Base Load Power Hub (BLPH)

PROJECT VENDORS AND SUBCONTRACTORS LIST

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Rev.	Date	Description	Prepared	Reviewed	Approved

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1 INTRODUCTION

1.1 THE HOLLANDSE KUST NOORD WIND PARK

Crosswind, a Shell and Eneco joint venture, was awarded the tender to develop the offshore Hollandse Kust Noord (HKN) wind farm, located 18.5km off the coast of Netherlands near the town of Egmond aan Zee. The consortium plans to have HKN operational in 2023 with an installed capacity of 759MW generating at least 3.3TWh per year. This is sufficient renewable power to supply more than 1 million Dutch households with green electricity.

Offshore wind farms produce intermittent electricity and balancing these dips and peaks and integrating this electricity into the national energy system requires new technologies. For this reason, the offshore wind farm will include several new technologies that could be implemented at full-scale in the future. The new technologies being explored include a floating solar park, a short-duration battery storage as well as long-term storage via green hydrogen produced by water electrolysis and subsequently consumed in a fuel cell. The combination of these individual measures, herein referred to as the Base Load Power Hub (BLPH) will ensure a continuous power supply regardless of the wind situation.

1.1.1 Project Location

The Hollandse Kust Noord (HKN) wind farm is located 18.5km off the coast of the Netherlands near the town of Egmond aan Zee.

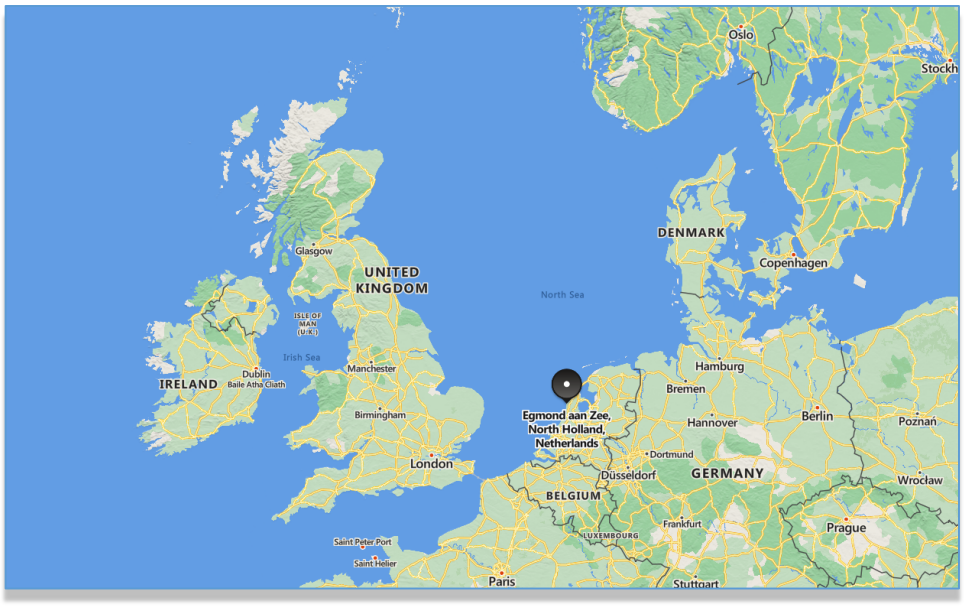


Figure 1 HOLLANDSE KUST NOORD WIND PARK Location Map

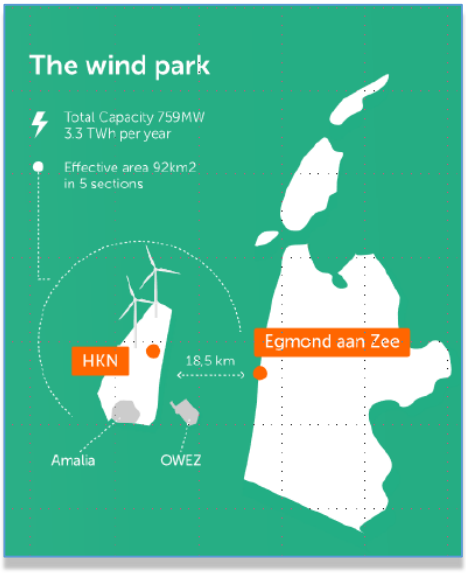


Figure 2 - Wind Park Details

The wind farm will consist of No. 69 x 11.5MW wind turbine generators each to be installed on a dedicated monopile structure. A 70th monopile located on coordinates E 590719.1, N 5841602.3 is reserved for installing the platform accommodating the BLPH. The monopile structure was designed and installed by Van Oord Offshore Wind (VooW) and therefore not part of the BLPH scope.

1.1.2 Project Concept

All components included in the BLPH will be integrated onshore on a topsides and installed in an offshore location within the boundaries of the HKN wind farm. At its simplest, the BLPH will store energy during periods of high electricity generation from renewable sources (a wind turbine generator and the floating solar PV farm) and release it during periods of low generation. In practice. It is expected that the energy stored will supplement generation from renewable sources to ensure that at least 1.0MW of power is exported to the electrical grid regardless of wind/solar availability.

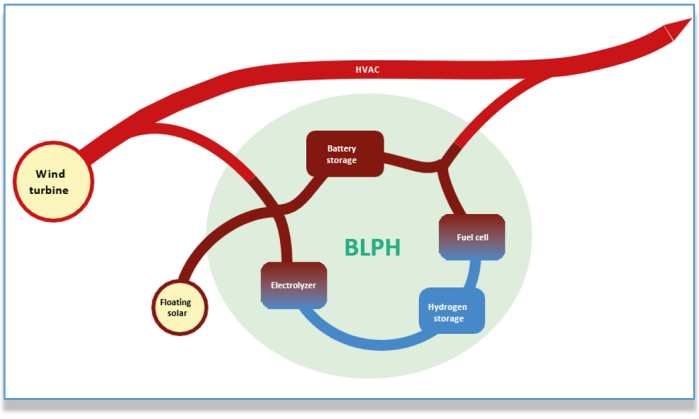


Figure 3 – BLPH Concept

Electricity in the BLPH will be stored in the form of electrons in a battery energy storage system (BESS) as well as converted into green hydrogen via water electrolysis. When the power output from the connecting wind turbine drops to below 1 MWe, the BLPH will return its stored energy to supplement the remaining power output. This will be by discharging the BESS, while stored hydrogen will be converted back into electricity using a fuel cell to extend the discharge duration.

