2026 / early 2027		6.6 kV; 50/60 Hz; 7.5 MVA; rail-mounted CMS		bremenports projects
Bremerhaven	Columbuskaje berth A	Cruise	Under construction; target 2027	1 (north section)	20 kV grid feed; 6.6/11 kV ship supply; 50/60 Hz; 10/16 MVA respectively		bremenports projects
Rostock	Warnemünde P7 / P8	Cruise	Operational	2	HV		Rostock Port
Lübeck-Travemünde	Skandinavienkai, 5 and 6	Ro-Pax	Operational	2	HV		Port of Lübeck
Lübeck-Travemünde	Skandinavienkai, 4, 5a, 7	Ro-Pax	Planned 2027–2028	3	HV	Baltic-Green-NET.	Port of Lübeck · Hafenrundschau
Cuxhaven	Berth 9.3	Offshore / supply	Operational	1	60 Hz; 440 V; 630 kW	LV; NPorts.	NPorts · NPorts berth
Puttgarden	Ferry berth	Battery ferry	Operational		Charging, not IEC 80005 HVSC		Scandlines opening

GERMANY — INLAND							
Port / waterway	**Location / berth**	**Vessel type**	**Status**	**Connections**	**Frequency / voltage / capacity**	**Comments**	**Source**
Duisburg	Port-wide inland berths, including DGT	Cargo / river cruise	Operational	69 connection points	Cargo points: 230/400 V; 50 Hz; max 44 kW / 63 A per point		duisport · Duisburg manual
Cologne / Düsseldorf / Mainz	Schiffs-TankE network	Inland	Operational			Cologne Rheinauhafen: shore-power use planned to be mandatory at the new berths (target 2027)	RheinEnergie · WSA Rhein
Hamburg	Billwerder Bucht	Inland	Operational		400 V	Connect4Shore; port-wide inland-berth rollout targeted by 2030	HPA shore power · HPA terms
Bremen / Bremerhaven	Inland berths	Inland	Operational		Hüttenhafen: 400 V; 50 Hz; other berths not specified	Connection obligatory under harbour dues rules (from 2021).	bremenports inland · Hüttenhafen specification
Koblenz	Rheinhafen basin berths	Inland	Operational	7 columns (2 sockets each)	25.2 kW per connection		Stadtwerke Koblenz
Bamberg	Passenger landings, Regnitzstraße	River cruise	Operational	Up to 6 ships			bayernhafen
Stralsund	Stadthafen, berths 02, 03, 04 and 07	River cruise / other vessels	Operational	4 cabinets	400 V (Powerlock up to 400 A; CEE 32–125 A); 230 V (16 A)		Stralsund city · Port tariff 2026

Greece

GREECE — MARITIME							
Port	**Location / berth**	**Vessel type**	**Status**	**Connections**	**Frequency / voltage / capacity**	**Comments**	**Source**
Igoumenitsa	Three Ro-Pax positions (numbers not published)	Ro-Pax	Contracted; 18 months design–commissioning	3	2 × 3 MVA + 1 × 0.5 MVA	CEF project: ALFION-INFRA; contractor: Paralos	HEDNO contract
Rafina	Four ferry positions (numbers not published)	Ferry	Planned (CEF DECOMPRES; project end Sep. 2028)	4	4 × 1.5 MVA	DECOMPRES. Coordinator: Lavrio Port Authority.	HEDNO DECOMPRES · Research article

Hungary

HUNGARY — INLAND							
Port	**Location / berth**	**Vessel type**	**Status**	**Connections**	**Frequency / voltage / capacity**	**Comments**	**Source**
Budapest	Pest lower quay, Jászai Mari tér–Dráva utca (Carl Lutz rakpart)	River passenger / hotel ships	Operational	25 cabinets	LV (rating unpublished)	Municipal city quay (Főváros), not the TEN-T Csepel Freeport. Built with the FINA 2017 quay works. Lower quay is floodable.	Budapest City Council · Budapest procurement

Ireland

IRELAND — MARITIME							
Port	**Location / berth**	**Vessel type**	**Status**	**Connections**	**Frequency / voltage / capacity**	**Comments**	**Source**
Cork (Ringaskiddy)	CCT2 / CORE 1 — 200 m container / multi-purpose berth extension	Container / multi-purpose	Quay under construction; substantial completion targeted mid-2026. OPS included in the funded project; commissioning date not confirmed.			Official CEF package includes on-shore power supply infrastructure with the quay. Same grant also covers Ringaskiddy West DWB.	Port of Cork · Oireachtas
Cork (Ringaskiddy)	Deepwater Berth (DWB) extension, 182 m	Multi-purpose / ORE	Planned; planning permission renewed Dec 2025. OPS included in the funded project; construction and commissioning dates not confirmed.			Official CEF description includes OSP infrastructure.	Port of Cork · Oireachtas
Killybegs	Fishing berths (12 equipped)	Trawlers	Operational		50/60 Hz converter; ship-side voltage and capacity not published	Shore power for fishing trawlers	DAFM · ABB

Italy

ITALY — MARITIME							
Port	**Location / berth**	**Vessel type**	**Status**	**Connections**	**Frequency / voltage / capacity**	**Comments**	**Source**
Genoa	PSA Genova Pra'	Container	OPS available; commercial ship connections not confirmed	2 berths; 2 ships simultaneously	6.6 kV; 60 Hz; 7.5 MVA (as published for the plant)		Genoa OPS
Genoa	Ship-repair area	Repair / yard	Operational (yard supply)			Not passenger/container HVSC.	Genoa OPS
Genoa	Ponte dei Mille Ponente; Ponte Andrea Doria Levante	Cruise (ferry later)	Under commissioning; first electrical tests planned Oct 2026; operation targeted 2027	2 cruise berths initially; ferry connections later	Up to 60 MW planned for cruise OPS; ferry expansion later	GNV ferry PNRR package not tendered; completion not before 2028.	Genoa update · Shipping Italy
Savona	Vecchia Darsena cruise	Cruise	Plant complete (Jul 2026); operator being appointed	2 (not simultaneous)	11 kV; 50/60 Hz; 10 MW (project design)	PowerMove mobile cable handler	Savona completion · Savona design · PowerMove
Vado Ligure	Container terminal	Container	Under construction			TEN-T core (Vado).	Savona completion
La Spezia	Molo Garibaldi	Cruise	Tested (Costa Toscana Oct/Dec 2025); first Italian OPS **operator** appointed Sep 2026 (SEMP, 9+9 months); tariff not yet published	1 CMS (Shore Link)		Direct award to existing electrical concessionaire pending full tender.	La Spezia tests · Shipping Italy
La Spezia	Molo Fornelli; Fossamastra	Cargo	Planned				La Spezia projects

