Transport and installation of an offshore potable water supply pipeline for Vestmannaeyjar

PRE-QUALIFICATION DOCUMENTS

Document No. 06247 - P102 - 0201 **February 2025**

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1 INTRODUCTION

1.1 Vestmannaeyjar Potable Water Supply System

Vestmannaeyjabær, herein referred to as the Buyer, owns an offshore potable water pipeline which lies between Iceland and Vestmannaeyjar (Westman Islands). The pipeline is approximately 12,5 km long, located south of Iceland. The water supply system for Vestmannaeyjar (Westman Islands) is operated by HS Veitur hf., a company responsible for the sale and distribution of hot and cold water and distribution of electricity. The entire water supply system consists of water wells and pumping stations at the south coast of Iceland, the offshore potable water pipeline (8") from the south coast to Vestmannaeyjar and a pumping station, storage tank and distribution network in Vestmannaeyjar. The current, 8" potable water pipeline is heavily damaged, and the Buyer intends to install a new 8" offshore potable water pipeline.
This is a Pre-Qualification for Contractors who will take over FAS Kalundborg at National Oilwell Varco (NOV), Denmark I/S Site and transport the water pipeline to Iceland and install it from south cost of Iceland to Vestmannaeyjar.

1.2 Contractor's Services

NOV will hand over the potable pipeline (turntable to carousel) FAS Kalundborg at NOV's Site and the Contractor shall take over the pipeline from NOV's turntable to its own, transport it to Iceland and install it between south coast of Iceland to Vestmannaeyjar, including land connections on each shore. The process for transport and installation for the offshore potable water pipeline is further specified in the Bid Documents that will be issued with a Request for Proposals for Contractor's Services following Pre-Qualification of Applicants according to these Prequalification Documents.

This Pre-Qualification request is (within a given time limit) a quality- and financial ability based selection together with selection of the technical execution/capability of Contractors, with reference to Icelandic Procurement Act (Article 79 of Act No. 120/2016).

The current project time schedule is based on the following milestones:

- Issue of Prequalification Documents — 25th of February 2025
- Prequalification Documents submitted — 11th of March 2025
- Issue of Bid Documents — 8th of April 2025
- Bid submitted — 10 days from issue
- Award of Contract — May 2025
- Pick-up of the pipeline — No later than 1st of August 2026. The Contractor shall be prepared to pick-up the pipeline up to 2 weeks prior to the set date. The final pick-up date will be determined 11.06.2026 the latest.
- Transport and installation of the pipeline — No later than August 2026

1.3 Contractor's Pre-Qualification

These Pre-Qualification documents are available to Contractors, hereinafter called the Applicants, interested in bidding for this project. Interested Applicants shall duly submit an application including information requested in the said Pre-Qualification documents. The documents provided by the Applicants will serve as the basis for the selection of qualified Applicants. All submitted documents and information pertinent to the Pre-Qualification shall be in Icelandic or English.
This Pre-Qualification process does not obligate or bind the Buyer to issue a call for bid. The data contained in these documents are presented without any obligations or guarantee and only for information as regards to the project and nature of services intended to be carried out. The Buyer shall not be held responsible for any inaccuracy therein or contradiction to the contract documents to be issued later.
Any effort or expense by the Applicant's behalf in conjunction with the Pre-Qualification procedure shall be without cost or obligation to the Buyer.

Pre-Qualification applications will only be considered from Applicants who have the technical, financial, operational and administrative capacity to execute the actual services within the specified time limit. Applicants who do not have plausible reference list of similar projects, or the experience, personnel, equipment required or the necessary financial and administration capacity, will be disqualified.

After evaluating the submitted Pre-Qualification applications from Applicants, the Buyer intends to issue a call for bids to Qualified Contractors. The Buyer reserves the right to limit the number of Qualified Contractors to the maximum of 5. Furthermore, if the Buyer considers participation in the Pre-Qualification procedure insufficient, the right to issue a public call for bid is reserved.

2 TIME AND PLACE FOR RECEIPT OF PRE-QUALIFICATION APPLICATION

Application and queries according to this Pre-Qualification Document shall be submitted to:

utbod@verkis.is

The subject text when submitting the Application shall be:
Notice publication number by Ted EU – Submit Pre-Qualification

The subject text when submitting questions regarding the Pre-Qualification document or process shall be:
Notice publication number by Ted EU – Questions regarding Pre-Qualification

Only applications received by the Buyer before 12:00 UTC 11th of March 2025 will be considered valid.

3 GENERAL RULES AND DEFINITIONS

3.1 Confidentiality

All documents and related information submitted for the purpose of this Pre-Qualification process shall be treated as confidential. No commercial use of documents or related information will be permitted.
If an application is rejected or if Pre-Qualification is cancelled, all submitted documents will be returned to the Applicant or destroyed without delay.