The purpose of the BLPH is to function as a testbed for the integration of energy storage technologies with renewable generation. It is expected that equipment installed on the BLPH will operate as Normally Unmanned Installation for at least two (2) years with no or minimal maintenance and it will have its own independent control room with the ability to communicate with Crosswind's control room.

Revision 1 :

As per COMPANY's comments received through Comment response sheet issued while reviewing the revision 0 of present document, CONTRACTOR revised the document to :

a) Include amendments on some Subsuppliers' categories, in track change;

b) Highlight, in yellow colour, the names of Subsuppliers / Subcontractors currently qualified in CONTRACTOR's QA/QC system. As per clarifications given in the correspondence exchanged between the Parties on 07th and 08th August 2023. CONTRACTOR shall proceed with the qualification process of any of the short-listed Subsupplier / Subcontractor, still to be qualified, during the tender phase of relevant category of goods and services, in accordance with the aoplicable CONTRACTOR's procedure PRO.PRO.01 'Suppliers / Contractors qualification'.

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2 SUBSUPPLIERS

2.1 INSTRUMENTATION MATERIALS

This section details the main categories of itemized materials and relevant list of Vendors. Other categories of minor components and bulk item are not listed in this document and CONTRACTOR will be free to select the most suitable Vendors inside its own Corporate Vendors List.

2.1.1 Actuated ball valves ON-OFF type

DAFRAM	Urbisaglia – I
DELLA FOGLIA	Milano – I
EMERSON	Worldwide
ERREESSE	Grignasco-NO-I
FLOWSERVE	Worldwide
FLUITEK ORSENIGO VALVES	Costa di Mezzate-BG-I
F.R.I.	Salt-UD-I
IMI TRUFLO ITALY	Milano – I
LVF SPA	S.Paolo – BG-I
MAVERICK VALVE BV	NL
OLIVER VALVES	UK
OMB VALVES	Cenate Sotto-BG-I
OMS SALERI	Odolo- BS – I
PERAR SPA	Rescaldina-MI – I
PETROLVALVES SRL	Castellanza-VA – I
PIBIVIESSE	Nerviano-MI– I
RMT VALVOMECCANICA	Solbiate Olona-VA-I
SCHLUMBERGER	Worldwide
STARLINE	Costa di Mezzate-BG-i
TECHNOFLOW	Cesate – MI-I
VALVITALIA SPA	Rivanazzano PV – I

2.1.2 Actuators

Selected by Valves' manufacturer on the basis of its own vendors list

2.1.3 Actuated gate / needle valves ON-OFF type

ATV (ADVANCED TECHNOLOGY VALVE SPA	Colico – I
BFE SPA BFE SPA BONNEY FORGE	Milano – I
DOUGLAS CHERO	Piacenza – I
EMERSON	Worldwide
FLUITEK ORSENIGO VALVES	Costa di Mezzate-BG-I
F.R.I.	Salt-UD-I
GUSBERTI MARCELLO SNC	Monza-MI – I

LVF SPA	S.Paolo – BG-I
MTM VALVES	Mappano-TO-I
OMB VALVES	Cenate Sotto-BG-I
ORION VALVES	Trieste-I
PETROLVALVES SRL	Castellanza – VA – I
QUAM SRL	Fiorenzuola d'Arda-PC – I
VALVITALIA SPA	Rivazzano PV – I
VALVOSIDER SRL	Borgosesia-VC-I

2.1.4 Pressure Safety valves (Relief Valves)

AST SPA	Milano – I
BAKER HUGHES	Worldwide
BROADY FLOW CONTROL LIMITED	UK
EMERSON	Worldwide
KOSO PARCOL	Canegrate-MI-I
LESER	Germany
MOKVELD VALVES BV	AJ GOUDA - NL
(now EMERSON)TAI MILANO SPA	Milano – I
TECHNICAL SRL	Vignate-MI – I

2.1.5 Control valves

AST SPA	Milano – I
BAKER HUGHES (Masoneilan)	Worldwide
EMERSON	Milano – I
MOKVELD	NL
(now BAKER HUGHES)PARCOL S.P.A.	Varese – I
RMT VALVOMECCANICA	Solbiate Olona-VA-I
SAMSON	Germany
SEVERN GLOCON	UK-India
VALMET (NELES)	Finland
VALVITALIA	Italy

2.1.6 Self regulated control valves and pressure reducers

BAKER HUGHES (Masoneilan)	Worldwide
CARRARO VALVOLE	Segrate-Mi-I
EMERSON	Worldwide
SAMSON	Germany
TORMENE INDUSTRIALE	Worldwide

2.1.7 Solenoid / Pneumatic / hydraulic valves

Selected by Valves'/Actuators' manufacturer on the basis of its own vendors list

2.1.8 Flow Measurement Instruments

ABB	Worldwide
EMERSON	Worldwide
ENDRESS+HAUSER	Worldwide

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KROHNE	Worldwide
SCHNEIDER ELECTRIC	Worldwide
SICK	Worldwide
SIEMENS	Worldwide
SIMER	Italy
WIKA	Worldwide

2.1.9 Pressure / Temperature Instruments

ABB	Worldwide
EMERSON	Worldwide
ENDRESS+HAUSER	Worldwide
KROHNE	Worldwide
NUOVA FIMA	Italy
SCHNEIDER ELECTRIC	Worldwide
SICK	Worldwide
SIEMENS	Worldwide
SIMER	Italy
TE.MA.	Italy
TERRANOVA	Italy
WIKA	Worldwide

