SME GUIDE

For international collaboration with The Netherlands on blue growth activities in the North Sea region



www.periscope-network.eu



Are you working in the marine or maritime sector, the domain of renewable energies or any other field related to blue growth, and thinking of starting a project in the North Sea area? Then you might want to start a collaboration with another region, that has the necessary testing facilities or the specific skills to make the project a success. This guide will give you an overview of the tools for blue growth collaboration that The Netherlands has to offer.

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QUICK GUIDE



WHAT DOES THE NETHERLANDS HAVE TO OFFER?

The Netherlands has been able to build a strong maritime position in the world, thanks in part to its strategic location at the mouth of the Meuse, Rhine and Scheldt. In some sectors the Netherlands is global market leader. This includes seaports, maritime and logistics infrastructure, offshore, hydraulic engineering, transport of heavy cargo and construction of super yachts. In 2018, the maritime cluster employs around 263.000 people with some 21.000 companies and realized a total added value of € 23 billion. That is 3% of the GDP of the Netherlands. (Rijksoverheid, Nederlandse Maritieme Monitor 2019)

The Dutch maritime strategy 2015-2025 offers an integral framework for the government-wide policy for the maritime cluster. The strategy places an emphasis on six cluster wide policy areas including human capital, innovation, trade, accessibility, safety and the environment and security and stability. (Rijksoverheid, 2015)

The North Sea coastline of the Netherlands is about 350 kilometres long with about 2.5 million people living in the four maritime regions. The main economic maritime activities are geographically divided into four regions: Northern sea ports (Delfzijl, Eemshaven, Harlingen, Den Helder);

North Sea Canal (Amsterdam and surroundings);

Rhine and Meuse (Rotterdam and surroundings); and

Scheldt basin (Vlissingen and Terneuzen). (Ecorys, 2012)

The Rhine and Maas maritime region is formed by the largest port in Europe, Rotterdam, but the cluster also consists of several components. The maritime manufacturing industry - think for example of offshore and dredging vessels or superyacht construction - and suppliers to the maritime network are also important components in the maritime cluster. The cluster is also relatively strong in the field of offshore and hydraulic engineering. The Dutch cluster is also strong in the area of inland navigation; Within Europe, the Netherlands makes the most use of inland navigation as a transport modality. (Maritime Delta, 2018)

The northern provinces have a number of larger seaports in Groningen and Friesland, namely Groningen Seaports, including the Eemshaven and the ports of Delfzijl, Lauwersoog and Harlingen Seaports (Netherlands Maritime Technology, 2014). Den Helder is the largest logistics hub for Offshore in the southern part of the North Sea ("Port of Den Helder", n.d.).

When looking at the RIS strategy (Regional Innovation Strategy) of the Dutch maritime regions, several strategies are found. For the Northern provinces of Groningen and Friesland (location of the northern seaports Delfzijl, Harlingen and Eemshaven), among other things, sustainable energy, water technology and smart (sensor) systems are being mentioned. In the field of water technology Wetsus is an international knowledge institute and cluster organisation, based in Friesland. When looking at the RIS strategy of the West Netherlands, there are no RIS3 items that directly connect with the blue economy. This is remarkable, since a large maritime sector is present in this area. (European Commission, n.d.)

When working on a project that focuses on seaports, maritime and logistics infrastructure, offshore, hydraulic engineering, transport of heavy cargo or construction of super yachts, the Netherlands has a lot to offer.