3.2 Access to documentation / record

No Applicant/Qualified Contractor shall have access to any documentation/records pertaining to any other Applicant's application/qualification or to the submittals thereof.

3.3 Definitions

For the purposes of Pre-Qualification, the following definitions apply:

3.3.1 Technical and financial statements

Documents reflecting the financial status of an Applicant at the end of the financial year. Financial statements usually consist of the balance sheet, the profit and loss account, the statement of cash flow, the notes to the accounts and the accountant's report. Together with the financial statements a confirmation that the applicant has the technical ability, the necessary tools, and the capacity to execute and complete the work by the project's deadline. A reference list for same or similar work/project is beneficial for the Applicant.

3.3.2 Applicant

Physical person(s)/legal entity (ies), being capable of performing Contractor's Services and enter this process to obtain/retain a qualification approval.

3.3.3 Contractor

A Contractor which is responsible to deliver a professional requested service.

3.3.4 Legal representative

Physical person who, according to national legislation, represents the Applicant.

3.3.5 Buyer

For the purpose of these Pre-Qualification documents, the Buyer is:
Vestmannaeyjabær
Kirkjuvegur 50
900 Vestmannaeyjar
Iceland

3.3.6 Qualification

Procedure based on a set of rules leading to the formal assessment of an Applicant by the Buyer against set criteria, including administrative, legal, financial, human resources and technical skills i.e. as requested in the qualification documents presented by the Applicant.

3.3.7 Qualified Enterprise

A legal entity contractor that has been qualified by the Buyer.

3.3.8 Selection

Process where the Buyer selects Qualified Enterprises from a group of Applicants for this specific project/procurement.

3.3.9 Execution/installation

Execution includes all processes which enables the Contractor to complete requested services according to Contract documents, which has been agreed by the Buyer.

3.3.10 Assignment

The overall/total services provided by the Contractor.

4 ADMINISTRATIVE AND LEGAL IDENTIFICATION DATA

The Applicant shall provide following information:

1. Name of the enterprise for which qualification is sought.
2. Address of the head office.
3. Telephone, and e-mail address of the head office.
4. Legal status of the Applicant and year founded.
5. Professional or trade registration number.
6. Voluntary membership of professional or trade association(s) (non-mandatory information for qualification).
7. Information concerning the legal representative(s):
    a. Full name;
    b. Business address, telephone number, and e-mail;
    c. Position/title at the enterprise.

A short description of the Applicant's organization, and name(s) of technical and senior management, including directors, together with their duties and responsibilities.

5 ADMINISTRATIVE AND LEGAL ASSESSMENT

5.1 Criteria related to the Applicant

In order to be qualified, the Applicant shall comply with the following criteria:

a. Be enrolled in the professional or trade register, according to the legal provisions of the country (ies) in which the Applicant is established.
b. Not be the subject of national insolvency proceeding.
c. Not be bankrupt or in an analogous situation, arising from national insolvency proceeding.
d. Have fulfilled its obligations relating to the payment of taxes, and other official duties, according to the legal provisions of the country (ies) in which the Applicant is established/domiciled.
e. No legal proceedings in progress against Applicant which may affect capacity and ability to fulfil and perform contracts obligations.
f. Have a positive equity.
g. The Applicant shall have experience from similar projects of complexity and scale

5.2 Criteria related to the legal representative(s) of the Applicant

The legal representative(s) of the Applicant shall comply with the following criteria:
They are not guilty of serious misrepresentation in supplying the information and/or documentation required to be qualified.

5.3 Joint ventures

Joint venture Applicants shall submit complete and separate documentation for each Applicant, not only for the lead firm. It shall, however, be clearly established in the Pre-Qualification application, which Applicant will be the leading entity, as well as the expected participation and share of other members of the joint venture. Application received from joint ventures without lead firm with full, overall responsibility for the contract, will be rejected.

6 FINANCIAL CRITERIA FOR QUALIFICATION

6.1 General

Herein are the financial criteria specified for the Applicant's assessment as part of the qualification process, as well as the necessary documentation to be supplied by the Applicant.

6.2 Documentation

The Applicant shall submit the following financial documentation:

a. Financial Statements of the Applicant for the previous three fiscal years. Turnover from transport and installation of offshore pipelines shall be listed separately if applicable. The documentation shall be itemized and explained to allow financial assessment in accordance with clause 6.3 below.
b. In case of external financial resources, the financial statements of such guarantor(s) including verification of availability of such resources.
c. Major present or foreseen contractual commitments of the Applicant.
d. Information on key bank relationships of the Applicant.
e. Any other documents that may be relevant in describing the financial qualification of the Applicant.