2.1.10 Level measurement instruments

ABB	Worldwide
AMETEK (MAGNETROL)	Worldwide
EMERSON	Worldwide
ENDRESS+HAUSER	Worldwide
KROHNE	Worldwide
OFFICINE OROBICHE	Italy
SCHNEIDER ELECTRIC	Worldwide
SICK	Worldwide
SIEMENS	Worldwide
SIMER	Italy
VEGA	Germany

2.1.11 Manifolds, Compression fittings, Valves)

AF SYSTEM (HOKE, OLIVER VALVES)	Italy
GIGATEC (FITOK)	Italy
I.T.E.	Italy
NORDIVAL (SWAGELOK)	Italy
R.T.I. (PARKER)	Italy
SAMI (WIKA)	Italy
SIMER	Italy
VIMEC	Italy

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2.2 ELECTRICAL MATERIALS

This section details the main categories of itemized materials and relevant list of Vendors. Other categories of minor components and bulk item are not listed in this document and CONTRACTOR will be free to select the most suitable Vendors inside its own Corporate Vendors List.

2.2.1 Cable trays and ladders - busbar

DKC EUROPE	Milano-I
DONG SUNG JIN HEUNG	S.Korea
EAE ELEKTRIK	Turkey - I
EFB-Elektronik GmbH	D
ERCON COMPOSITES (GRP)	India
FEMI CZ SPA (EBO NIEDAX)	Rovigo – I
FOR.EL.IND Spa	Bergamo - I
GERSAN ELEKTRIK	Turkey
NIEDAX (TOLARTOIS-TOLMEGA-EBO-CES)	Cavenago – MB - I
OBO BETTERMAN	Cascine Vica – Rivoli – TO – I
OGLAEND SYSTEM	Norway UK
SITIE IMPIANTI INDUSTRIALI SPA	Ferrara – I
SPINA GROUP	Milano – I

2.2.2 Electrical, instrument, marine optical cables

AGENCAVI	Milano – I
ALCATEL (RAPPR. PD)	FR
ANIXTER	Milano – I
BATT CABLE PLC	Milano – I - NL
CABLESERVICE SRL	Milano – I
CAMUNA CAVI SRL– LAPP GROUP	Edolo – Brescia – I
DRAKA KABLE	UK
EFB-Elektronik GmbH	D
EUROCAVI (SPINA Group)	Milano – I
EUROCOM CAVI SPA	Baranzate – MI – I
FLEI	Agrate Brianza - I
FOR.EL.IND.	Cologno al Serio-Bg-I
GAON CABLE CO LTD	S.Korea
GRUPO GENERAL CABLE SISTEMAS, S.L.U.	Spain
INTERKAB	Aberdeen UK
KEC INTERNATIONAL	India
LEONI	Germany
LS CABLE & SYSTEMS	Korea
METALLURGICA BRESCIANA	BS – I
MONCAVI SRL	Minerbio – BO – I
NEXANS	Worldwide
NOVACAVI SPA	Peschiera Borromeo – MI – I
POLYCAB	India

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PRYSMIAN GROUP	Worldwide
SEMCO MARITIME A/S	DK
SEVI KABEL SRL	Castiglione T.se To – I
SHAWFLEX LTD	Canada
TECNIKABEL Spa	Torini – I – UAE
TELECO CAVI	Lugo – Ra – I
TELETECNA ITALIA SRL	Roma – I
THERMOSTICH ELETTROTECNICA SRL	Paterno Dugnano MI – I
TKF	The Netherlands
TMC CABLE	Korea
TRATOS CAVI	Arezzo – I
TRIVENETA CAVI	Brendola – VI – I

2.2.3 Explosion proof, Eex-d material, Cable glands, Junction Boxes

BARTEC F.N.	Italy
C.E.A. (CEAG)	Italy
CORTEM GROUP	Italy
EATON	Worldwide
HAWKE INTERNATIONAL	Worldwide

2.2.4 Electrical Heat Tracing

BARTEC	Worldwide
CHROMALOX	Worldwide
KLOPPER THERM	Worldwide
NVENT THERMAL	Worldwide
THERMON	Worldwide

2.3 EQUIPMENTS AND PACKAGES

This section details the main categories of machineries and packages and relevant list of Vendors. Whenever other categories of equipments would be necessary for the project, which are not listed in this document, CONTRACTOR will be free to select the most suitable Vendors inside its own Corporate Vendors List.

2.3.1 Pumps (Positive displacement, Progressive cavity type)

ALLWEILER	Germany
LEISTRITZ	Germany
PCM	France
PLEUGER	Germany
SEEPEX	Germany
VERDER	The Netherlands

2.3.2 Pumps (gear type)

3P PRINZ	Italy
ASCO POMPE SRL	Milano – I
AXFLOW SPA (BRAN & LUEBBE)	Buccinasco – I
MAAG	ITALY
POMPE CUCCHI	ITALY

2.3.3 Loading arms – Cranes – Manual hoist – bridge crane

ACTA A/S	DK
ANSELL JONES	GB
APPLETON MARINE	USA
ALIOTO GROUP	Castelnuovo MC – I
CONCRANE	Trieste – I
DECALIFT	Genova – I
DREGGER CRANE A/S	NORVEGIA
FAS SPA FUNI ATTREZZATURE	Cinisello Balsamo – MI – I
FAVELLE FAVCO CRANE) Sdn BhdHEILA CRANE	Malaysia
FLEXA SRL	Milano – I
HEILA CRANE	Reggio Emilia - I
HENAN WEIHUA HEAVY MACHINERY CO.,LTD (Bridge crane)	China
HOIST	USA
ITALGRU	Ambivere – (BG) – I
J. BARNSLEY	GB
KENZ FIGEE GROUP	NL-UK
LIEBHERR-VERK NENZING GMBH	A
M.E.P. PELLEGRINI MARINE EQUIPMENT	Verona – I
MARITIME PUSNES	NO
NATIONAL OILWELL (HYDRALIFT)	USA
NMF OFF-SHORE CRANE	NO
PALFINGER	A
SEATREX LTD	UK
SH GROUP AS	Danmark