ITALY — MARITIME							
Port	**Location / berth**	**Vessel type**	**Status**	**Connections**	**Frequency / voltage / capacity**	**Comments**	**Source**
Livorno / Piombino / Portoferraio	Named passenger/cargo berths (AdSP Mar Tirreno Settentrionale)	Ro-Pax / cruise / cargo	Works advanced; commercial service not confirmed			Joint AdSP programme; OPS works cover all three ports; commercial ship service not confirmed.	Corriere Marittimo
Civitavecchia	3 cruise, 4 Ro-Ro/Ro-Pax and 2 multipurpose berths	Cruise / Ro-Pax / Ro-Ro	Under construction (HV grid reinforcement)	9		3 large cruise + 4 Ro-Ro/ Ro-Pax + 2 multi.	Civitavecchia port
Venice	Marghera, Canale Nord	Cargo / industrial	Funded works			CUP F78I21001320001.	Venice Marghera
Venice	Marittima (cruise)	Cruise	Funded; environmental permitting ongoing (2026)		HV subsea cable to Terna Sponda Nord	CUP F79J21005960001. Separate from Marghera.	Venice Marittima
Ancona	Historic port, berths 8–16	Ro-Pax / cruise	Civil/electrical complete by PNRR 30 Jun 2026; service not activated	6 equipped berths; commercial connections not confirmed	9 MW MV grid connection (not ship-side rating)	Commercial ship service not confirmed.	Ancona completion · Ancona equipment · Ancona grid
Gioia Tauro	Container quay (first 900 m)	Container	First containership connection Jul 2026 (MSC Mirja); two container sockets tested; one Ro-Ro socket installed; HV substation and further outlets pending.	2 container + 1 Ro-Ro installed; further outlets planned.	~7 MW supplied to MSC Mirja during the test; permanent system capacity pending HV substation.	Phase 2 awarded Jul 2026 (SAET–Suardi). Do **not** count MCT crane MW as OPS.	Gioia Tauro port · Shipping Italy
Ravenna	Porto Corsini	Cruise	Cable ducts complete Aug 2026; OPS commissioning targeted by end-2026; not confirmed	4 sockets in Design (simultaneity 0.5)	132 kV feed; ~23 MW at quay; 2 × 16 MVA 50/60 Hz converters (design)	Supply linked to dedicated PV on former SAROM site.	Ravenna port · Ravenna design · PortoRavennaNews

ITALY — MARITIME							
Port	**Location / berth**	**Vessel type**	**Status**	**Connections**	**Frequency / voltage / capacity**	**Comments**	**Source**
Trieste	City cruise berths	Cruise	Infrastructure complete; commercial activation not confirmed			Operator appointment pending	AdriaPorts
Trieste	Pier V / Riva Traiana / Pier VII	Ro-Ro / container	Contracted; installation and commercial commissioning not confirmed	Molo V/Riva Traiana: 3 fixed points; Molo VII: mobile outlet along first ~400 m (design).	Ro-Ro: 11 kV / 3.5 MVA; container: 6.6 kV/ 7.5 MVA (design specifications).		Trieste contractor · Trieste designer
Bari	Darsena di Ponente	Ro-Ro / Ro-Pax / cruise	Works ongoing; no ship service confirmed.	2	20 MW planned supply for berths 10–11	Named PNRR/PAC plant.	Bari–Brindisi decision · TrasportoEuropa
Brindisi	Punta delle Terrare	Ro-Pax	Works ongoing; no ship service confirmed.	2 simultaneous Ro-Pax	Converter 6.5 MW (expandable)		Bari–Brindisi decision · TrasportoEuropa
Naples	Molo Angioino / Stazione Marittima	Ferry / cruise	Cruise OPS under construction; ship service not confirmed				Naples contractor · SeaReporter
Cagliari	Porto Storico; Porto Canale	Passenger / cargo	Under construction		22 MW (Porto Storico/Ro-Ro) + 13 MW (Porto Canale), planned system capacities	Ministerial long-stop cited to 31 Dec 2027.	Sardinia capacities · Sardinia schedule

Latvia

LATVIA — MARITIME							
Port	**Location / berth**	**Vessel type**	**Status**	**Connections**	**Frequency / voltage / capacity**	**Comments**	**Source**
Ventspils	Berth 16 (Stena Line ferry terminal)	Ro-Pax	Under construction; berth works scheduled for early 2027	At least 2 simultaneous Ro-Pax connections (project specification)	4 000 kW total	First high-capacity OPS in the port; later phases planned for berths 14 and 15	Ventspils project · Ventspils works.