6.3 Financial assessment

The financial capacity of Applicant will i.e. be determined from the enclosed statements of Appendix A and the documents provided as under clause 6.2 above. Various measurements of financial strength, including but not limited to net worth, D/E ratio, current ratio, quick ratio, interest cover ratio and cash from operations, may be applied to evaluate the Applicant’s financial qualification. Considerations will furthermore be given to the financial strength of the Applicant in view of his present commitments.

External resources of any physical person/legal entity, that provides unconditional legal liability for the financial obligations of the Applicant, may be taken into consideration to meet acceptable requirements. The financial resources shall verifiably be available for the purpose of qualification.

Any Applicant, whose financial status is inadequate or inadequately supported in the opinion of the Buyer, will be disqualified.

7 TECHNICAL QUALIFICATION

7.1 General

Herein are specified the qualification by type of performance, technical ability and size of contracts performed. It also specifies documentation to be supplied by the Applicant.

7.2 Documentation

7.2.1 Reference

The Applicant shall provide a reference list containing main technical details of previously transported and installed offshore pipelines by the Applicant, completed or in current execution during the last ten years, incl. names and addresses of the respective Buyers.

The Applicant authorizes the Buyer, by submitting his application, to directly request performance information from the references.

7.2.2 Certificates

The Applicant shall provide certificate that proves acceptance, origin and CE-marking where applicable of all equipment on-board, during load-out and installation which the Applicant intends to use for the transport and installation of the pipeline. Certificates, laws and regulations regarding the vessel, the transport and employees shall be according to international and Icelandic laws.

7.2.3 Technical Assessment

The technical assessment will take into consideration the references demonstrating that the Applicant has properly completed the executing of service being i.e. technically comparable with the Contract for which qualification is sought.

To be qualified, the Applicant shall confirm the technical capability of the Applicant. The technical project data is summarised in Section 8. The Applicant shall have a carousel and cable highway which fits the size, length, weight and bending radius of the pipeline as defined in Section 8. The Applicant shall provide necessary documentation to confirm the technical capability of the Applicant, refer to Appendix B2.

In Appendix B2 the Applicants are requested to fill in the weather limitation for the operations to be performed in the current project which the pre-qualification is sought. The time-schedule of the project is of high importance. The Applicants are valuated based on the capability of executing the scope of work, i.e. pick-up of the pipe on the set date, and installation no later than in August 2026.

8 TECHNICAL PROJECT DATA

8.1 Scope of Supply:

Transport and installation of 12,5 km long continuous offshore potable water pipeline from NOV Flexibles. According to the Manufacturer the pipe must be fluid filled at all times, i.e. during transport, load-out and installation. The end flanges on the pipeline will include pad-eye for handling and installation. The Manufacturer estimates 101 kN tension on the pipe during installation. The total length of the pipeline shall be delivered and installed in one piece/in one go, i.e. it is under no circumstances allowed to cut the pipe in smaller sections.

The Contractor shall furthermore deliver accessories (spare bolts and gaskets), spare parts and repair kits necessary for the installation. Typical accessories pertinent to a flexible pipe system will be suitably packed, by the Manufacturer, in wooden boxes for sea freight and treated with approved measures and certified according to ISPM 15 (International standard for phytosanitary measures). Where items are not suitable to be boxed, they will be packed on ISPM 15 certified pallets or skids.

8.1.1 Summary of significant project parameters

Length of the pipeline	12,5 km
Outer diameter of the pipeline	262 mm
Crushing controlled chute radius at estimated installation tension	5 m (to be confirmed)
MBR controlled chute radius	2,00 m
Maximum installation depth	100 m

Weight in air – empty	68,1 kg/m
Weight in air – Liquid-filled	100,5 kg/m
Weight in Sea – empty	12,4 kg/m
Weight in Sea – Liquid-filled	44,8 kg/m
Estimated tension during installation	101 kN

The pipeline shall be connected to two land based terminal points. One end is connected to existing steel pipe and the other end is connected to PEH pipe. The pipeline will be supplied with two 8“ ASME Class 600 fixed flanges. The pipeline will be delivered with one flange attached however the other one will be connected to the pipe on shore during installation of the pipeline.
One terminal point is at Bakkafjara, on mainland, ca 270 m from a sandy shore prone to rough seas connecting to steel pipe. The other terminal point is at Skansfjara, on Vestmannaeyjar, the connection to PEH pipe is about 40 m from the sandy shore. The pipeline will cross existing pipelines and cables on the seabed.

8.2 Load-out on Manufacturer Site

The quayside of the manufacturing facility, which is located in Kalundborg, Denmark is shown in **Figure 8-1** below including details of each side. There are 3 different quaysides to the manufacturing facility for load-out of the pipe, the first two are located on the Manufacturer‘s premises and the third is at Kalundborg Harbour.