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SILEA LIQUID TRANSFER SRL	Bologna – I
SORMEC	Alcamo – I

2.3.4 Fire & Gas system, Smoke / Gas Detectors / Meteo stations

CHUBB	UK
CROWCON DETECTION INSTRUMENTS LTD	NL
CONSILIUM ITALY SRL	Firenze – I
DRAEGER SAFETY ITALIA S.P.A.	Milano – I
DET TRONICS LTD	UK
WORLD FIRE SYSTEMS By Emanuele Eusebi Srl	Ancona – I
FORES ENGINEERING	Forlì – I
KIDDE (CARRIER)	Worldwide
SANCO	Galliate-NO-I
SIEMENS SPA	Cassina de Pecchi – I
SOCRATE (GENERAL MONITORS MSA)	Milano – I
THERMOSTICH ELETTROTECNICA SRL	Paterno Dugnano MI – I
TRIMTEC SISTEMI	Settimo M.se – MI –I
TYCO FIRE & SECURITY	Worldwide
ZELLWEGER	Milano – I
VALVITALIA (EUSEBI / SILVANI)	Italy

2.3.5 Automation system

ABB	Worldwide
BAKER HUGHES	Worldwide
EMERSON	Worldwide
FORES ENGINEERING	Forlì – I
PROEON SYSTEMS	UK
SCHNEIDER ELECTRIC	Worldwide
SENSIA/ROCKWELL AUTOMATION	Worldwide
SDI AUTOMATION	Trezzano sul Naviglio – MI – I
SIEMENS SPA	Cassina de Pecchi – I
YOKOGAWA	Worldwide

2.3.6 Electrical motors

ABB	Worldwide
BROOK CROMPTON	UK
CEMP INTERNATIONAL SPA	Senago – I
DAC ELECTRIC	The Netherlands
FIMET MOTORI / RIDUTTORI	Torino – I
MARELLI MOTORI	Bologna – MI
NIDEC ASI	Worldwide
SIEMENS	Worldwide
WEG (c/o Schaivelli)	Brasil

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2.3.7 HV – MV - LV Switchboards, Electrical Panels

ABB S.p.A. –	worldwide
ALFAQUADRI SPA	Milano – I
BOFFETTI SPA	Bergamo
C.E.A.SRL	Novate MI – I
CASAGRANDE ELETTROCOSTRUZIONI SPA	Castel D'Azzano – VR – I
ELETECNO IMPIANTI INTEGRATI SRL	Milano – I
FORES ENGINEERING SRL	Forlì – I
GE POWER CONTROLS ITALIA (BAKER HUGHES)	AGRATE BRIANZA-MB
HITACHI	Worldwide
HYOSUNG	S.Korea / China
HYUNDAI	S.Korea
ICET INDUSTRIE SPA	Barberino Val d'Elsa – FI – I
IMEQUADRI DUESTELLE	Urgnano – BG – I
IMESA SPA	Jesi – I
SCHNEIDER ELECTRIC SPA	Stezzano – BG – I
SIEMENS SPA	Cassina de Pecchi – I

2.3.8 Radio-Telecom System, Integrated Control / DCS/ PAGA / ICSS

ABB S.P.A.	Milano – I
ALCATEL (RAPPR. PD)	F
COMITEL	Frosinone – I
EMERSON PROCESS MANAGEMENT SRL	Milano – I
FITRE SPA	Milano – I
FORES ENGINEERING	Forlì – I
GAI-TRONICS SRL (HUBBELL)	Corsico- MI- I
HONEYWELL SRL	Cernusco – Milano – I
MOTOROLA (RADIO TEAM – RA)	Ravenna – I
MSA ITALIANA SPA	Rozzano MI – I
PONTI-RADIO P.R. SRL	Milano – I
SENSIA/ROCKWELL AUTOMATION	Worldwide
SELTA SPA	Roma - I
SIAE MICROELETTRONICA SPA	Milano – I
SIEMENS SPA	Cassina de Pecchi – I
TELEINDUSTRIA SRL	Assago MI – I
VALTELLINA SPA	Bergamo – I

2.3.9 Navigation Aids - Fog Horn

AUTOMATIC POWER	USA
CALZAVARA SPA	Udine – I
COMPAGNIA GENERALE TELEMAR SPA	Roma – I
FEDERAL SIGNAL	USA
FLOATEX KSC BV	NL
ORGA BV	NL
PHAROS MARINE LTD	UK
SICE SRL	Pesaro – I

TIDELAND (ORGA GROUP)	UK

2.3.10 AC/DC Ups System & Batteries / accumulators

ABB S.P.A.	Milano – I
AEG POWER SOLUTIONS (3W POWER)	Worldwide
BORRI – EATON POWER QUALITY	Bibbiena – I
CEG ELETTRONICA INDUSTRIALE SPA	Arezzo – I
CHLORIDE SAS	Worldwide
CONVEL SRL	Biassono – MI – I
ENERSYS SRL	Montecchio – (VI) – I
FIAMM SPA	Rozzano – I
GUTOR ELECTRONIC LTD - (SCHNEIDER Group)	CH
HOPPECKE ITALIA SRL	Milano – I
LEVER SRL	Arbizzano – I
SAFT SPA	Genova – I
SCHNEIDER ELECTRIC SPA	Stezzano – BG – I
SEMIDAN POWER APS	DK
SIEL SPA	Trezzano Rosa MI - I
SIEMENS SPA	Cassina De Pecchi I
ZUTRONIC	Bergamo (I)

2.3.11 Equipped Shelters – modular building

ALEX SISTEMI SPA	Ossona – MI – I
ALGECO	Marcignago – PV – I
AZ TECHNOLOGY SRL	Rovigo – I
D-ENERGY	Cesano Boscone-Mi-I
ELA Container Offshore	Germany
EDILSIDER SPA	Calolziocorte – LC – I
FORES ENGINEERING	Forlì – I
LS ELECTRIC	S.Korea
MECOSER Spa	Castelnuovo – NA-I
NEW HOUSE	Medesano - PR - I
PRE CAMP SRL	Noceto – PR – I
PREFAB SRL	San Polo di Piave - I
SITAL	Piacenza - I
STEEL LINE SRL	Ancona
IN.CO.S	Milano – I
PIEMME	Udine - I
VONK	NL
WEWALTER	Milano - I

2.3.12 Winch / Chain / Hoist / Hook / Mooring / Lifesaving / Rope / Equipment Cabinet / Safety Shower / Eye shower, etc..

