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Moray West – Meet the Buyer

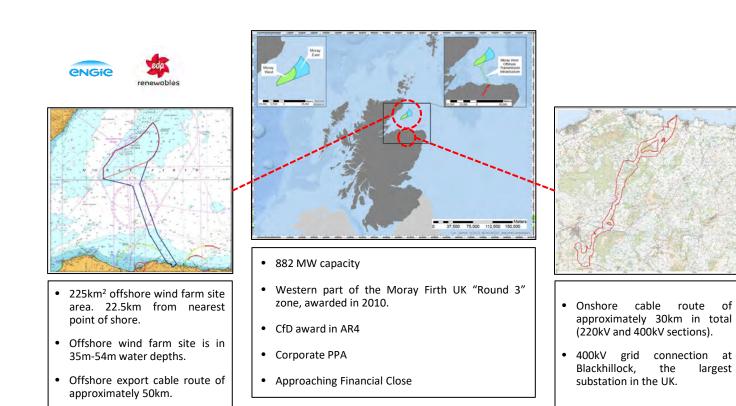
Transport & Installation scopes

March 2023

Moray West Introduction

Project Overview







2

Moray West Programme



- 2022-23 onshore works at Whitehillock substation site and along onshore transmission cable corridor
- Summer 2023 Start offshore installation works
- 2024 Commissioning and first power
- 2025 Final handover to operations team

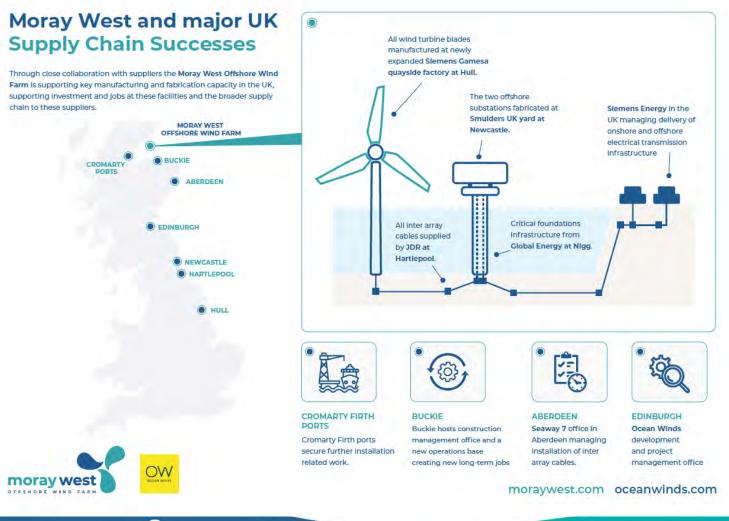






Moray West Direct Procurement







Moray West Direct Procurement



- Marine construction support specialist services (largely contracted)
 - > Surveys
 - > CTVs
 - Boulder relocation
 - Shipping agent
- O&M in Buckie









• DeepWind cluster role



- Supplier database
 - Register at <u>https://www.oceanwinds.com/suppliers/</u>
- Testing use of OGA Energy Pathfinder <u>https://www.ogauthority.co.uk/supply-chain/energy-pathfinder/</u>
- Funding & Support Offshore Wind Growth Partnership funding <u>https://owgp.org.uk/new-opportunities-launched/</u> (CES, HIE, BEIS also have options)
 - Fit4Offshore programme







ScotWind- and supply chain continuity



Ocean Winds longer term pipeline



- Moray extension 'Caledonia' 2GW
 - AC connection
 - Proven tech Fixed foundation
 - Proven site
- The race is on development speed
- International / export opportunities for trusted suppliers
- East of Shetland 1.8GW ('Arven') + 0.5GW floating









Moray West Project Meet the Buyer Event

29th March 2023

SIEMENS Gamesa

© Siemens Gamesa Renewable Energy

Creator Name (Org. Code)

Unrestricted | Restricted | Confidential | Strictly Confidential [select one and delete the rest]