1. South Quay
2. East Quay
3. North Quay (Kalundborg Harbour)

More detailed diagrams, maps of the quayside layout, harbour water depths and vessel approach can be provided upon request for vessel navigation and mooring input.
During load-out on NOV premises, the Contractor shall follow NOV requirements, i.e. safety, guidelines etc.

Figure 8-1 Quayside for load-out of the pipe at Manufacturer site.

The pipeline will be handed over to the Contractor at the Manufacturer's harbour in Kalundborg. The pipeline will be transpooled from the manufacturing turntable and onto a carousel on the nominated installation vessel or barge with sufficient storage space.

A standard load-out operation from manufacturing turntable to carousel on a vessel contains following:

- Establishment of a load-out route approx. 150 m from the turntable
- A mounted chute from quayside toward vessel with water lubrication
- Use of 10Te 2 track tensioner
- Floodlights along the route
- One tent for inspection
- Visual inspection of the pipe during the load-out process
- Transport of 2 E/F per pipe on the quayside
- Transport of project related boxes toward the quayside
- Provided Items (CPI)
- Preparation of the quay

A standard wooden box load-out from manufacturing site to vessel contains the following:

- Quay preparation
- Allocation of the box to a suitable position for the crane used
- Transport of project-related boxes to the quayside
- Inclusion under Kalundborg Port Facility Security Plan to ISPS rules
- Offshore lifting beam available on request

8.3 Installation of the pipe

8.3.1 Requirement from the Manufacturer

The installation shall be in accordance with the guidelines outlined in the Installation Limitation document provided by the Manufacturer. One representative from the Manufacturer will be present during the installation of the pipe to observe the installation is carried out in accordance with the guidelines from the Manufacturer. The Applicant shall provide accommodation for the NOV's representative during the installation.

8.3.2 Weather and Sea conditions on-site

Veðurvaktin ehf. have summarized data about the weather and wave conditions between the south coast of Iceland to Vestmannaeyjar. The main results from Veðurvaktin's analysis are summarised in the following sections in order to give an indication of the conditions on the installation site at the time of installation. A preliminary general layout of the pipe route, including longitudinal section of the seabed is shown in Annex C.1.

8.3.2.1 Weather conditions

A weather data from Veðurvaktin's summary is shown in Annex C2 and C3. According to the analysis done be Veðurvaktin ehf the most frequent weather and sea conditions between the south coast of Iceland and Vestmannaeyjar during the summer months are:

1. Prevailing East and South-East wind direction, often gusty, with a wave height of 1,0 – 2,0 m.
2. North-East wind direction sheltered from Eyjafjallajökull, light winds and calm sea or minor undertow.
3. South or South-West wind direction, rather light winds and foggy, sometimes undertows.
4. West or North-West wind direction, breeze and wind generated waves, sometimes undertows.

The ratio where the wind velocity in East and South-East direction was over 5 m/s was conducted for July, August and September. Furthermore, the ratio of wind velocity over 12 m/s in all directions was conducted. The summary is shown in Table 8-1.

Table 8-1 Ratio of wind velocity from July - September

	Wind direction: East/South-East, Wind velocity > 5 m/s	Wind direction: Any wind velocity > 12 m/s
July	5,8 %	0,17 %
August	7,6 %	0,55 %
September	8,8 %	2,36 %

The frequency of wind velocity at 15 m/s or higher is well below 1 % in July and August but occurs at least twice as often in September.

8.3.2.2 Waves and sea conditions

A wave rose diagrams for July, August and September showing the distribution of the waves from the buoy of Bakkafjara from Veðurvaktin's summary are shown in Annex C4. Graphs showing the frequency of significant wave heights are furthermore shown in Annex C4. Significant waves between 0,6 m and 1,2 m occurs 50% of the time during the summer months. Frequency of waves, 3,0 m or higher, is below 1% in July and August. The frequency increases significantly in September.

9 GENERAL CONTRACT INFORMATION

9.1 Contract form

A contract agreement will be made between the successful bidder for the services and the Buyer.

9.2 Laws and regulations

The Contract shall in all respects be governed by and interpreted in accordance with the laws of Iceland and if a dispute arises, the parties must aim to seek a settlement, but if it is not resolved within 30 days, the dispute may be submitted to the Southern District Court of Iceland (Héraðsdómur Suðurlands).

9.3 Language

The Contract shall be conducted in English throughout, including all written correspondence, drawings and documentation.

9.4 Labour

Working permits is required for foreign labour with citizenship outside countries of the European Economic Area (EEA). Such permits must be acquired by the Contractor in accordance with Icelandic law and regulations.

All employees working on the transport and installation hold appropriate qualification and valid certificates and/or craftsman license for their work performed.