ADRIA WINCH D.O.O.	HR
ADRIANAVAL	Trieste – I

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ALIOTO GROUP	Castelnuovo MC - I
ARIMAR SPA	Ravenna – I
BARBAGELATA SRL	Genova – I
CANEPA E CAMPI SRL	Genova – I
DOBARCA SRL	Genova – I
D. KORONAKIS SA	Greece
EUROSUPPLY SPA	Genova – I
EUROVINIL SPA – SURVITEC GROUP	Grosseto – I
GERB KOOIMAN BV ZWIJNDRECHT	NL
HYDRALIFT	Norway
HUGHES SAFETY SHOWERS	UK
ITALMET SRL	Ravenna – I
JEAMAR WINCHES CORP.	NORVEGIA
LIFTING & MARINE SERVICES LTD	UK
MEP SYSTEMS PTE LTD	SINGAPORE
MONTMONTAZA GREBEN DOO	HR
NED-DECK MARINE BV	NL
NORAC	NO
NORSAFE AS – (Viking Life-Saving Equipment)	NO
NORVEGIAN MARITIME	NO
NUOVA OLP	Ravenna - I
OMEGA SRL	Ravenna – I
PEGASO PARANCHI	Castano Primo – MI -I
POSIDONIA SRL	Genova - I
S.I.R.T.E.F. SRL	Calvignasco MI – I
S.I.S. SOCIETA' ITALIANA SOLLEVAMENTO SAS	Genova – I
SEC	DE
STROMME	NO
SURVIVAL SYSTEM INTERNATIONAL	USA
VIKING LIFE-SAVING EQUIPMENT AS	DK
YOKE INDUSTRIAL CORP.	Singapore

2.3.13 Lifeboats

ACEBI	France
ARIMAR SPA	Ravenna – I
EUROVINIL SPA – SURVITEC GROUP	Grosseto – I
MARINE SAFETY SOLUTION DESTINI (Feb 2019)	UK
NORAC	NO
NORSAFE AS - (Viking Life-Saving Equipment)	NO
SURVIVAL CRAFT INSPECTORATE	UK
SURVITEC GROUP	UK
UMOE SCHAT HARDING (PALFINGER)	NO
VERHOEF ALLUMINIUM	NL
VIKING LIFE-SAVING EQUIPMENT AS	DK

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2.3.14 Dew Point Analyzers

AMETEK	Worldwide
BAKER HUGHES (PANAMETRICS)	Worldwide
ENDRESS + HAUSER	Worldwide
(now BAKER HUGHES)MICHELL INSTRUMENTS (PROCESS SENSING)	Worldwide
MICRO AUTOMATION PROCESS ANALYSER	MIlano – I
SOCRATE SPA	Milano – I
VYMPEL	Germany

2.3.15 Process / Utilities Vessels / Tanks / Ko Drums

ANGIOLETTI VESSEL SRL	Bergamo – I
ASCANI (GRP TYPE)	Castelfidardo – AN -I
ASTRA REFRIGERANTI (BAGLIONI GROUP)	Galliate – No – I
ATB RIVA CALZONI	Roncadelle/Porto Marghera-I
BE.TA INDUSTRIES S.a.s	Mercato Saraceno – FC – I
BREMBANA ROLLE	Italy
BUMHAN MECATEC	S.Korea
CAMPI	Ferrara - I
C.M.G. SRL	Ferrara – I
CASTIM 2000	Vezza d' Alba – CN
CRYO SERVICE SRL (CRYOGENIC)	Lodi – I
DETEGASA (Stelio Bardi)	Spain
DETTIN SPA	Schio VI
EKME	Greece
EUROGUARCO SPA	La Spezia – I
FIBERSOL (GRP TYPE)	Germany / Italy
F.LLI AMADUCCI	Forlì – FC-I
FAI – OFFICINE DI CARVICO SPA	Carvico – BG – I
GBM Srl	Sirone LC – I
GIAVENT SRL	L'Aquila -I
GIBERTI RL	Carbonate – CO – I
GRANDE MECCANICA SPA	Narni – I
HYOSUNG	S.Korea / China
IDESA	Gjon – Spain
LAPESA	Zaragoza – Spain
MANGIAROTTI SPA	Monfalcone – I
MORIMATSU HEAVY INDUSTRY CO.LTD.	Shanghai-China
NUOVA TUBITAL SCPA	Mestre VE- I
OCS OFFICINE COSTRUZIONI SPECIALI	Padova – I
OF. RA. SRL	Ravenna – I
OFF. ORSI	Milano – I
OFFICINE RESTA	Scanzorosciate – BG – I
PARESA	Cesena-I
PLASTIC GLASS SRL (GRP TYPE)	Cavenago Brianza – Mb - I
SCANDIUZZI	Treviso – I
SIMIC	Camerana CN
SIMIND	Mozzanica – I
TECNOMEC ENGINEERING	Taranto-I

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UNIDRO	S.Pietro Mosezzo-No-I
VRV SRL (CHART INDUSTRIES) (CRYOGENIC)	Milano – I
WALTER TOSTO	Chieti-I
ZANON PRESSURE EQUIPMENT SRL(Bembana Rolle Group)	Schio - I
ZORZI INOX	Camposanpiero – PD-I