Table of content / Agenda

SGRE Business Overview

Moray West Project Construction Overview

Moray West Project Procurement Overview



Key facts and figures¹



130 GW Globally installed



28,150 People



€9.8 billion Annual revenue²

E E
\square

€12.3 billion Market capitalization



€33.7 bn Order backlog

¹ End of December 2022 ² End of September 2022



Truly **global**, modern and scalable **footprint**

=-	
	•

Advanced **digital** capabilities



Portfolio covering all requirements

Unrestricted © Siemens Gamesa Renewable Energy, 2023

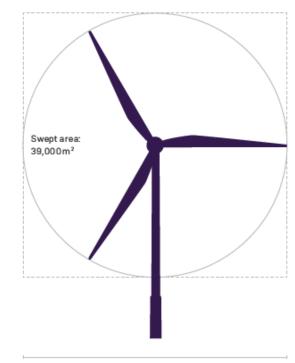


Moray West Project key facts and project scope

Ownership	Ocean Winds [Engie, EDPR] (95%) & Ignitis (5%)
Capacity [MW]	860
WTG type	SG DD-222 (14MW)
No. of WTG	60
Distance to Nig port [NM]	42
Rotor Diameter	222m
Swept Area	39,000 m2

SGRE Scope:

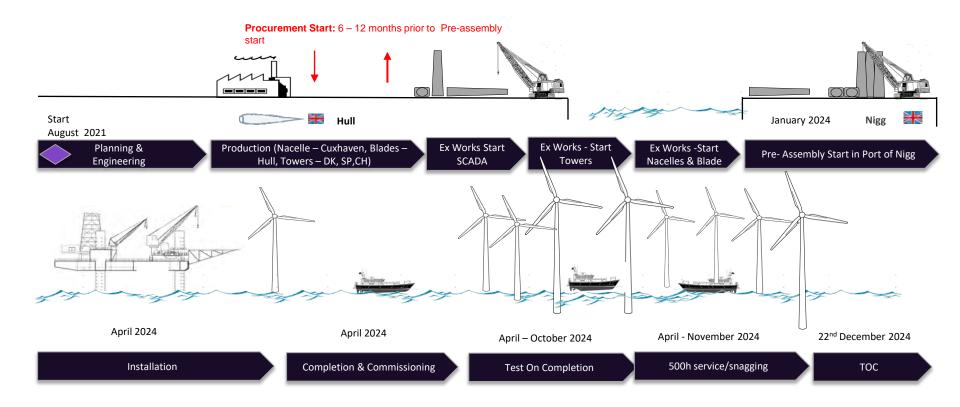
Supply 60 x SG DD-222 14MW incl. assembly, transportation to harbour (Nigg), load out, installation, commissioning, Installation Vessel, (Potential SOV), CTV's, resources, tooling.



222 meters

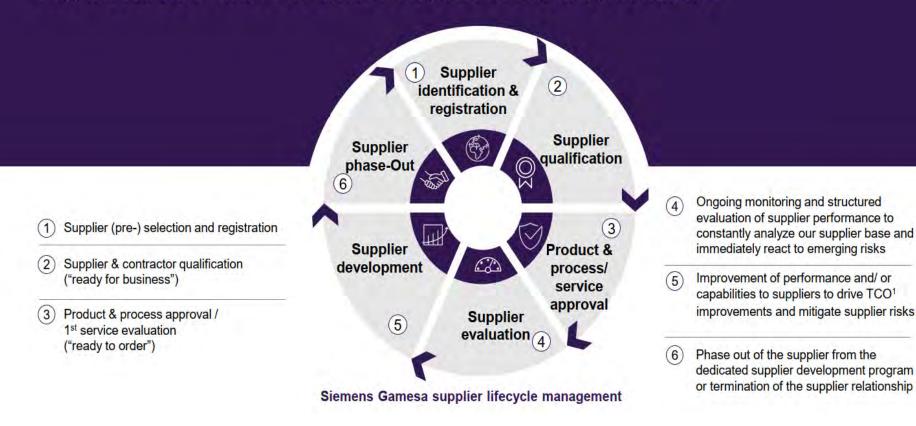


SGRE - Execution Overview and Indicative Timeline





Siemens Gamesa supplier lifecycle management orchestrates all supplier related activities to ensure best possible supplier performance