Lithuania

LITHUANIA — MARITIME							
Port	**Location / berth**	**Vessel type**	**Status**	**Connections**	**Frequency / voltage / capacity**	**Comments**	**Source**
Klaipėda	Quays 80–81, Central Klaipėda Terminal	Ro-Ro / Ro-Pax	Installed; testing since Apr 2026; commercial use not confirmed	3		Planned quay layout: 80, 80A and 81A. Up to four ships across both terminals.	Klaipėda Port · Klaipėda Diena
Klaipėda	Quay 128, Klaipėda Container Terminal	Ro-Ro / Ro-Pax	Installed; testing since Apr 2026; commercial use not confirmed	1		Same first-phase system.	Klaipėda Port · Port project
Klaipėda	Fleet Base, quay 123	Port service craft	Installed (2025); operational use not confirmed	1		Waste-collection / pilot boats, not merchant Ro-Pax.	Port project · Klaipėda Port · Atvira Klaipėda
Klaipėda	Other terminals (cruise and container)	Cruise / container	Design (phase 2); target 2030			No berth numbers released.	Klaipėda Port

Malta

MALTA — MARITIME							
Port	**Location / berth**	**Vessel type**	**Status**	**Connections**	**Frequency / voltage / capacity**	**Comments**	**Source**
Valletta (Grand Harbour)	Pinto Wharf (Floriana)	Cruise	Operational	13 points on the north side with Deep Water Quay	50/60 Hz; 6.6 / 11 kV; 64 MVA shared system; up to 5 ships (design)	Pinto 4/5 and Lascaris Wharf being merged; fifth-ship connection depends on quay completion.	IM points · IM quay · Bartek · Port Strategy
Valletta (Grand Harbour)	Deep Water Quay (Marsa)	Cruise	Operational	Included in the 13 north-side points	North converter; up to 4 ships on the north side		IM points · IM completed
Valletta (Grand Harbour)	Boiler Wharf (Senglea)	Cruise	Operational	4	Up to 16 MVA for one ship		IM points · IM completed
Valletta (Grand Harbour)	Ras Ħanżir; Laboratory Wharf; Magazine Wharf; Palumbo (2 quays); Mediterranean Maritime Hub	Cargo / Ro-Ro / repair	Under construction	>30 across 10 quays (project)	HV and LV; ratings not fully published	OPS SHR. Ras Ħanżir quay is a separate civil project.	IM south · Malta Independent
Marsaxlokk (Malta Freeport)	Terminal 1 and Terminal 2 North Quay	Container	Under construction; commissioning not confirmed		HVSC; ratings not published	Phase 1.	Freeport · Times of Malta
Marsaxlokk (Malta Freeport)	Terminal 1 West Quay and Terminal 2 South Quay	Container	Contract awarded May 2026		HVSC; ratings not published	Phase 2.	TED award

Netherlands

NETHERLANDS — MARITIME							
Port	**Location / berth**	**Vessel type**	**Status**	**Connections**	**Frequency / voltage / capacity**	**Comments**	**Source**
Amsterdam	Passenger Terminal (Piet Heinkade / Veemkade)	Sea cruise	Operational (since 2025)	1 sea cruise	50/60 Hz; 6.6 / 11 kV; 16 MW; IEC 80005-1	Mandatory for sea cruise from 1 Jan. 2027.	CPA specs · Amsterdam opening · CPA rules
Rotterdam	Stena Line, Hoek van Holland	Ro-Pax	Operational	2	11 kV; 60 Hz; 6 MVA shore converter (5.3 MVA original combined load design)	Two ships at once. Onboard transformers upgraded 2021–22.	ABB system · ABB upgrade
Rotterdam	Holland Amerikakade (Cruise Port)	Cruise	Operational (since 2025)	1	HV; CMS in 230 m cable duct	First ship AIDAnova.	Rotterdam cruise
Rotterdam	DFDS Vlaardingen (JinLing Ro-Ro berth)	Ro-Ro	Operational	1	1.8 MW	Shore power at the other two berths remains under consideration.	Rotterdam DFDS
Rotterdam	Rotterdam Shortsea Terminals	Shortsea container	Operational (pilot)	1	LV; 50 Hz	Pilot, not IEC 80005-1 HV.	Rotterdam RST · RST update
Rotterdam	Heerema (Landtong Rozenburg)	Offshore	Operational	2		Offshore construction vessels.	Rotterdam Heerema
Rotterdam	Boskalis, Waalhaven	Offshore	Operational	2		Dredging / offshore fleet.	Rotterdam Boskalis · Boskalis berths
Rotterdam	Royal Roos, Merwehaven	Seagoing (lay-by)	Operational	1	400/440/690 V	Lay-by / repair, not deep-sea HVSC.	Royal Roos

NETHERLANDS — MARITIME							
Port	**Location / berth**	**Vessel type**	**Status**	**Connections**	**Frequency / voltage / capacity**	**Comments**	**Source**
Rotterdam	Parkkade	Coasters	Opened May 2026; ship-side service pending final power test	4 seagoing + 1 inland pocket; max 4 ships	400 V; 50 Hz; CEE 125 A / 3PX5 (seagoing); Powerlock (inland); NPR-IEC/PAS 80005-3 (seagoing)	From Maastunnel spare capacity.	Rotterdam Parkkade · Parkkade specs
Rotterdam	APMT Maasvlakte II; ECT Delta; ECT Euromax	Deep-sea container	Contracted; construction targeted H2 2026, subject to FID and permits; service targeted H2 2028	35	>100 MVA planned total	Rotterdam Shore Power / ABB. FID and permits still required for start of works.	Rotterdam ABB NL · Rotterdam schedule
Rotterdam	Rotterdam World Gateway	Container	Under development (self-build)			First berths were targeted 2026; not confirmed in service.	Rotterdam RWG
IJmuiden	Kotterkade and Loggerkade (Haringhaven)	Pelagic trawlers	Operational	5 large trawlers	Kotterkade: 50/60 Hz; up to 250 kVA per point. Loggerkade: rating not published	Fishing-vessel OPS, not cruise/container HVSC.	Zeehaven report · Haskoning specs

NETHERLANDS — INLAND							
Port / waterway	**Location / berth**	**Vessel type**	**Status**	**Connections**	**Frequency / voltage / capacity**	**Comments**	**Source**
Amsterdam	PTA river-cruise berths	River cruise	Operational	Up to 8 vessels	2 Powerlocks per vessel	Connection mandatory at PTA river berths.	CPA shore power · CPA 2026
Amsterdam	Public inland berths in Amsterdam port	Inland barge	Operational	Public shore-power cabinets	32/63/125 A CEE; 400 A Powerlock	NBN-EN 15869-3:2019	Amsterdam inland