2.3.16 Power Transformer / Ner.

ABB S.P.A.	Worldwide
AREVA	Worldwide
CEEG	China
CELME	Vicenza – I
E.M.G.	Bibbiena – I
ELETTROMECCANICA COLOMBO	Italy
ELETTROMILL SRL	Roma - I
GBE	Italy
GETRA	Italy
HILKAR	CZ/ worldwide
HITACHI	Worldwide
HYOSUNG	S.Korea / China
HYUNDAI	S.Korea
IMEFY SPA	Arezzo – I
LATEC	Italy
MF TRASFORMATORI	Calcinato – I
OCREV	Vicenza - I
SCHNEIDER ELECTRIC	Worldwide
SELI	Italy
S.E.A. SOCIETA' ELETTROMECCANICA	Tezze di Arzignano – I
SIDAT	CZ
SONMEZ TRAFO	Turkey
STEM TRENTO SPA	Trento – I
SPECIALTRANSFO	Italy
SIRMET	Italy
TAMINI TRASFORMATORI	Legnano – Mi - I
TESAR SRL	Arezzo – I
TIRONI POWER TRANSFORMERS	Italy
TMC TRANSFORMERS S.p.A.	Busto Arsizio – I
TRANE	USA
TRASFO PROJECT	Montecchio Maggiore – I
TRAFO ELETTRO SERVICE	Tezze di Arzignano – I
SIEMENS	Worldwide
VENETA TRASFORMATORI	Villafranca Padovana – PD – I
YORK	USA
VONK	NL

2.3.17 Gas Insulated Switchgear (GIS)

ABB S.P.A.	Worldwide

HITACHI.	Worldwide
GE (BAKER HUGHES)	Worldwide
HYOSUNG	S.Korea / China
HYUNDAI	S.Korea
KEC INTERNATIONAL	India
SCHNEIDER ELECTRIC	Worldwide
SIEMENS	Worldwide
VONK	Worldwide

2.3.18 Seawater Coarse Filter Package & Ultra filtration package

ASCO FILTRI	Milano – I
GB FILTRI	Milano – I
FILTREX	Milano – I
ELFI	Parma – I
FILDROP	Firenze – I
PALL	Worldwide
REPCO	Milano – I
STC FILTERS	Pedrengo – Bg – I
UNIDRO	Milano – I

2.3.19 Desalination Units, UV Filter Units, Electro-Chlorination Units

ACG MARINE	Genova-I
CANNON ARTES	Milano-I
CULLIGAN	Worldwide
FILDROP	Carmignano-PO-I
HATENBOER WATER	The Netherlands
IDRECO	Voghera-Pv-I
IDROCONSULT	S.Giorgio di Piano-BO-I
INDUSTRIE DE NORA	Milano – I
LENNTECH	Worldwide
OVIVO	Worldwide
PURETECH	Ariccia-Rm-i
SESP	Milano-I
UNIDRO	Milano-I
VEOLIA	Worldwide

2.3.20 Air and Nitrogen Packages

ADICOMP	Isola Vicentina-Vi-I
AIRPACK	The Netherlands
ATLAS COPCO	Worldwide
BLUTEK	Gorle-Bg-I
COES	Stezzano-Bg-I
DUE.GI.	Terre del Reno-Fe-I
SINERGIA	Albino-Bg-I

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2.4 STRUCTURES (E.G. PLATES, SHAPES, FORGINGS, HEADS, GRATINGS, ETC)

Due to the multitude of manufacturers and stock traders of this type of materials, Vendors shall be selected by CONTRACTOR, pursuing the most suitable technical and delivery solution for the project inside its own Corporate Vendors List.

2.5 PIPING (E.G. PIPES, FITTINGS. FLANGES, GASKETS, BOLTS/NUTS, ETC), MANUAL VALVES (ALL TYPES), COATINGS, INSULATION, ETC

Due to the multitude of manufacturers and stock traders of this type of materials, Vendors shall be selected by CONTRACTOR, pursuing the most suitable technical and delivery solution for the project inside its own Corporate Vendors List.

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3 SUBCONTRACTORS

This section details the main categories of subcontract and relevant list of companies. Due to the multitude of services and subcontractors related to the various activities to be executed under the project, such as painting, chemical cleaning-pickling-flushing, fire-protection, non destructive tests, heat treatment, commissioning, etc, CONTRACTOR will be free to select the most suitable Subcontractors inside its own Corporate Vendors List relevant to categories of subcontracts not listed below.

3.1 ENGINEERING SUBCONTRACTORS

ABB	Wordwide
ALBA E&C.	Switzerland
ALFA CONSULTING	Gela-CL-I
APYROS SRL	Ancona – I
ARIGHI ENGINEERING SERVICE	Como – I
ATM ENGINEERING SRL	Roma – I
CESCOR	Milano – I
CM-TS	Taranto - I
COMPAGNIA PROGETTI	Ravenna – I
FASE ENGINEERING SPA	Forli – I
FASE SERVICE	ITALY
FORES ENGINEERING	Forlì – I
FPF DI PANZAVOLTA	Ravenna – I
GBR SRL	Crema CR – I
ICARO	Cortona-Ar-I
IGEAM	Italy
INCICO	Ferrara - I
MES	Worldwide
MOTT MACDONALD	Genova - I
PLATFORMA K	HR
PPC SRL	Siracusa – I
PROECO ENGINEERING SRL	Forli – I
PROGRA SRL -	Ravenna – I
PROMEC STUDIO ASSOCIATO	Cesena-Forlì – I
RAMSE	Torino – I
RINA	Genova - I
S.T.I. LOG. SAS DI BOSSI ROBERTO & C.	Varese – MI
SEMCO	DK
SF-INGE SRL (Ing. Solcia)	Assago MI – I
SIMECO	Milano – I
SPLINE SCRL	Spinea – VE – I
STAFF SRL	Taranto – I
STED SRL	Milano - I
STUDIO C.F. DI FIUMANA CHRISTIAN	Cesena FC – I
STUDIO TECNICO MB	Ravenna – I
ST2 SRL	Cinisello Balsamo-MI-I
T.C.S. ENGINEERING SNC (Sig. Capitani)	Cecina LI – I