INTELLECTUAL PROPERTY RIGHTS (IPR), REGULATIONS AND STANDARD SUPPORT

IPR

IPR				
LOCAL IPR AMBASSADOR	WEBSITE		TELEPHONE NUMBER	EMAIL
NL Octrooicentrum		jn.rvo.nl/octrooi- 1-in-nederland	+31 (0)88 042 6660	octrooicentrum@rvo.nl
MARINE SPATIAL PLANNING				
Policy Document on the Nor 2016-2021		https://www.noordzeeloket.nl/en/Images/Policy%20Document%20on%20the%2 0North%20Sea%202016-2021%20%28download%29_4895.pdf		
REGULATION AND STANDAR	D SUPPORT			
AGENCIES TO CONTACT CON	ICERNING ST	ANDARDS SUPPORT		
Name agency		NEN		
Concerning		NEN supports the st	andardization process in The I	Netherlands.
Link to website		www.nen.nl		
telephone number		(015) 2 690 391 (TH +31 152 690 391	ne Netherlands)	
Name agency		Bureau Veritas Certi	fication	
Concerning		Bureau Veritas is an Certification (TIC)	organisation with expertise in	Testing, Inspection and
Link to website		www.bureauveritas.	<u>nl</u>	
telephone number		+31 (0)88 450 55 0	00	
Name agency		DNV GL Netherlands	3	
Concerning		DNV GL is a global quality assurance and risk management company providing classification, technical assurance, software and independent expert advisory services to the maritime, oil & gas, power and renewables industries.		
Link to website		www.dnvgl.nl		
telephone number		Rotterdam: +31 (0) Arnhem: +31 (0)26 Groningen:+31 50 7 Drachten: +31 (0)52	3 56 91 11 700 9700	
Name agency		Lloyd's Register		
Concerning		Classification compa	any	
Link to website		www.lloydsregister.nl		
telephone number		Marine: +31 (0)10 4 Energy: +31 (0)10 2		
AGENCIES TO CONTACT CON		NISTRY OF INFRASTRU	JCTURE AND WATER MANAGEI	VIENT
Name agency		Rijkswaterstaat		
Concerning		Executive agency of	the ministry of infrastructure a	and water management.
Link to website		www.rijkswaterstaat	.nl	
telephone number		+31 (0)8008002		
Name agency		Inspectie Leefomge	ving en Transport (ILT)	
Concerning		Supervising agency	of the ministry of infrastructure	e and water management
Link to website		www.ilent.nl		
telephone number		+31 (0)88 489 00 0	00	

Name agency	Staatstoezicht op de mijnen (SodM)
Concerning	Supervising agency for mineral and energy production in the Netherlands. They monitor the safety and environmental protection of mining activities, the gas network and wind at sea.
Link to website	www.sodm.nl
telephone number	+31 (0)70 379 8400
Name agency	Netherlands food and consumer product safety authority (NVWA)
Concerning	Agency of the Ministry of Economic Affairs that monitors the health of animals and plants, animal welfare and the safety of food and consumer products. In addition, the NVWA supervises compliance with nature legislation.
Link to website	www.nvwa.nl
telephone number	+31 (0)8 82 23 33 33 (cross border) 0900-03 88 (The Netherlands)
Name agency	Netherlands Enterprise Agency (RVO.nl)
Concerning	Netherlands Enterprise Agency (RVO.nl) stimulates entrepreneurs in sustainable, agricultural, innovative and international business. It helps entrepreneurs with funding, networking, know-how and compliance with laws and regulations.
Link to website	www.rvo.nl
telephone number	+31 70 379 80 00 (cross border) 088 042 42 42 (The Netherlands)

AGENCIES TO CONTACT CONCERNING MINISTRY OF ECONOMIC AFFAIRS AND CLIMATE POLICY

PERMITS AND EXEMPTIONS

MINERAL EXTRACTION	
Name permit	Earth removal permit
Isssuing authority	Rijkswaterstaat
Applies to	Extraction of minerals located in shallow water (less than 100 metres deep), such as the extraction of sand or shells.
Link to website	https://www.rijkswaterstaat.nl/water/wetten-regels-en-vergunningen/overige- wetten/ontgrondingenwet/index.aspx
Name permit	Mining permit
Isssuing authority	Directoraat-Generaal Energie, Telecom en Mededinging (ETM)
Applies to	Extraction of minerals from deep subsoil. This generally involves oil or gas, but it also includes rock salt and geothermal heat.
Link to website	https://www.rijksoverheid.nl/ministeries/ministerie-van-economische-zaken-en-klimaat
FISHERY	
Name permit	European fishing permit
Isssuing authority	Rijksdienst voor Ondernemend Nederland
Applies to	Fishing in the North Sea
Link to website	www.rvo.nl
DUMPING AT SEA	
Name permit	Waterpermit
Isssuing authority	Rijkswaterstaat
Applies to	Discharge of substances at the North Sea, such as cooling water or sewage water purification plant
Link to website	www.omgevingsloket.nl
INSTALLATIONS AT SEA	
Name permit	Waterpermit
Isssuing authority	Rijkswaterstaat
Applies to	Build or position 'installations' in, on, above, under or over the seabed of the North Sea. If such structures also fall under the Mining Act, then you only require a permit in accordance with the Mining Act.
Link to website	www.omgevingsloket.nl
NATURE2000 AREAS	
Name permit	Permit nature conservation act
Isssuing authority	Rijksdienst voor Ondernemend Nederland
Applies to	Activities in or in the vicinity of a Natura2000 area
Link to website	www.rvo.nl
FLORA AND FAUNA	
Name exemption	Exemption nature conservation act
Isssuing authority	Rijksdienst voor Ondernemend Nederland
Applies to	Activities that endanger protected animal species
Link to website	www.rvo.nl
WRECKS AND ARCHAEOLOGICAL OBJ	ECTS
Name permit	Monument permit
Isssuing authority	Rijksdienst voor het Cultureel Erfgoed
Applies to	Activities in the vicinity of shipwrecks and other man-made structures
Link to website	www.cultureelerfgoed.nl