NETHERLANDS — INLAND							
Port / waterway	**Location / berth**	**Vessel type**	**Status**	**Connections**	**Frequency / voltage / capacity**	**Comments**	**Source**
Rotterdam	Public berths	Inland	Operational; expanding	~100 cabinets at ~70 public berths	EN 15869-3 (≤125 A); EN 16840 (250–400 A)	Generator ban where shore power is available.	Rotterdam OPS · Rotterdam rules
Terneuzen (North Sea Port)	Beurtvaartkade, Zijkanaal A, Kanaal Terneuzen, Axelse Vlakte Haven	Inland / river cruise	Operational	Named public sites	400 V	River-cruise supply at Beurtvaartkade.	North Sea Port
Sas van Gent	Zijkanaal H	Inland barge	Operational	2 cabinets × 4	400 V / 32–63 A		North Sea Port

Poland

POLAND — MARITIME							
Port	**Location / berth**	**Vessel type**	**Status**	**Connections**	**Frequency / voltage / capacity**	**Comments**	**Source**
Gdynia	Public Ferry Terminal, Polskie Quay	Ro-Pax	Operational	3 quay outlet positions; one mobile cable system	50/60 Hz; 11 kV; 3.5 MW	First Polish seagoing OPS.	Gdynia Forum
Świnoujście	Ferry Terminal, berths 1–5	Ro-Pax	Operational	11 quay outlets (2 at berths 1–4; 3 at berth 5)	50/60 Hz; 10.7 kV; ShoreBox 3 MVA; max 6 MW at 50 Hz / 3 MW at 60 Hz (system total)	Five berth substations; shared system capacity	Świnoujście technical
Gdańsk	Nabrzeże Obrońców Westerplatte	Ro-Pax / passenger	Design-and-build tender; bids closed 7 Sep 2026; award pending	Study: 2 vessels		Same OPS package as Baltic Hub.	Gdańsk project · Gdańsk study · Mimira tender

POLAND — MARITIME							
Port	**Location / berth**	**Vessel type**	**Status**	**Connections**	**Frequency / voltage / capacity**	**Comments**	**Source**
Gdańsk	Baltic Hub Container Terminal	Container	Design-and-build tender; bids closed 7 Sep 2026; award pending	Study: 1–5 vessels		Same tender DOD/DID/2026/015.	Gdańsk project · Gdańsk study · Mimira tender

Portugal

PORTUGAL — MARITIME							
Port	**Location / berth**	**Vessel type**	**Status**	**Connections**	**Frequency / voltage / capacity**	**Comments**	**Source**
Leixões	Cruise Terminal	Cruise	Contracted; system in development; service targeted 2029	1 mobile CMS	50/60 Hz; 6.6 / 11 kV; 8 MVA then 16 MVA	VINCI Energies (Omexom + Actemium).	APDL contract · Transportes & Negócios
Lisbon	Lisbon Cruise Terminal	Cruise	Funded; grid to 2027; ship supply 2029				Port of Lisbon announcement
Lisbon	Five eastern freight terminals	Cargo	Same programme; terminal-side OPS target 2029			Names not published. Phase 2 by concessionaires.	Port of Lisbon announcement · Presstur
Funchal	Port of Funchal (OPS berths not confirmed).	Cruise / ferry	Feasibility study completed; implementation funding sought.			CEF study done; implementation funding not secured (2026).	APRAM · Diário de Notícias
Aveiro		Commercial vessels	Contract awarded Mar 2026; 300-day delivery			SINEPOWER.	Port of Aveiro · Diário de Aveiro
Sines	Porto de Serviços	Port service craft	Contracted 2024			OPS for port-service vessels and electric-boat charging.	APS · Contract record

Romania

ROMANIA — MARITIME							
Port	**Location / berth**	**Vessel type**	**Status**	**Connections**	**Frequency / voltage / capacity**	**Comments**	**Source**
Constanța	10 berths (numbers not published)	Mixed (cruise, Ro-Ro, ferry, multipurpose, bulk, tanker)	Design-and-build signed Mar 2025; works from Mar 2026; ~27 months	10 planned berths; simultaneous capacity not stated	Design: 50/60 Hz; 400/440/690 V and 6.6/11 kV; installed power options 3 MW, 5 MW or 2 × 5 MW.	E-COLD / EALING (CEF); TIAB. Electrical ratings are design specifications, not commissioned capacity.	Port of Constanța · ZIUA · FocusPress

Slovenia

SLOVENIA — MARITIME							
Port	**Location / berth**	**Vessel type**	**Status**	**Connections**	**Frequency / voltage / capacity**	**Comments**	**Source**
Koper	Container and passenger berths (not numbered)	Container, passenger	Planned; conceptual design late 2025; construction tenders being prepared; AFIR deadline: 31 Dec 2029	Draft plan: 4 container + 2 passenger connections	20 MW container (total) + 22 MW passenger (total); Ship-side voltage and per-connection capacity not published. New 110/20 kV RTP Luka Koper	Grid agreement with ELES. Part of the 110 kV cable route already ducted	Luka Koper · ELES · Naš stik

Spain

SPAIN — MARITIME							
Port	**Location / berth**	**Vessel type**	**Status**	**Connections**	**Frequency / voltage / capacity**	**Comments**	**Source**
Barcelona	Hutchison Ports BEST	Container	Operational	3 boxes; up to 2 ships	6.6 kV; 8 MW		Barcelona BEST
Barcelona	Grimaldi, Moll de Sant Bertran	Ro-Pax	Operational (since 2025)	2 berths; 1 ship at a time	6.6/11 kV; 4 MVA initially, expandable to 6.5 MVA		Barcelona OPS · Grimaldi specs · Grimaldi voltage
Barcelona	Moll Adossat, Terminal H (MSC)	Cruise	Contracted; OPS works under way			Separate cruise OPS project; not yet operational.	Barcelona MSC
Barcelona	Moll Adossat, Terminal G	Cruise	Contract awarded Apr 2026; design-and-build			Separate PowerCon OPS contract. OPS commissioning date not confirmed	Barcelona G
Palma	Paraires / Poniente	Ro-Pax	Operational	2 types of connection; 1 ship at a time	MV 1.6 MW; LV 0.8 MW	Baleària use.	Balearic Palma
Palma	Muelles Comerciales	Ro-Pax	Contracted		MV; 1.6 MW		Balearic awards
Alcúdia	Ferry berths	Ro-Pax / fast ferry	LV operational (Jul 2026); MV commissioning not confirmed	LV connection; 1 MV planned	LV 0.8 MW; MV 1.6 MW planned	First confirmed LV connection: *SOM Menorca*.	Balearic Alcúdia · Alcúdia project
Eivissa	Botafoc	Ro-Pax	Contracted	2	2 × 1.6 MW		Balearic awards