TEA GROUP	Ravenna-I
TECNOGRAF	Siracusa - i
TECNOMEC ENGINEERING SRL	Altamura – BA -I
TECNOTEAM SRL	Ravenna – I
TECON SRL	Milano – I
TRILLINI	Ancona - I

3.2 MECHANICAL WORKS SUBCONTRACTORS

2C TECNOIMPIANTI	Gravina di Puglia - I
A&S ENGINEERING	Barbarano Mossano-Vi-I
ALQUA SRL	Ravenna – Taranto
A.T.P. Architettura Tecnologia Progetti S.R.L.	Roma - I
AZ SERVICE	Ravenna – I
AZ TECHNOLOGY	Rovigo – I
BCS NDT SRL	Lodi - I
CAMERANI MALDOLESI SRL	Ravenna -I
CIMA SPA	Piacenza - I
CIMOLAI SPA	Pordenone – I
COIBENT PLASTIC SRL	Pieve Acquedotto – Fc - I
CON-FER	Milano – I
CONSORZIO CAM IMPIANTI INDUSTRIALI	Ravenna – I
CONSORZIO RMB	Ravenna - I
C.T.I. SRL	Roma
CTS SRL	Cavarzere – Ve - I
DM OFFICINE SRL	Ravenna – I
ECOGLOBAL SRL	Fiorenzuola d'Arda – Pc-I
EUROSERVICE	Bertinoro – FC –I
EUROTRAVI SRL	Cordignano – I
EXPERTISE	Vado Ligure-SV-I
FASE SERVICE SRL	Forlì – Fc - I
F.LLI AMADUCCI	Bertinoro – Fc - I
F.LLI RIGHINI	Ravenna - I
FRIGOMECCANICA GROUP SRL	Ravenna – I
GABREX SRL	Ravenna - I
GASTECH SRL	Concorezzo-Mb-I
G.B.C. Industrial Tools S.P.A.	Cazzago S.Martino – Bs – I
GEAS RIVESTIMENTI SRL	Casirate d'Adda-Mb-I
GENTILI SRL	Ravenna - I
GROUP SERVICE GS SERVICE (ora ALQUA SRL)	Ravenna Taranto – I
ICS IMPIANTI SRL	Gela – Cl - i
IRICO IMPIANTI	S.Donato M.se-Mi-I
ISS INTERNATIONAL	Roma – I
ITS INDUSTRIAL TECHNICAL SERVICES SRL	Siracusa – I
KERSTEN BV	The Netherlands
M.A. CARPENTERIA E MECCANICA SRL	Limena-Pd-I
MARINE WORK SYSTEM	Ravenna – I

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MANNI SIPRE SPA	Verona - I
MANUTEN CO.M.I.C.	Ravenna - I
MCS SRL	Imola – Bo – I
METAL CAMUNA SRL	Ceto (Bs) - i
METALSAN SRL	Valeggio VR – I
MODITECH SRL	Busnago - Mb – I
NAVALMECCANICA RAVENNATE SRL	Marina Di Ravenna-RA-I
NEW EUROART S.R.L.	Grumo Appula-Ba-I
NUOVA M.E.G.A. SRL	Ravenna – I
NUOVA O.M.G. SRL	Ravenna – I
O.M.G. SRL	Strongoli-Kr-I
OCEM	Monselice-Pd-i
OFFICINA M.C.I. S.R.L.	Ravenna - I
OFFICINE RAM POWER	Ravenna – I
OFRA SRL	Ravenna - I
OMC MONTAGGI	Oria – I
OSSITAGLIO S.P.A.	Parma - I
PLATFORMA K d.o.o.	Ravenna - I
PROPLAN D.O.O.	Rijeka – HR
QUALITY TEST S.R.L.	Ravenna
RODEO SRL	Napoli - I
SECOM SERVICE SRL	Ravenna – I
SIDERFLANGE SRL	Cesena – Fc – I
SIDERTAGLIO CALANDRATURA S.R.L.	Povolaro-Vi-I
SIDERTAGLIO S.R.L.	Modena - I
SIDERURGICA RAVENNATE 2.0. S.R.L.	Ravenna – I
STC srl	Grottaglie – Taranto – I
SURVEYING SYSTEMS SRL	Ravenna - I
TEAM ENGINEERING SRL	Ravenna - I
TECNOMEC ENGINEERING SRL	Taranto -I
TEKNOWOOL ADRIATICO S.R.L.	Camerata Picena – An -I
TURCHETTI BRUNO S.R.L.	Ravenna – I
V.I.P. Verniciatura Industriale Pesarese S.R.L.	Pesaro - I
WELDING DUEBI	Fiesso Umbertiano-Ro-I
WIFORCE ITALIA SRL	Marcon-Ve-I

3.3 ELECTRICAL, INSTRUMENTATION & TELECOMMUNICATION WORKS SUBCONTRACTORS

2C TECNOIMPIANTI	Gravina di Puglia - I
3W POWER	Vimercate-Mb-I
ABB	Worldwide
ABR IMPIANTI	Ravenna - I
BERGO IMPIANTI	Taglio di Po –RO –I
BESADA IMPIANTI ELETTRICI	Milano - I
BIESSE SISTEMI	Ravenna - I
CMEV	Campolungo-VE -I
DEVELOPMENT ENGINEERING AUTOM.	Milano – I