Qualification process

As Quality & HSE¹ are key elements for our success, becoming an approved supplier or contractor follows a 2-step process



1) HSE = Health, safety & environment I 2) R4B = Ready for business I 3) R2O = Ready to order I 4) PPAP = Production part approval process I 5) FAI = First article inspection I 6) APQP = Advanced product quality planning I 7) QHSE = HSE = Quality, health, safety & environment



Pre-Assembly Site Setup

Site Infrastructure

- Construction project office
- Warehouse structures
- Welfare cabins
- ...

Site Consumables

- Tools and small parts
- Fasteners
- PPE

•



Site IM Requirements

- Plant hire
- Transport and Site Vehicles
- Stationery and office IT equip
- Service accommodation
- Port Agents
- • • •

0000	

Others

- Civil Works
- Seabed Remediation
- Welding and None critical fabrication
- Offshore Temporary Power
-



Minimum selection criteria

Code of Conduct acceptance

- Corporate Responsibility Self-Assessment
- Contractor Safety (HSE)
- Industry experience highly valued
- Payment terms
- SQ audits with integrated Code of Conduct module
- External sustainability audit



Walk 2 Work Vessel (CSOV)

Focus: Offshore Accommodation and Access to turbine for SGRE technicians for commissioning



Top requirements for W2W suppliers

Min 50 Single Cabins for SGRE Personnel

Installed Gangway system with Min transfer capabilities 2,5 M Hs, 20 $\,$ M/sec

Min DP capabilities: Min 2,5 M Hs, 20 M/sec

Offshore Fueling capabilities for CTV's

Stay Offshore min 30 days

High comfort class



Crew Transfer Vessels



Top requirements for CTV suppliers

Transfer capabilities Min 1.75M Hs

Min 24 Pax

Able to accommodate vessel crew onboard

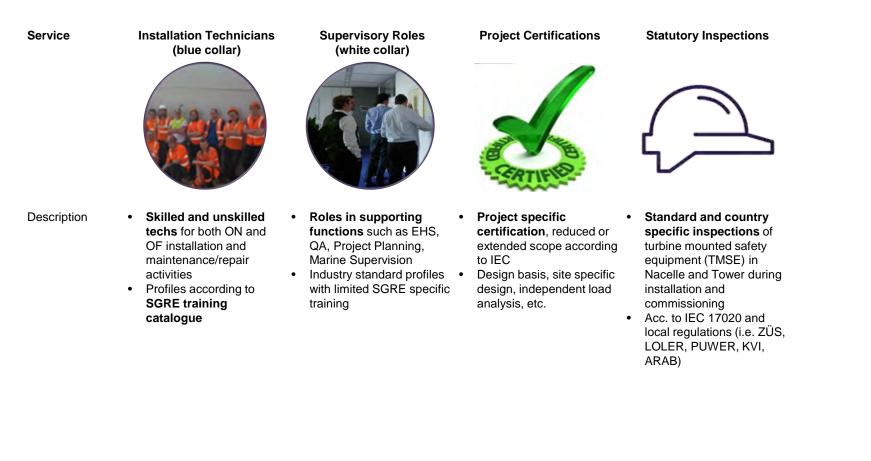
Able to do 24 Hrs Operation

Offshore Fueling

Min 20 knots service speed

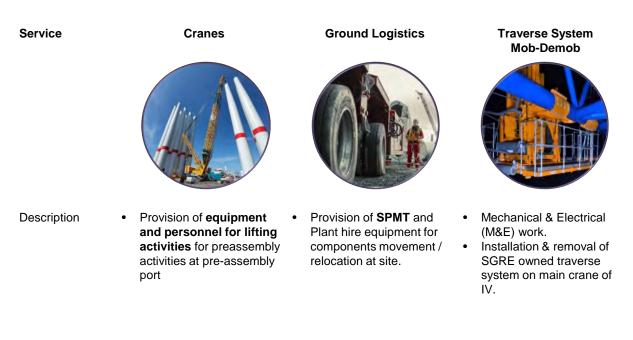


Commodity Overview: CNS & ENG. SRVS.