SPAIN — MARITIME							
Port	**Location / berth**	**Vessel type**	**Status**	**Connections**	**Frequency / voltage / capacity**	**Comments**	**Source**
Maó	Cós Nou	Ro-Pax	Contracted	1	1.6 MW		Balearic awards
Cádiz	Muelle Alfonso XIII	Cruise	Operational (Mar 2026)	1 ship initially	16 MVA; expandable to 24 MVA		Endesa Cádiz
Valencia	Muelle Transversal de Costa (MSC)	Container	Installed (2026); commercial use not confirmed	2 outlets	50/60 Hz; 6.6 kV; 10 MW substation (2 × 5 MW or 1 × 7.5 MW)		Valencia installation · Valencia specs
Valencia	Muelle de Poniente; Muelle Transversales	Ro-Pax / cruise	Planned within OPS Valenciaport programme; to 2028				Valencia passengers · Valencia CEF
Valencia	APM Terminals Valencia, Muelle de Levante	Container	Planned; specific terminal OPS project	First OPS position planned	6.6 kV ship connection in project document	Project document identifies the berth; not in service.	Valencia APM
Algeciras	Muelle de la Galera, berths 7B and 8	Ro-Pax / fast ferry	Contracted; works in progress	2 berth positions		For Ceuta services.	Algeciras OPS
Algeciras	Muelle Príncipe Felipe / Isla Verde Interior	Ferry / mixed	OPS works in progress			Not the APMT/TTI container terminals.	Algeciras OPS
Tarifa	Ferry berths 2 and 3; berth 1	Ro-Pax / fast ferry; mixed	Contracted; works in progress	1 point each at berths 2–3; 2 at berth 1	Up to 320 kW each at 2–3; 2 × 80 kW at berth 1	Fishing outlets not included.	Algeciras OPS · Tarifa details
Pasaia	Kaputxinos	Ro-Ro	Installed (2026); ship connection not confirmed				Transporte XXI
Vigo	Bouzas	Ro-Ro	Installed; final works accepted Mar 2026; ship use not confirmed			Iberdrola concession.	Vigo decision

SPAIN — MARITIME							
Port	**Location / berth**	**Vessel type**	**Status**	**Connections**	**Frequency / voltage / capacity**	**Comments**	**Source**
Alicante	Quays 13, 15 and 17	Cargo / mixed	Operational	Up to 3 ships	MV / LV	Quay 14 cruise is **not** this installation.	Alicante OPS
Bilbao	A5 (OPS1 pilot)	Ro-Ro	Works completed May 2026; ship use not confirmed	2 points	2 × 2.5 MVA OPS units (design)		Bilbao A5 · Bilbao progress
Bilbao	OPS2: A1, A2, A6, AZ3; Getxo cruise	Container / Ro-Pax / Ro-Ro / cruise	Contracted; works in progress; target 2027	9 planned (OPS2); 11 across BilbOPS overall	30 MW total	Separate from A5 pilot.	Bilbao progress · BilbOPS
Santa Cruz de Tenerife	Pantalán de Anaga; Muelle de Ribera	Ro-Pax / fast ferry	Operational for overnight calls		Anaga design: 11 kV, up to 2 MW/ship; Ribera connection described as LV	The two specifications refer to different connections; not a common rating.	Tenerife Anaga · Tenerife Ribera
San Sebastián de La Gomera	Dique del Este	Ro-Pax / fast ferry	Operational		LV	—	La Gomera OPS · Canary project
Santa Cruz de La Palma	Dique del Este (operational); Pantalán (installed)	Ro-Pax	Operational at Dique del Este	2 installed points	LV	First documented ship connection was at Dique del Este, not the Pantalán.	La Palma OPS
Las Palmas	Muelle Grande	Mixed commercial vessels	Installation completed (2025); ship-use frequency not confirmed	8 outlets	Supplier reports 8 × 150 kW	Eight 150 kW outlets; simultaneous ship capacity not confirmed.	Sampol Las Palmas
Motril	Muelles de Levante and Costa	Ro-Pax	Operational; remodelling planned		800 kW upgrade target; current available capacity not confirmed		Motril OPS · Green Motril
Motril	Azucenas; Muelle Dique	Ferry / cargo; cruise	Planned, 2027–2030 investment programme			Extension beyond Levante/Costa; not operational.	Motril programme

SPAIN — MARITIME							
Port	**Location / berth**	**Vessel type**	**Status**	**Connections**	**Frequency / voltage / capacity**	**Comments**	**Source**
Tarragona	Moll de Balears	Cruise	OPS project under development; associated electrical works started in 2026	Up to 2 ships planned	10 MW first phase (2026 port statement); 50/60 Hz, 6.6 / 11 kV in project sheet	Distribution works started; other OPS works remain in tender.	Tarragona works · Tarragona capacity · Tarragona specs

Sweden

SWEDEN — MARITIME							
Port	**Location / berth**	**Vessel type**	**Status**	**Connections**	**Frequency / voltage / capacity**	**Comments**	**Source**
Gothenburg	Älvsborg Ro-Ro, quays 700 and 712	Ro-Ro	Operational	2 berths	Quay 700: 6.6 kV, 50 Hz; quay 712: 10.7 kV, 50 Hz, 1.5 MW design.	DFDS at quay 712.	Trafikverket · PoG 712
Gothenburg	Stena Germany terminal, spot 21	Ro-Pax	Operational	1	11 kV; 60 Hz; 3.15 MVA	—	Actemium · Trafikverket
Gothenburg	Stena Denmark terminal, spots 11–13	Ro-Pax	Operational		11 kV; 50 Hz; 3 MVA	Stena ferries connect at berth.	Actemium · PoG Stena · Trafikverket
Gothenburg	Energy Port, jetties 519, 520 and 521	Tanker	Operational	3 jetties	6.6 kV; 50 Hz; up to 2 MW per jetty	Connection compulsory for approved, equipped vessels.	PoG tankers · PoG tariff