9.5 Child labour

Contractor represents and warrants that Contractor, its subcontractors comply with applicable labour and employment laws regarding, and prohibit, any form of child labour or other exploitation of children in the work performed, consistent with provisions of the International Labour Organization's (ILO) Minimum Age Convention (No. 138), 1973 and the Convention on the Rights of the Child, including Article 32 thereof, which, inter alia, requires that a child shall be protected from performing any work that is likely to be hazardous or to interfere with the child's education, or to be harmful to the child's health or physical, mental, spiritual, moral, or social development.

APPENDICES

Appendix A: Application for qualification

(1) Name of the Applicant:_____

(2) Head office address :_____
Telephone no :_____ _____e-mail:_____

(3) A short description of the Applicant's organisation and the name of the technical and senior management, including directors, together with their duties and responsibilities.

(4) APPLICATION DOCUMENTS (appended):

Contents	Appendices	Nº of pages
Legal	A1	_____
Financial	A2	_____
Technical	A3	_____
Short description of Applicant's organisation		

_____ _____

(5) REPRESENTATIVE OF THE APPLICANT FOR THE APPLICATION PROCEDURE:

Name: _____
Business address: _____
Telephone no:_____ _____e-mail:_____
Relationship with the Applicant :_____

I confirm the authenticity of the documents enclosed and the given information in this form and the Appendices is true and accurate. I declare that I have the power to commit the Applicant and enclose my authorisation to do so.

Place: _____ Date: _____
Day/month/year

Signature: _____

Appendix A1: Documentation concerning legal status

(1) Name of the Applicant : _____
(2) Legal status : _____
(3) Date of foundation (established) :_____
(4) Professional/trade/company registration number (if applicable):_____
(5) National VAT registration / fiscal number (if applicable): _____
(6) Legal representative(s)[1]:
Name: _____
Business address: _____
Telephone no:_____ _____ e-mail:_____
Relationship with the Applicant: _____

(7) Mandatory Appendices:
Copy or extract of the professional, trade or company register.

National authority document stating that the Applicant is not bankrupt nor subject to national insolvency proceeding.

National tax administration document stating compliance with the payment of taxes.[2]Declaration by the legal representative(s) that he (they) has (have) not been convicted in the last five years of an offence concerning professional conduct by a judgement as specified in the applicable criteria.

(8) Non-mandatory Appendices:
Voluntary membership of professional or trade association(s) _____

_____
Name of the association - address

_____
Name of the association - address

[1] Where necessary, additional list of persons shall be attached to this form.

[2] If the Applicant's home country/domicile does not issue this certificate, it can be replaced by a declaration on oath or, in countries where a declaration on oath is not required, by a solemn declaration made by the legal representative before a judicial or administrative authority, notary, or a competent professional or trade body.

Appendix A2: Documentation concerning financial criteria

(1) Name of the Applicant: _____

(2) Appended with this enclosure are:

Financial Statements of the Applicant for the previous three years

Financial Statements of guarantor(s) if applicable.

Documentation on major present and future commitments.

Information on key bank relationship of the Applicant.

Other relevant financial documents.

Appendix A3: Documentation concerning technical criteria

(1) Name of the Applicant : _____

(2) Appended with this enclosure are the following documents on transport and installation of an offshore pipelines completed or in execution last fifteen years:

Annex No	Project's name
B1	----------
B2	----------
B3	----------
B4	----------
B5	----------
B6	----------
B7	----------
B8	----------
B9	----------
B10	----------
B11	----------
B12	----------
B13	----------
B14	----------
B15	----------

Appendix B1: Form for project references

(Only one project per sheet, Appendix B1, B2, B3 etc)
Project name: ……..
Project location: ……..
Country. ……..
Owner's name: ……..
and address: ……..
……..
Contact person, name: ……..
telephone: ……., e-mail……

Was the applying enterprise employed by the
☐Owner or ☐General Contractor (Tick appropriate box)

If the employer was a General Contractor:
General Contractor's name[1]: ……..
and address: ……..
……..
Contact person, name: ……..
telephone: ……., e-mail……

Contract value: Owner ……..
General Contractor ……..

Starting date(s): ..... Completion date (s): .....

General project features:

Type of pipeline(s)……

Length of pipeline: ……

Weight of pipeline……

Location of installation ……

Maximum laying depth:……..

Other features:
……..
……..
Letter of acceptance / Declaration of completion / Attestation by the Buyer of satisfactory execution.
(if not attached to this form the Buyer may directly request these documents from the Buyer)

Declaration by the Applicant:

Name:.....Signature :.....Date and location :.....

Appendix B2: Weather Limitations

Please provide documentation of the Applicant's installation vessel. Including but not limited to:

1. Turntable capacity, weight: _____ tons
2. Turntable capacity in length of pipe:_____ m
3. Turntable dimensions: _____
4. Tensioner: _____ kN
5. Cable highway:_____ m

Please fill in the table below the weather limitations for the operations to be performed in the current project which the pre-qualification is sought.