Commodity Overview: CNS & ENG. SRVS. Continued



Quayside Equipment Mob-Demob



- Mechanical & Electrical (M&E) work.
- Installation & removal of large steel constructs at the pre-assembly site, such as: Compact Tower Frames, X-frames, and Atlas Stands





Thank you!

Name:Priscilla UgohJob TitleProject Procurement ManagerPhone07808 826754Email:Priscilla.Ugoh@siemensgamesa.com

Steef Stijbos Construction Project Manager +45 30 37 52 48 Steef.Strijbos@siemensgamesa.com Sam Wilkinson Deputy Commercial Project Manager 07921 245675 Samantha.Wilkinson@siemensgamesa.com



Project Moray West



MEET THE BUYER Inverness 29.03.2023

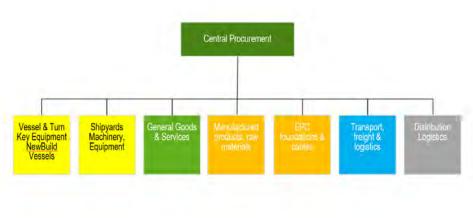
Deme Procurement Process MW Project Scope of work

Elena Jovanovska Project Procurement Coordinator Andrew Tuke Project Engineer



ACTIVITY LINES AND PROCUREMENT CATEGORIES







Registration in Potential supplier Database

Any supplier can always introduce themselves via DEME Website:

https://www.deme-group.com/register-our-potential-supplier-database



Click below to register in our Potential Supplier database.





Registration of Chosen Supplier

Suppliers that are selected for Contract/PO shall be registered in DEME Procurement tool-Ivalua <u>https://deme-group-supplier.ivalua.app/page.aspx/en/sup/registration_extranet_manage</u>. Once registered supplier will be automatically setup in the invoicing system as well.

← C G ⊡ https://deme-group-supplier/value	app/pugeasov/en/sup/registration_extranet_manage	• • • • • • • • •				
S DEME		<u></u> .О	Welcome to the Procurement Portal of the DEME Group!			
New Supplier? Regis	ter Now					
	a Righter Cancel					
Fields marked by an asterisk * are mandatory						
Company information	Help us identify your company. Populate these fields!	Security Control				
Supplier Legal Name*	Registration Number (0)					
Trade Name (English)	VAT Number ()	Regardineers and				
Legal name in Supplier's local language	Tax Number ()	_				
Year Founded.	DUNS Number ()	-	This portal will support all procurement processes, including Supplier Relationship Management, Source to Contract and Request to Pay.			
Website						
Phone Prefix Phone Number			Many thanks for joining DEME's procurement journey!			



DEME Project Scope

Monopile Installation

29 MPs Installed with Floating Vessel Orion

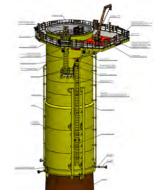
Loaded from Invergordon 6 at a time





Transition Piece Installation

60 TPs Installed with Jack Up Apollo Loaded 4 at a time







Programme

	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Jul-24
MP Campaign	Mobilisation	Operations			Demobilisation				
TP Campaign	Mobilisation	Operations Demobilisatio			Demobilisation				

Required Services

- Transport / Logistics
- Load testing, NDT testing
- Rigging services & Inspection
- Steel and Welding: on & off-site fabrication, painitng
- Scaffolding
- General site services: Cranage, forklifts, containers etc.
- Confined space entry
- Working at Hight companies