DUTCH FINANCIAL INSTRUMENTS FOR BLUE GROWTH

TYPE OF FINANCIAL INSTRUMENT	Loans Dutch Trade and Investment Fund (DTIF)
DESCRIPTION	The Dutch Trade and Investment Fund (DTIF) offers loans, guarantees
	and export financing for Dutch companies that want to expand their
	businesses internationally. DTIF consists of two components:
	Investment and Exports.
WEBSITE	https://english.rvo.nl/subsidies-programmes/dutch-trade-and-
	investment-fund-dtif
TYPE OF FINANCIAL INSTRUMENT	Grant
NAME FINANCIAL INSTRUMENT	Subsidy scheme for demonstration projects, feasibility studies and
	investment preparation studies (DHI)
DESCRIPTION	The DHI scheme supports Dutch enterprises that want to invest in or
	execute a project in emerging markets and in developing countries.
WEBSITE	https://english.rvo.nl/subsidies-programmes/dhi
TYPE OF FINANCIAL INSTRUMENT	Tax concessions
NAME FINANCIAL INSTRUMENT	WBSO (R&D tax credit)
DESCRIPTION	With the WBSO, companies can lower the wage costs for research and
	development (R&D) and other R&D costs and expenditures, such as
	prototypes or research equipment. You can deduct the tax benefit in
	your tax return to the Netherlands Tax and Customs Administration.
WEBSITE	https://rvo.nl
TYPE OF FINANCIAL INSTRUMENT	Grant
NAME FINANCIAL INSTRUMENT	System integration at the North Sea (Systeemintegratie op de Noordzee)
DESCRIPTION	This subsidy scheme focuses on research and development of new
	components, products, tools and services that enable large quantitees
	of offshore windenergy to be integrated against low economic costs.
WEBSITE	https://rvo.nl
TYPE OF FINANCIAL INSTRUMENT	Grant
NAME FINANCIAL INSTRUMENT	Take off
DESCRIPTION	The science-wide financial instrument Take-off stimulates activity and
	entrepreneurship from Dutch knowledge institutions. Academic
	entrepreneurs, but also starters from higher professional education
	institutions and starters who use knowledge from institutions for
	Applied Research Organizations (TO2), can bring their innovative
	research results to the market.
WEBSITE	https://www.nwo.nl/onderzoek-en-resultaten/programmas/take-off
TYPE OF FINANCIAL INSTRUMENT	Grant
NAME FINANCIAL INSTRUMENT	MIT-R&D-samenwerkingsprojecten
DESCRIPTION	Grants are given for feasability projects of SME companies.
WEBSITE	https://www.rvo.nl/subsidies-regelingen/mit-rd-
	samenwerkingsprojecten
TYPE OF FINANCIAL INSTRUMENT	Loan
NAME FINANCIAL INSTRUMENT	Innovation Credit
DESCRIPTION	With the innovation credit SMEs are given financial support for risky
	innovation projects. In this way the government fills the gap in the
	capital market in a phase where entrepreneurs are busy getting things
	going, but have not yet generated returns.
WEBSITE	https://english.rvo.nl/subsidies-programmes/innovation-credit
TYPE OF FINANCIAL INSTRUMENT	Grant
NAME FINANCIAL INSTRUMENT	Green deal
DESCRIPTION	The Green Deal approach in the Netherlands is an accessible way for
	companies, other stakeholder organizations, local and regional
	government and interest groups to work with Central Government on
	green growth and social issues. The aim is to remove barriers to help
	sustainable initiatives get off the ground and to accelerate this process
WEDOLE	where possible.
WEBSITE	https://www.rvo.nl/onderwerpen/duurzaam-ondernemen/groene-
	economie/green-deal

TYPE OF FINANCIAL INSTRUMENT	Grant
NAME FINANCIAL INSTRUMENT	Renewable energy
DESCRIPTION	The Renewable Energy subsidy aims to achieve the energy objectives for less costs with innovative projects.
WEBSITE	https://www.rvo.nl/subsidies-regelingen/subsidies-energie-innovatie- topsector-energie/hernieuwbare-energie
TYPE OF FINANCIAL INSTRUMENT	Grant
NAME FINANCIAL INSTRUMENT	Subsidy scheme for Sustainable Shipbuilding (SDS)
DESCRIPTION	The Subsidy Scheme for Sustainable Shipbuilding (SDS) is intended for shipyards that want to carry out a shipbuilding innovation project that contributes to sustainable development.
WEBSITE	https://www.rvo.nl/subsidies-regelingen/subsidieregeling-duurzame- scheepsbouw-sds

Even though you might execute a part of your project in the Netherlands, or your project outcomes may benefit the Netherlands, there is no Dutch funding available for foreign organisations. Therefore, you will have to apply for European funding, or national funding in your own country.