SWEDEN — MARITIME							
Port	**Location / berth**	**Vessel type**	**Status**	**Connections**	**Frequency / voltage / capacity**	**Comments**	**Source**
Gothenburg	Skandiahamnen container and car/Ro-Ro terminals	Container / car carrier / Ro-Ro	Grid station under construction; berth OPS planned by 2030	Planned: 5 container + 2 car/Ro-Ro berths	Planned berth capacity: 4 MVA each; grid station input: 19 MVA		PoG station · PoG update
Stockholm	Stadsgården S167	Cruise	Operational	1	11 / 6.6 kV; 50/60 Hz	—	PoS OPS
Stockholm	Stadsgården S160	Cruise	Operational	1	11 / 6.6 kV; 50/60 Hz	S160 and S167 supplied two cruise ships simultaneously in May 2026.	PoS OPS · PoS news
Stockholm	Stadsgården 163	Ferry	Operational	1	400 V; 50 Hz	Viking Line; LV connection.	PoS OPS
Stockholm	Värtahamnen, quays 513 and 514	Ferry	Operational	2	11 kV; 50 Hz	Tallink Silja.	PoS OPS
Kapellskär	Quay 2	Ferry	Operational	1	11 kV; 50 Hz	Finnlines.	PoS OPS
Nynäshamn	Quays 1 and 2	Ferry	Operational	2	11 kV; 50 Hz at quay 1; 60 Hz at quay 2	Polferries / Destination Gotland.	PoS OPS
Stockholm Norvik	Quays 3 and 4 (container); quay 5 (ferry)	Container / ferry	Planned; container quays targeted for 2027; ferry-quay date not published	3 planned quay positions	11 kV; 50 Hz at 3–4; 50/60 Hz at 5	—	PoS OPS · PoS projects
Trelleborg	Ferry berth **9**	Ro-Pax	Operational	1 confirmed berth	11 kV; 50 Hz; berth-specific MVA not confirmed	Stena rail ferries.	Trelleborg · Actemium
Trelleborg	Ferry berths 10 and 11	Ro-Pax	Installed; successful ship tests in Mar 2026; regular use not confirmed	2 berths	11 kV	Tests confirmed for *Peter Pan* and *Nils Holgersson*; tests of two further TT-Line vessels were still to follow.	Trelleborg tests · Driftklart

SWEDEN — MARITIME							
Port	**Location / berth**	**Vessel type**	**Status**	**Connections**	**Frequency / voltage / capacity**	**Comments**	**Source**
Trelleborg	Ferry berth **8**	Ro-Pax	Contract awarded; completion targeted Q2 2027	1 planned		Actemium; additional Stena berth.	Trelleborg
Ystad	Ferry berths (Polferries / Unity Line)	Ro-Pax	Operational	4	11 kV; 50/60 Hz; 6.25 MVA	—	Actemium
Visby	Visby ferry terminal (three berths)	Ro-Pax	Operational	4 outlets across 3 listed berths	11 kV; 50/60 Hz; 5.0 MVA	Destination Gotland.	Actemium · Destination Gotland
Karlskrona	Verkö, Stena terminal	Ro-Pax	Operational	1	11 kV; 50 Hz; 2.5 MVA	—	Actemium
Helsingborg	City Port ferry berths	Battery ferry	Operational		Automated shore charging; berth-side rating not published	Ferry battery charging, not conventional HVSC.	Helsingborg · Prevas
Helsingborg	Västhamnen Container Terminal	Container	Planned installation; commissioning targeted autumn 2026, not confirmed	1 planned	Up to 3.5 MW	—	Helsingborg
Gävle	Energy pier, quay 27	Tanker	Operational	1	6.6 kV; 50 Hz; 2,000 kVA; IEC/IEEE 80005-1		Gävle OPS · Gävle tech 27
Gävle	Sligkajen, quay 16	Bulk / general cargo	Operational	2 connection cables	2 × 125 A; ship-side voltage not stated in technical sheet	—	Gävle OPS · Gävle tech 16
Gävle	Container Terminal	Container	Funded project; target end 2028				Gävle project

SWEDEN — MARITIME							
Port	**Location / berth**	**Vessel type**	**Status**	**Connections**	**Frequency / voltage / capacity**	**Comments**	**Source**
Umeå	Ferry berth, *Aurora Botnia*	Ro-Pax / hybrid ferry	Operational	2 shore connections reported by supplier	Shore transformers: 12 kV / 0.69 kV, 2 × 2,500 kVA; ship-delivery rating not confirmed	Shore supply and hybrid-ferry charging.	Vinnergi

Non-EU European Countries

Norway

NORWAY — MARITIME							
Port	**Location / berth**	**Vessel type**	**Status**	**Connections**	**Frequency / voltage / capacity**	**Comments**	**Source**
Oslo	Hjortnes	Ro-Pax (Color Line)	Operational	1	3 MW	Color Fantasy / Color Magic.	Oslo Havn · Oslo capacity
Oslo	Vippetangen (Utstikker 2) and Revierkaia	Ro-Pax (Go Nordic)	Operational	2	11 kV; 50 Hz; 7.5 MW total	Separate ferry system from Revierkaia cruise OPS.	Oslo Havn
Oslo	Revierkaia	Cruise	Operational	1	50/60 Hz; 6.6/11 kV; 10 MVA currently available; 16 MVA design		Oslo Havn
Oslo	Filipstadkaia	Cruise	Under construction; commissioning not confirmed	1	50/60 Hz; 6.6/11 kV; up to 16 MW	The port's stated opening target was summer 2026.	Oslo works · Oslo capacity · NVE
Oslo	Søndre Sjursøykai (Yilport)	Container	Operational	3 outlets	50/60 Hz; 1,600 kVA system maximum		Oslo Havn
Oslo	Nordre Sjursøykai	Cement / dry bulk	Operational	2 outlets	400-690 V; 50/60 Hz; 1.8 MW total		Oslo Havn
Bergen	Skolten, Bontelabo, Jekteviken	Cruise	Operational	5 HV supply pits; max 3 ships simultaneously	50/60 Hz; 6.6/11 kV; 48 MVA total	Shore-power capability is a cruise berth-booking requirement from 2026.	Plug Bergen · Bergen Havn · Cruise Europe