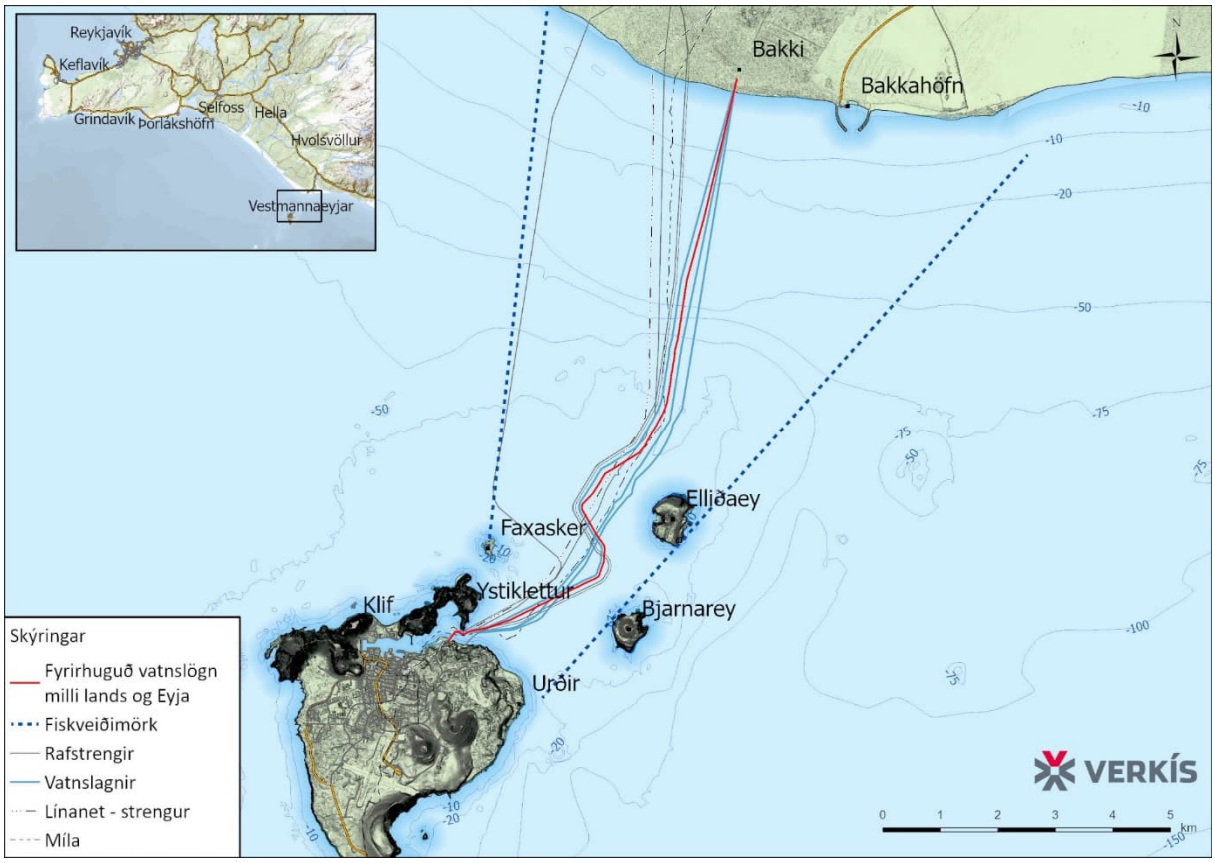
Table B-1 Weather limitations for different operations within the scope of the project