- Acoustics
- Renting of small vessels and CTV`s, Barges
- Waste disposal
- Measurement equipment
- Hydraulics and hose repair/replacement
- Ballasting company
- Gangway rental

- Laboratories
- Small handling tools
- Light mast and generators
- Helicopter services
- Diving
- Inspection companies
- Man power (onshore assistance)
- Rope access technicians



Dredging, Environmental & Marine Engineering



BOSKALIS

THE LEADING DREDGING & MARINE EXPERT THAT CREATES NEW HORIZONS FOR ALL ITS STAKEHOLDERS.



MEET THE BUYER

INVERNESS MARCH 29, 2023

BOKALIFT 2

ঞ ⊾ Boskalis

BOSKALIS SERVICES IN THE OFFSHORE ENERGY PROJECT LIFE CYCLE





MORAY WEST PROJECT - BOSKALIS' SCOPE

- 1 MONOPILE TRANSPORT
- 2 SCOUR PROTECTION INSTALLATION
- 3 MONOPILE INSTALLATION
- 4 OFFSHORE SUBSTATION INSTALLATION





MONOPILE TRANSPORT



Boskalis

- Heavy Transport Vessel 'White Marlin'
- Period May 2023 December 2023
- Two trips White Marlin
- Loading 8 MPs in China each trip
- Offloading in Port of Cromarty Firth



SCOUR PROTECTION INSTALLATION



• Fall Pipe Vessel 'Rockpiper'

- 101,700te of rock
- July-August 2023

ঞ ⊾ Boskalis



MONOPILE AND SUBSTATION INSTALLATION



- Heavy Lift Vessel 'Bokalift-2'
- Loading monopiles and ancillaries in Port of Cromarty Firth
- Loading OSP components, grout, bolts

^{ট্র} ▶ Boskalis



BOSKALIS ACTIVITIES - TIMELINE



SUPPLY CHAIN REQUIREMENTS



- Maritime/ shipping agents
- Port authorities
- Port service providers
- Maritime service providers
- Ship chandlers
- Logistics/ transport providers (personnel and goods)
- Accommodation providers
- Helicopter service providers
- Crewing services
- Steel fabrication and equipment supply



BOSKALIS

VISITOR'S ADDRESS

ROSMOLENWEG 20 3356 LK PAPENDRECHT NETHERLANDS

WWW.BOSKALIS.COM

CONTACT PERSONS

Arien Fries	- Project manager transport
Frodo Leenhouts	- Project manager installation

- Callum MacArthur Marine operations manager
- Paul Roode Assistant project manager













OFFSHORE W BROCHUR

OFFSHORE OIL&G

CREATING SUSTAINABLE HORIZONS





Moray West Marine Contractors - 'Meet the Buyer' 29th March 2023

#All-ROUND ENERGY

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SUPERHUB SUPERHUB

GEG @ Port of Nigg

Nigg Yard purchased in 2011

Mitsui investment in GEG 2012

300,000 sqm of storage and laydown is currently available at Nigg

An additional 665,000 sqm has been identified as additional storage and laydown (strategic land)

LAT deep-water quayside 1,400m

One of the largest dry dock in Europe

Looking to the future

"

The Cromarty Firth and Nigg is the **most suitable location in Scotland** for platform fabrication and manufacture"

(Source: SOWEC, 2021)

Current services

- Staging
- Marshalling
- · Scaffolding and access
- Quayside services
- · Project management
- Grillage fabrication
- Seafastening

Future growth

- · Land development
- R&ET fabrication
- FLOW assembly
- Rolled steel manufacturing
- O&M

Market opportunity

- UK Government OW 50 GW target by 2030
- UK offshore wind projects target to deliver against 60% local content
- OEM cluster engagement for long term leases
- Nigg proximity to 11 Scotwind projects
- Between 3.6m te and 7.2m te of steel required for 22GW of FLOW depending on weight of individual floating unit



SITE DEVELOPMENT

For generations, in times of war and peace, the Port of Nigg has been a site of national strategic importance. As the world transitions to Zero emission energy sources, Port of Nigg's place in history, will be defined by its leading role in the delivery of the UK's Offshore Wind Sector Deal, an ambitious partnership between the UK Government and the offshore wind industry that will see 50GW of offshore wind by 2030.