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ELETTROTECNICA IMOLESE	Bubano di Mordano-Bo-I
EMMETI ELETTROSTRUMENTALE	Ravenna – I
EXPERTISE	Vado Ligure-SV-I
FASE SERVICE	Forlì – FC - I
FORES ENGINEERING	Forlì – I
GRUPPO FERRARI	Ravenna - I
INTAC	Senigallia - I
ISS INTERNATIONAL	Roma – I
LOTUS INSTRUMENTS	Ravenna - I
MARINE WOK SYSTEM	Falconara – An - I
MODITECH	Busnago MB – I
PLATFORMA K d.o.o.	Ravenna - I
RUSSO IMPIANTI	Ravenna - I
SATELLITE COMMUNIC. SERVICES	Treviso – I
SCHNEIDER ELECTRIC	Worldwide
SITIE IMPIANTI INDUSTRIALI	Ferrara – I
SONEPAR ITALIA	Padova – I
SPHERA	Ravenna - I
TECNOMEC ENGINEERING	Taranto-I
TELELETTRA	Terni - I
TELETTRA	Benevento – I
TELICA	Lissone – Mb – I
VEM SISTEMI	S.Giorgio – Fc - I
VIP GROUP	Arcade-Tv – I
ZANETTI SOLUTION	Ravenna - I

3.4 BARGE / CREW TRANSPORTATION / TUGS / TOWAGE / IMPORT EXPORT TRANSPORTS / SUPPLY VESSEL SUBCONTRACTORS

ADRIATRANS SRL	Manrupino TS – I
APRILE PROJECT SPA	Genova - I
ASSTRA ASSOCIATED TRAFFIC AG	Zurigo – CH
AUGUSTEA SPA	Augusta – I
BAMBINI SRL	Ravenna – I
BOA BARGE	Norway
BRODOSPAS	Split -HR
CARGOLINE SRL	Noceto- I
CARTURAN AUTOTRASPORTI SRL	Limena – I
CATTARI TRASPORTI SRL	Tortolì CA – I
CISAF SRL	Bergamo – I
CORTI AUTOTRASPORT SRL	Sirone – I
CO.RIM.A. SPA	Ravenna – I
COLOGISTIC CONGO	Congo
COMPAGNIA TRASPORTI E SPEDIZIONI - SCCA	Forlì – I
CON.S.A.R. SOC. COOP. CONS.	Ravenna – I
CONSORZIO CONTARINESE ESCAV. TRASP.	Rovigo – I
DAVID H. GAVAN & SONS SHIPPING S.R.L	Bari – I

F.LLI NERI SPA	Livorno – I
FAGIOLI-SAN MARCO SHIPPING	Reggio Emilia – I
FAIRMOUNT	NL
FERCAM SPA	Bolzano - I
FRATELLI BARRETTA	Brindisi – I
GEODIS ZUST AMBROSETTI SPA	Milano – I
GOTTARDO RUFFONI RONDINE SPA	Campogalliano MO – I
GRUBER LOGISTIC S.P.A.	Verona - I
HEEREMA Marine cont.	NL
INTECH PROCESS AUTOMATION INC	USA
INTERNATIONAL SHIPBROKERS	Genova – I
ISB OFF-SHORE	Corporate
JPS	Rjeka – HR
J-UB	Corporate
KUEHNE & NAGEL SRL	Milano – I
LAPIANA SPA	Spini TN – I
LINEAR FORM SRL	Ravenna – I
LKW WALTER INTERN. TRANSPORTOTG. AG	Kufstain – AUSTRIA
LOGISTICA NIEDDU SRL	Olbia - I
LPL ITALIA SRL	Genova – I
MAGIS S.P.A.	Taranto - I
MARINIA LLC SEAFOX ASIA PACIFIC	Qatar
MARISPED SRL	Ravenna – I
MARNAVI SPA	Napoli – I
MICOPERI	Ravenna - I
NAVALMARE	La Spezia – I
NOR-CARGO AS	Oslo - NORVEGIA
NORD EST GROUP SRL	Casarza D. Delizia PN - I
OCEAN SRL	Trieste – I
PANALPINA TRASP.MOND. SPA	Lucernate di Rho MI - I
RHENUS	Corporate
RIMORCHIATORI LAZIALI	Civitavecchia – I
RIMORCHIATORI MERIDIONALI SRL	Napoli – I
RIMORCHIATORI NAPOLETANI SRL	Napoli – I
RIMORCHIATORI SARDI	Cagliari – I
SAGA ITALIA SPA	Milano – I
SAPIR PORTO INTERMODALE RAVENNA SPA	Ravenna – I
SDV ITALIA SPA / SDA CONGO PNR	Pantigliate MI – I
SERS	Ravenna – I
SIMAP SRL (Smaltimento rifiuti a mare)	Ravenna – I
SIMAR SPA	Pomezia – I
SMIT'S	NL
T. MARIOTTI SPA	Genova – I
T.E.L.S. TRANS. LOGISTIC SERVICES	Londra – UK
THOMAS INTERNATIONAL	Bologna - I
TIROLTRANS NUOVA SRL	Bolzano - I
TOPAZ ENERGY and MARINE LTD	UK – Bermuda - UAE
TRASCONTI SRL	S. Arcangelo RN – I

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TRASMOND GROUPAGES SRL	Milano – I
VENEZIANA NAVIGAZIONE	Venezia – I
VERLICCHI ROMANO SRL	Ravenna - I
VIKING BARGE KS	Kristiansand – NO – I
Marine Master	NL
HEBO	NL
C-Ventus	NL

3.5 LOAD OUT ACTIVITIES SUBCONTRACTORS

FAGIOLI – SAN MARCO SHIPPING	Reggio Emilia – I
MAMMOET	Milano – I
SARENS	EU
ZANETTI SOLUTIONS	Ravenna

3.6 TECHNICAL MANPOWER SUBCONTRACTORS

CTRA TUNISIE	TUNISIE
FALCON MULTI SERVICES LTD	Corporate
ITALIANA SERVZI INDUSTRIALI	Mantova - I
RIGZONE	Corporate
TAP SERWIS SP ZOO	PL
C-VENTUS	NL

3.7 T&I TRANSPORTATION & INSTALLATION SUBCONTRACTORS

HEEREMA MARINE CONTRACTORS NL	NL
DEME	NL
SEAWAY SEVEN	NL
ALLSEAS	CH
SCALDIS	NL