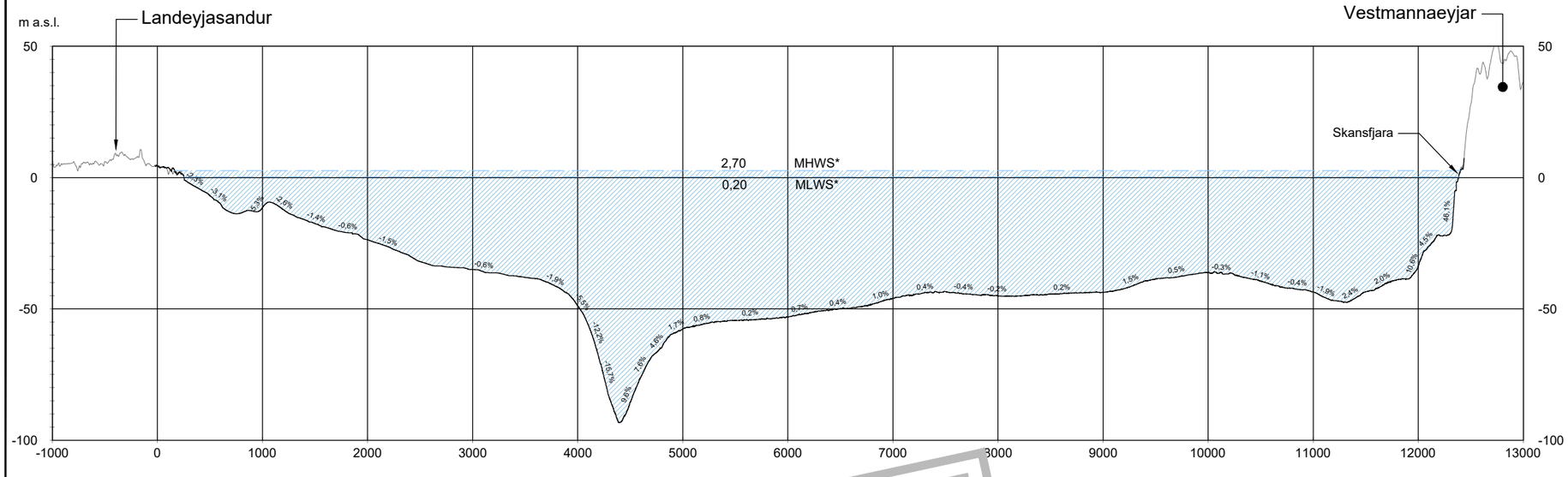
	Load-out from Manufacturing Site	Transport / Transit to work site	Installation Operations	Shore end landing operations
Wind				
Waves				
Current				
Swell				
Visibility				

Appendix C: Location, wind and wave data from the installation site

Appendix C1: Map and Draft of the General Layout, Longitudinal Section and Coordinates of the Pipe Route

The red line on the figure shows the location of the new offshore pipeline, NSL4.





NOTES:
Pipeline profile length between stations 0 - 12415 is measured 12438 m

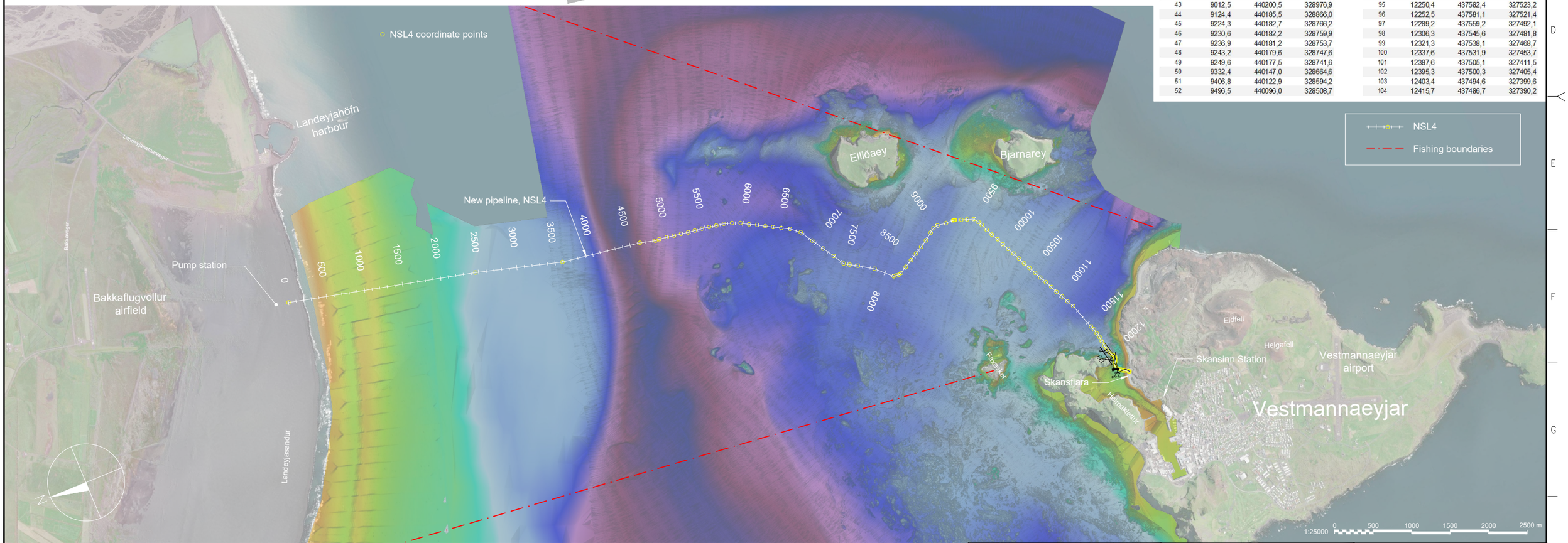
DRAFT

Aerial photographs: World Imagery
Multibeam map of seabed: Icelandic Coast Guard - Hydrographic Department