NORWAY — MARITIME							
Port	**Location / berth**	**Vessel type**	**Status**	**Connections**	**Frequency / voltage / capacity**	**Comments**	**Source**
Ålesund	Prestebrygga and Stornespiren	Cruise	Operational	3 pits; max 2 large ships simultaneously	50/60 Hz; 6.6 kV / 9.8 MVA or 11 kV / 16 MVA per pit; 32 MVA total		Ålesund Havn
Haugesund	Garpeskjærskaien cruise terminal	Cruise	Operational	1 cruise berth	50/60 Hz; 6.6/11 kV; up to 16 MVA (contracted design)		Havnekraft · PSW contract
Kristiansand	Kai 10	Cruise	Operational	1	50/60 Hz; 11 kV; up to 15 MW (reported); 16 MVA plant rating		Cruise Baltic · Kristiansand plan
Kristiansand	Color Line ferry terminal	Ro-Pax (SuperSpeed 1)	Operational	1	11 kV shore supply		Kristiansand Havn · Sjöfartstidningen
Kristiansand	Container terminal, Lagmannsholmen	Container	Installed; ship connections not confirmed		6.6 kV; up to 4 MVA at the existing terminal (design); 7.5 MVA equipment rating for future relocation		Kristiansand plan · Kristiansand report
Larvik	Color Line ferry berth	Ro-Pax (SuperSpeed 2)	Operational	1	11 kV; 2.5 MVA		Mer et Marine
Sandefjord	Framnes / Color Line berth	Ro-Pax (Color Hybrid)	Operational	1	HV; up to 7 MW shore charging	Shore supply also charges the ferry's battery.	Cody · Riviera
Trondheim	Pir I / Pir II	Coastal passenger ships	Operational	Several LV outlets	Pir I: 50 Hz; 660/690 V; 2,500 kVA. Pir II: 50/60 Hz; 400/440/690 V		Trondheim Havn

NORWAY — MARITIME							
Port	**Location / berth**	**Vessel type**	**Status**	**Connections**	**Frequency / voltage / capacity**	**Comments**	**Source**
Orkanger	Kai 2 (Krankaia) and Kai 4 (Stenakaia)	Container / Ro-Ro / general cargo	Operational	Kai 2: 3 HV outlets; Kai 4: 1 HV outlet	50/60 Hz; 6.6/11 kV; up to 4 MW at each quay		Trondheim Havn
Trondheim	Brattøra cruise quay (Kai 68)	Cruise	Planned; target 2028	1 planned		Grid capacity and funding remain outstanding.	Trondheim cruise · Trondheim update
Flåm	Cruise pier	Cruise	Under development; target summer 2027	3 connection positions; 1 ship at a time	10 MW initially; 16 MW planned by 2029	.	Cruise Europe
Narvik	New cruise quay	Cruise	Planned; target Q1 2027	1 ship planned	HV and LV planned; 12 MVA; 6.6/11 kV; 50/60 Hz (design)		Plug Narvik · Seatrade Cruise
Molde	Storkaia	Cruise	Planned; port states availability from 2027		12 MW planned; upgradeable to 16 MW		Molde Havn · Molde project
Eidfjord	Cruise pier	Cruise	Equipment contracted; target April 2027		12 MVA		Cruise & Ferry
Tromsø	Kai 8, Prostneset	Cruise / other large vessels	Turnkey OPS contract signed June 2026		5 MVA; 11/6.6 kV; additional LV outlets		PSW
Stavanger	Sandvigå supply site → Konserthuskaien / Strandkaien	Cruise	Planned; permit stage, not under construction			2027 is the port's planning target.	NRK · Stavanger Havn

Switzerland

SWITZERLAND — INLAND							
Port	**Location / berth**	**Vessel type**	**Status**	**Connections**	**Frequency / voltage / capacity**	**Comments**	**Source**
Basel (St. Johann)	Steiger 1 and 2	River cruise	Operational (upgraded Mar. 2025)	8 × Powerlock 400 A	400 A Powerlock	2–3 ships abreast per landing.	Basel-Stadt
Basel	Dreirosen	Inland cargo / tankers	Operational	1 cabinet: 16 / 32 / 63 A	16/32/63 A sockets; voltage/frequency not published	Overnight waiting	Basel-Stadt
Basel	Klybeckquai	River cruise	Operational (Apr. 2025)	4 × Powerlock 400 A	400 A Powerlock	Two ships at once	Basel-Stadt
Basel Kleinhüningen	Ostquai (Hafenbecken 1)	Inland cargo	Operational (Jun. 2025)	2 cabinets: 16 / 32 / 63 A each	CEE 16–63 A	Waiting berth, not under cranes	Basel-Stadt
Basel	Dreiländereck	River cruise	Operational	3 × Powerlock 400 A	400 A Powerlock	Supply renewal planned	Basel-Stadt