2011

ACQUIRED FORMER OIL FABRICATION YARD



Established in 1972 custom-built to service Scotland's emerging oil & gas industry. Acquired by Global Energy Group in 2011, with a vision, to follow a more sustainable model in the future.

2020

OPERATED AS A WORLD-CLASS MULTI-SECTOR ENERGY FACILITY



In excess of £120 Million has been invested in the ongoing development and expansion of the site. The investment to date has transformed the traditional fabrication yard into a world-class multi-sector energy facility.

NOW

SUPPORTING SCOTLAND'S TRANSITION INTO CLEAN ENERGY



Transform the Port into Scotland's leading energy hub, securing the nations place in the energy sector for generations to come.



SITE STATISTICS

A world-class location, unrivalled UK capability, proven over multiple project campaigns.









- 15-minute transit time to open sea. Sheltered harbour with 24/7 access, 365 days a year.
- One of the UK's largest deep-water quaysides with 12 metres depth at LAT- Over 1400 metres of berthage.
- 50 metric tonnes/square metre ground bearing capacity across all quayside and land storage areas. Solid seabed conditions alongside which accommodate the world's largest jack-up installation vessels.
- Large on-land storage capacity for wind turbine generator components (towers, nacelles and blades) as well as offshore foundations.
- Strategically located for access to ScotWind projects.
- Total port historic and planned investment, (which includes the establishment of a rolling factory, inner East quay upgrade, land acquisition, site services upgrade and land preparation for inward investors) is in excess of £200m.
- Highly-skilled logistics, project management, inspection and remediation teams based on site.
- An internationally-recognised ISPS Port with 24-hour/365-day security and extensive CCTV throughout.
- Heavy cranes, self-propelled trailers, road haulage, ocean-going tugs and work boats permanently resident on site.
- The Port of Nigg is governed by robust Health and Safety procedures.

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SCOPE OF EXPECTED SUPPLY Transition Pieces

Facilities

- Ground preparation and improvement works.
- · Storage areas including perimeter fencing and access control.
- Warehousing for component and material storage.
- Hard standings construction suitable for craneage operations.
- Utilities and waste disposal at the onshore facilities.
- Environmental management plan for onshore facilities.

Operations

- Project management and operational logistics services.
- Marine support services.
- Shore based site services Forklifts, Reach Stackers, Riggers, Banksmen, etc.
- Crane and plant services.
- Quayside services and manpower.
- Scaffolding services.
- · Welding support services.
- Ship's agency services.

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Foundation Component Marshalling



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#All-ROUND ENERGY







Clarksons Port Services

Moray West Marine Contractors - Meet the Buyer

29th March 2023



Meet the team



Paul Young Account Manager

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Tom Sleeth Senior Manager | Agency

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Fotios Vasilopoulos Agency Manager

Aberdeen <u>fotis.vasilopoulos@clarksons.com</u> +44 7425 426 314





Our unique business model

A complete ecosystem of maritime services

Broking: Unrivalled global broking services backed by rich data market intelligence.

Financial: Evolving the financial services available to the maritime sector by completing landmark transactions across the marine and offshore sectors.

Research: Providing uniquely powerful data and intel to the maritime industry.

Enabling global trade. Leading pos

Port services Powered By INTELLIGENCE

>

Financial

Broking

Technology

Port services: Worldwide port coverage offering unrivalled support for the marine and energy industries.

Technology: Offering smarter shipping through the world's first end-to-end digital shipping platform Sea/ the industry's most powerful market insight tool.