SME ORIENTED INCUBATOR SUPPORT



young entrepreneurs are here!

NAME	YEAH!
MAIN TOPICS	Consultancy Business For Startups And SME's.
ADRESS	Herestraat 106
	9711 Lm Groningen
WEBSITE	Http://www.Yeah.Eu/



NAME	ldea voor duurzame energie
MAIN TOPICS	Incubator idea helps entrepreneurs to bring innovative ideas in the field of renewable energy to the market.
ADRESS	Bergerweg 200 – building c 1817 mn alkmaar
WEBSITE	Https://idea-nhn.nl/

YES! DELFT

NAME	YES!DELFT
MAIN TOPICS	A tech incubator for startups in the fields of blockchain, artificial intelligence, cleantech, medtech, aviation, robotics and complex technology.
ADRESS	Molengraaffsingel 12 2629 jd delft
WEBSITE	Https://www.yesdelft.com/

Entrance ENERGY TRANSITION CENTRE

NAME	ENTRANCE
MAIN TOPICS	EnTranCe is the hotspot of the Hanze University of applied sciences for businesses and innovations. It has the facilities, technologies and network to develop plans into the energy products and services the energy market demands.
ADRESS	Zernikelaan 17 9747 aa Groningen
WEBSITE	http://en-tran-ce.org/

NAME	ROBOVALLEY
MAIN TOPICS	Hub for robotic innovators, helps companies or start-ups that want to settle in delft.
ADRESS	Julianalaan 67a
	2628 bc delft
WEBSITE	Http://www.robovalley.com/

BUCCANEER DELFT accelerating energy & offshore

NAME	BUCCANEER DELFT
MAIN TOPICS	Buccaneer delft mobilizes the energy and offshore industry, facilitating high-impact partnerships to accelerate growth of scale-ups.
ADRESS	Paardenmarkt 1 2611 pa, delft
WEBSITE	Https://buccaneerdelft.com/

PORTXL

NAME	PORTXL
MAIN TOPICS	Entrepreneurship hub for innovation in logistic, maritime and energy
ADRESS	Marconistraat 16, 12th floor 3029 ak rotterdam
WEBSITE	Https://portxl.org/



NAME	GREEN DEAL
MAIN TOPICS	Stimulating sustainable innovation by the government, by aiding the implementation of sustainable initiatives.
ADRESS	/
WEBSITE	Https://www.greendeals.nl/

TESTING FACILITIES AND CO-WORKING SPACES



NAME	DMEC (DUTCH MARINE ENERGY CENTRE)
TYPE OF TECHNOLOGY	Tidal technology
FACILITIES	 Inshore test site at den oever, suitable for performance, installation, survival, o&m and demonstration tests;
	- offshore marsdiep test site, suitable for performance, installation, survival, o&m, and demonstration tests.
TRL LEVEL	6-9
WEBSITE	Https://www.dutchmarineenergy.com/

TUDelft

NAME	TU DELFT
TYPE OF TECHNOLOGY	Tidal technology Wave technology
FACILITIES	- Wave flume, simulating waves and stream. Suitable for performance, installation, survival, o&m and demonstration tests;
	 stream flume, simulating stream. Suitable for performance, installation, survival, o&m and demonstration tests;
	 stream tank, simulating steram. Suitable for performance, installation, survival, o&m, and demonstration tests.
TRL LEVEL	1-3
WEBSITE	Https://www.tudelft.nl/ocean-energy/



WAGENINGEN UNIVERSITY & RESEARCH

NAME	WAGENINGEN UNIVERSITY & RESEARCH
TYPE OF TECHNOLOGY	Tidal technology
FACILITIES	 Straight flume, simulating stream, suitable for performance and hydrodynamics tests of river simulations (sedimentation, dam prototypes); tilting flume, simulating stream, suitable for performance tests.
TRL LEVEL	1-3
WEBSITE	Https://www.wur.nl/



INAIVIE	nudESCHOOL ZEELAND
TYPE OF TECHNOLOGY	Tidal technology Wave technology
FACILITIES	- Wave basin, simulating waves and (tidal) streams. Suitable for proof of principle tests of dam systems (including turbines);

- stream flume, simulating (tidal) streams. Suitable for proof of principle tests of dam systems (including turbines).