United Kingdom

UNITED KINGDOM — MARITIME							
Port	**Location / berth**	**Vessel type**	**Status**	**Connections**	**Frequency / voltage / capacity**	**Comments**	**Source**
Portsmouth International Port	Berth 2 (Ayrton); ferry berths 3 and 4	Ro-Pax / cruise	Operational (Jul 2026)	3 berths; up to 3 ships simultaneously	Berth 2: 6.6/11 kV, 50/60 Hz, up to 12 MW (design); berths 3–4: 11 kV, up to 6 MW each (design)	Sea Change; used by Brittany Ferries.	Portsmouth Port · City Council · Cruise Europe
Southampton	Horizon Cruise Terminal (berth 102); Mayflower Cruise Terminal (berth 106)	Cruise	Operational	2 berths; 1 ship at a time		Simultaneous use limited by available grid power.	ABP · ABP berths · BBC
Aberdeen	North Harbour: Albert Quay berths 1–5; Mearns Quay berths 1–3	Offshore / workboats	Operational	8 berths served; 5 plug locations	230–690 V; 50/60 Hz; up to 350 A per connection point	Shore Power in Operation project.	Aberdeen quays · Aberdeen project
Aberdeen	Regent Quay, berths 3 and 4	Offshore wind service vessel	Shore power available; target e-SOV not yet in service	1 plug serving 2 berths	230–690 V; 50/60 Hz; 500 kVA available	Shore facility for Bibby Marine's e-SOV.	Aberdeen quays · Aberdeen projects · Bibby Marine
Aberdeen	Jamieson's Quay	Passenger ferry (NorthLink)	Operational (early 2026)	1	1.7 MVA	NorthLink Aberdeen–Lerwick service.	CMAL · CMAL specification
Stromness (Orkney)	NorthLink berth	Passenger ferry (*Hamnavoe*)	Operational	1	LV; IEC 80005-3	Overnight connection.	NorthLink · SeaKing

UNITED KINGDOM — MARITIME							
Port	**Location / berth**	**Vessel type**	**Status**	**Connections**	**Frequency / voltage / capacity**	**Comments**	**Source**
Lerwick	Holmsgarth, berth 3	Passenger ferry (NorthLink)	Completion expected ~14 months after contract award	1 planned		Civil works under way; electrical installation to follow.	Lerwick Port
Lerwick	Mair's Pier	Fishing / pelagic	Operational	Multiple; exact number not confirmed		High-capacity shore supply for fishing vessels.	Lerwick Port · Lerwick fishing
Heysham	Ferry berths	Ro-Pax / Ro-Ro	Planned; first connection not confirmed	Up to 4 planned		NatPower Marine–Peel Ports programme.	NatPower Marine

Iceland

ICELAND — MARITIME							
Port	**Location / berth**	**Vessel type**	**Status**	**Connections**	**Frequency / voltage / capacity**	**Comments**	**Source**
Reykjavík (Old Harbour)	Faxagarður	Expedition / small cruise	Operational	2 points (FA1, FV1); up to 2 ships	LVSC; IEC/PAS 80005-3; 380/400 V at 50 Hz, 440 V at 60 Hz, 690 V at 50/60 Hz. FA1: 1 MVA at 380–440 V or 1.5 MVA at 690 V. FV1: 0.8 MVA at 400/440 V or 1 MVA at 690 V	First cruise connection: *Maud*.	FFH technical · FFH LVSC · FFH Maud
Reykjavík (Old Harbour)	Miðbakki	Expedition / small cruise	Operational	1 point (MA1)	LVSC; IEC/PAS 80005-3; 380/400 V at 50 Hz, 440 V at 60 Hz, 690 V at 50/60 Hz; 1 MVA at 380–440 V or 1.5 MVA at 690 V		FFH technical
Reykjavík (Sundahöfn)	Sundabakki, Eimskip terminal	Container (*Dettifoss*, *Brúarfoss*)	Operational			Dedicated Eimskip shore supply.	FFH shore power · FFH Maud
Reykjavík (Sundahöfn)	VÖR terminal and Skarfabakki	Cruise	Planned; OPS tender published 2026; first connections targeted summer 2028	2 zones × 3 connection points; 1 ship per zone	33 kV grid input; 6.6/11 kV output; 50/60 Hz; 2 × 12 MVA	The VÖR passenger terminal is open; its OPS is not yet in service.	TED · FFH annual report
Hafnarfjörður	Hvaleyri Quay and South Quay	Fishing / expedition cruise	Operational	2	LVSC; IEC 80005-3; ship supply at 400/440/690 V, 50/60 Hz; port-stated up to 1.2 MW. South Quay: 11 kV upstream feed; 1,500 kVA LV output at 400/690 V, 50 Hz	11 kV is the upstream supply, not the ship-side voltage.	Hafnarfjörður Port
Seyðisfjörður	Strandarbakki ferry berth	Ro-Pax (*Norröna*)	Operational; first ship connection Sep 2026	1 ferry berth			Smyril Line · Múlaþing Port

Serbia

SERBIA — INLAND							
Port	**Location / berth**	**Vessel type**	**Status**	**Connections**	**Frequency / voltage / capacity**	**Comments**	**Source**
Belgrade	Sava left bank, Ušće Park–Branko's Bridge; four planned floating pontoons	River cruise	Contracted; new pier targeted for 2027; OPS commissioning not confirmed	4 terminals; each designed for 2 ships	Three-phase; 400 A/phase per ship, or 800 A/phase for one ship using two cable sets. Voltage and frequency not published.	Two substations planned.	AUL · eKapija contract · eKapija specs · Euronews

Russia (European)

RUSSIA — MARITIME							
Port	**Location / berth**	**Vessel type**	**Status**	**Connections**	**Frequency / voltage / capacity**	**Comments**	**Source**
Murmansk	Marine Rescue Service facility	Marine Rescue Service vessels	Installed; current operation not confirmed	3 vessels	800 kVA installed capacity; ship-side voltage and frequency not confirmed for this installation	Dedicated service-vessel supply, not a commercial terminal.	IC ART system

Turkey (European)

TURKEY — MARITIME							
Port	**Location / berth**	**Vessel type**	**Status**	**Connections**	**Frequency / voltage / capacity**	**Comments**	**Source**
Tekirdağ	Asyaport container quay	Container	Operational	5 plug stations	60 Hz; 6.6 kV; 8 MVA total	Designed for 2 mainline and 3 feeder vessels. Operator reported higher simultaneous-vessel capacity in 2026 without clarifying the number of OPS plugs.	Asyaport OPS · WPSP · AA 2026

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