CLARKSONS









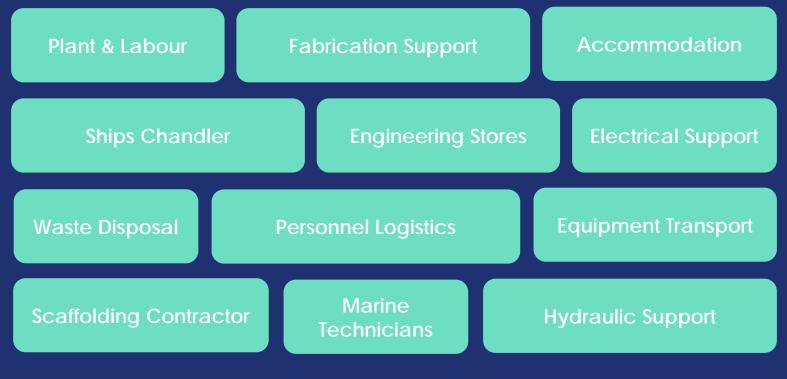
Our services







What we require







How to become a supplier







Offshore Wind Growth Partnership

Offshore Wind Growth Partnership

Clarksons Port Services is a beneficiary of the Offshore Wind Growth Partnership Sharing in Growth Offshore Wind Programme.

Our participation and engagement in the programme aims to improve our efficiency and productivity within the UK offshore supply chain.

On the 16th November 2022, CPS won the '2022 All STAR Winner Award' in recognition of its engagement with customers/suppliers to provide an enhanced offering, increasing the opportunities to sustainably grow its organisation within the Offshore Wind sector.



Thank you













Who we are:



Sarens PSG Ltd

50 / 50 joint venture between Sarens NV & PSG Marine & Logistics Ltd

Mission:

- To be the leading provider of heavy lift & transport, port marshalling services, and innovative solutions in the offshore wind sector in Scotland and globally
- Reduce cost and solve some of the technical challenges currently facing the offshore wind industry relating to deployment and integration solutions
- Drive down cost through innovation and engineered heavy lift and transport solutions

Who we are



PSG Marine & Logistics Ltd

- Based in Invergordon, Port of Cromarty Firth where we have operated for over 30 years
- Provider of logistical support, port marshalling, heavy lift and transport services
- Highly active in offshore wind project support. Having supported all OWF projects constructed in the area to date including Beatrice, Moray East and Seagreen.



Who we are

Sarens

Sarens

- Sarens is the global reference in heavy lift and transport and innovative solutions to the OWF sector
- Operational in over 100 countries, with an extensive fleet of conventional and specialist lifting and transportation equipment.
- Provider of innovative solutions for component handling, all designed and developed internally



Sarens PSG – Moray West Project



- During Q4 2022 Sarens PSG Ltd were awarded a major IDP Marshalling Scope to be executed from Invergordon during 2023 and 2024 by Ocean Winds.
- Scope of work includes the load-in, on-shore handling and load-out of 62 XXL Monopiles destined for the Moray West Offshore Wind Farm
- Sarens PSG will act as the 'Principal Contractor' and provide all IDP services in Invergordon
- Engineering underway first XXL MP Q2 2023
- Last MP Q1 2024

Moray West – Sarens PSG Scope



- Design, supply, install, maintain and remove gravel dunes for the base case XXL MP storage
- Provide SPMT transport solution to enable the RoRo load-in from HLV 62 XXL MP and self-offload to gravel dunes
- Reload to SPMT at storage and deliver back to installation vessel
- Provide bespoke solution for rotating MP in Invergordon
- Act as Principle Contractor
- Provide all engineering documentation
- Inspection and Coating Repairs

IDP Invergordon – Quay West



- 120,000 sqm laydown
- 370m deepwater quayside
- No access restriction, non-tidal
- No issues with swell
- 24/7 x 365 access and services
- Quayside suitable for RoRo operations and storage of XXL MP