TRL LEVEL	1-3
WEBSITE	Https://hz.nl/

Enabling Delta Life	
NAME	DELTARES
TYPE OF TECHNOLOGY	Tidal technology Wave technology
FACILITIES	- Atlantic basin, simulating waves and (tidal) currents. Suitable for performance and survival tests;
	- pacific basin, simulating waves, suitable for performance and survival tests;
	 delta basin, simulating waves and (tidal) currents. Suitable for performance and survival tests;
	 - intake and outfall basin (ios), simulating tidal range. Suitable for performance and survival tests;
	- delta flume, simulating waves. Suitable for performance and survival tests;
	 scheldt flume, simulating waves and (tidal) currents. Suitable for performance and survival tests.
TRL LEVEL	1-6
WEBSITE	Https://www.deltares.nl/en/



Deltares

NAME	MARIN
TYPE OF TECHNOLOGY	Tidal technology Wave technology Otec technology
FACILITIES	 Offshore basin, simulating waves, currents, wind. Suitable for performance and installation tests
	 deepwater towing tank, simulating tow tests. Suitable for performance, installation and survival tests
	 depressurised wave basin, simulating waves and low air pressures. Suitable for performance tests;
	- concept basin, simulating waves and wind, suitable for performance tests;
	- shallow water basin, simulating waves. Suitable for performance and installation tests;
	- cavitation tunnel, simulating low pressures. Suitable for cavitation observation.
TRL LEVEL	3-6
WEBSITE	Http://www.marin.nl/web/home.htm



NAME	TTC-GD
TYPE OF TECHNOLOGY	Tidal technology
FACILITIES	Inshore grevelingendam site, when completed, tidal technology center grevelingendam (ttc-gd) at the 'flakkeese spuisluis' in the grevelingendam will provide developers of tidal energy technologies with the means to test, certify and showcase their products in fully operational tidal contexts.
TRL LEVEL	4-8
WEBSITE	Https://www.bt-projects.com/portfolio-items/tidal-technology-center-grevelingendam/

NOZ	
NIOZ	
Tidal technology	
Wave technology	
Otec technology	
Salinity gradient technology	
Test bassin, simulating dynamic tank. Suitable for performance and component testing;	
Pressure tank, simulating high pressure. Suitable for performance, operation and component testing;	
1-9	
Https://www.nioz.nl/en	



Visserij-innovatiecentrum Zuidwest-Nederland

NAME	FISHERIES INNOVATION CENTER (VISSERIJ INNOVATIECENTRUM ZUID-WEST NEDERLAND)
TYPE OF TECHNOLOGY	Fishing techniques
FACILITIES	The fisheries innovation center supports projects that promote technical innovations and contribute to the sustainability of the fishing sector. In a test pool, gears and networks are tested in as realistic an environment as possible.
TRL LEVEL	1-9
WEBSITE	Https://visserij-innovatiecentrum.nl/

There are many well equipped testing facilities in The Netherlands. As a foreign SME, you might struggle though to find the right testing facility for your innovation. Therefore you might opt for a national advisor who can guide you.

LITERATURE LIST

- Rijksoverheid. (2019). De Nederlandse Maritieme Cluster Monitor 2019. Retrieved from <u>https://www.rijksoverheid.nl/documenten/rapporten/2019/10/01/de-nederlandse-maritieme-cluster</u>
- Ecorys. (2012). study on blue growth and maritime policy within the eu north sea region and the english channel. retrieved from <u>https://webgate.ec.europa.eu/maritimeforum/sites/maritimeforum/files/annex%20ii%20c%20-%20netherlands%202%20page%20country%20summary_0.pdf</u>
- Maritime delta. (2018). maritime delta monitor 2018. retrieved from <u>https://issuu.com/innovationquarter/docs/eindrapportage_maritime_delta_monit</u>
- Netherlands maritime technology. (2014). geen zee te hoog. retrieved from <u>https://maritimetechnology.nl/geen-zee-te-hoog-perspectieven-voor-het-noord-nederlandse-maritieme-cluster/</u>
- Port of den helder. (n.d.). retrieved december 19, 2018, from https://www.portofdenhelder.eu/nl/duurzaamheid-en-milieu
- European commission. (n.d.) retrieved december 19, 2018, from http://s3platform.jrc.ec.europa.eu/map