Purchasing & Contracting



1. Major Sub-contracts:

- Civil Engineering Contractor Gravel Dunes
- Steel Fabrication SPMT Saddles and RoRo Ramps
- Harbour Towage
- MP Machining

2. Other Sub-contracts :

- Accommodation
- Mobile Lighting Towers / Telehandlers / MWEPs
- Fuel & Lubricants
- Hydraulic Equipment Repair
- Lifting Equipment / Accessories
- PPE
- Drone / Photography Services
- Inspection Services
- Signage / Barriers / Safety Equipment





Moray West Meet the Buyer Presentation

29th March 2023



Seaway7 – Sustainability

We support developers to bring renewable energy to the world. We are committed to ensuring sustainable practices run throughout our business. We have made significant progress in establishing a sustainable business that stands us in good stead for the future.

Our sustainability priorities:

- Health, safety and wellbeing
- Energy transition
- Labour practices and human rights
- Business ethics
- Operational eco-efficiency
- Ecological impacts



Seaway 7 support the UN Sustainable Development Goals





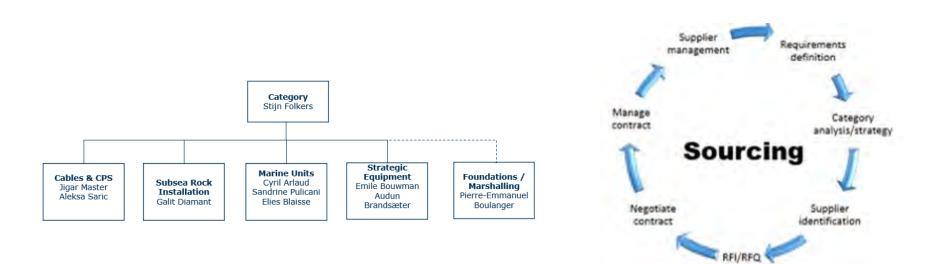
Our Locations Global Reach and Local Presence



61



Strategic Procurement – Category Model

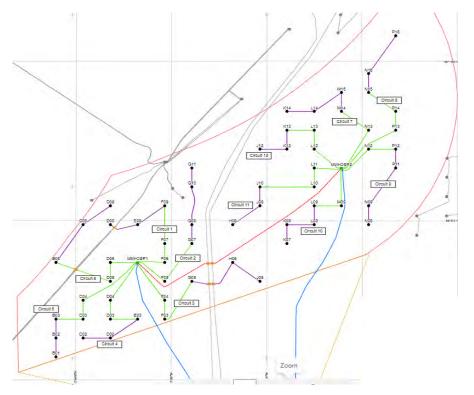


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Moray West OWF - Inner Array Cable Scope

- Laying **138km** of IAC Cable
- Connecting **60** wind turbines
- To 2 offshore Sub Stations
- Working in a Water Depth of **35 55m**
- Offshore program Feb 2024 mobilization
- Cable lay, pull-in & testing until May 2024
- 4 main vessels in field for duration
- Consisting of CLV, ISV, TSV, rock placement
- Additional survey, PLGR & CTVs as req





Seaway7 - Potential Scopes

- Cable Storage Yard
- Mobilisation port services
- Logistics & transport services
- Fabrication Support
- ROV services
- Pre-construction Survey Services
- HV Electrical works personnel offshore
- Electrical Inspection Services
- Electrical testing equipment
- Equipment calibration services
- Quayside waste & scrap disposal
- Offshore 4G comms Services

- Onshore Accommodation
- Travel related services; taxis, buses
- Ad-hoc tooling
- Helicopter services
- Vessel Charters, CTVs, survey, PLGR, Guard
- Rigging
- Hand tools
- Generators, HPUs
- Provision of supplies, water, MGO fuel & diesel
- Fenders, forklifts etc



Supplier Registration

SAP Ariba

- Sander Overduin Seaway 7 Supplier Management (sander.Overduin@seaway7.com)
- Register on SAP Ariba
- Qualification on SAP Ariba