Datum ISN93 / Height system on land ISH2004
*Icelandic Coast Guard - Hydrographic Department Height system

NSL4 coordinates ISN93

Point	Station	Easting	Northing
1	0,0	442496,7	337145,4
2	2456,8	441928,8	334755,1
3	3595,7	441624,7	333657,5
4	4632,0	441468,1	332633,2
5	4833,9	441416,8	332437,9
6	4888,6	441415,0	332383,2
7	4989,3	441402,4	332283,3
8	5084,7	441385,5	332189,4
9	5178,9	441371,2	332096,3
10	5271,4	441354,1	332005,4
11	5362,6	441343,4	331914,8
12	5458,4	441329,8	331820,0
13	5554,9	441314,3	331724,7
14	5649,3	441296,0	331632,2
15	5749,1	441280,0	331533,7
16	5857,5	441246,6	331430,6
17	5967,9	441205,0	331328,2
18	6079,1	441148,6	331232,4
19	6183,6	441100,8	331139,5
20	6291,9	441044,0	331047,3
21	6394,5	440996,4	330956,5
22	6500,7	440943,1	330864,5
23	6613,5	440890,7	330764,6
24	6759,6	440796,4	330653,1
25	6944,4	440640,3	330554,0
26	7118,7	440491,0	330464,1
27	7286,6	440350,0	330373,0
28	7449,1	440208,3	330293,5
29	7530,5	440163,8	330225,4
30	7635,2	440113,1	330133,7
31	7856,6	439993,3	329947,5
32	8122,6	439808,4	329756,3
33	8159,1	439803,8	329720,2
34	8195,1	439800,6	329684,3
35	8228,6	439810,2	329652,2
36	8330,3	439860,3	329563,7
37	8440,1	439916,7	329469,5
38	8548,1	439969,2	329375,2
39	8655,6	440022,8	329281,9
40	8762,3	440077,7	329190,4
41	8877,7	440146,3	329097,6
42	8945,7	440185,5	329042,0
43	9012,5	440200,5	328976,9
44	9124,4	440185,5	328866,0
45	9224,3	440182,7	328766,2
46	9230,6	440182,2	328759,9
47	9236,9	440181,2	328753,7
48	9243,2	440179,6	328747,6
49	9249,6	440177,5	328741,6
50	9332,4	440147,0	328664,6
51	9406,8	440122,9	328594,2
52	9496,5	440096,0	328508,7
53	9565,3	440040,0	328468,6
54	9625,5	439984,6	328445,1
55	9715,7	439901,6	328409,9
56	9805,7	439820,1	328371,7
57	9902,8	439735,2	328324,5
58	9995,2	439650,1	328288,5
59	10087,3	439567,4	328247,9
60	10180,4	439483,8	328207,0
61	10276,1	439398,6	328163,4
62	10367,2	439314,7	328127,8
63	10459,8	439232,3	328085,6
64	10555,5	439147,1	328042,0
65	10646,5	439064,0	328005,0
66	10741,8	438980,7	327958,7
67	10837,5	438894,8	327916,6
68	10928,5	438811,6	327879,6
69	11023,3	438728,0	327834,9
70	11115,8	438644,2	327795,8
71	11209,4	438561,9	327751,2
72	11563,8	438225,6	327639,4
73	11619,3	438174,6	327617,4
74	11679,8	438115,5	327604,6
75	11741,5	438055,6	327589,5
76	11803,2	437994,2	327583,2
77	11867,7	437930,8	327571,6
78	11923,2	437876,5	327559,9
79	11987,0	437815,7	327541,0
80	12013,0	437791,3	327531,7
81	12037,9	437773,5	327514,3
82	12056,4	437757,5	327505,2
83	12068,2	437746,0	327502,2
84	12089,0	437725,4	327504,9
85	12112,4	437703,0	327511,7
86	12134,6	437683,8	327522,8
87	12138,7	437680,6	327525,3
88	12158,9	437664,6	327537,7
89	12160,4	437663,6	327538,8
90	12176,3	437649,8	327546,9
91	12202,9	437623,3	327545,8
92	12210,7	437615,6	327544,8
93	12216,4	437611,2	327541,3
94	12235,1	437594,8	327532,1
95	12250,4	437582,4	327523,2
96	12252,5	437581,1	327521,4
97	12289,2	437559,2	327492,1
98	12306,3	437545,6	327481,8
99	12321,3	437538,1	327468,7
100	12337,6	437531,9	327453,7
101	12387,6	437505,1	327411,5
102	12395,3	437500,3	327405,4
103	12403,4	437494,6	327399,6
104	12415,7	437486,7	327390,2



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APPROVED:

REV DATE ISSUE DES

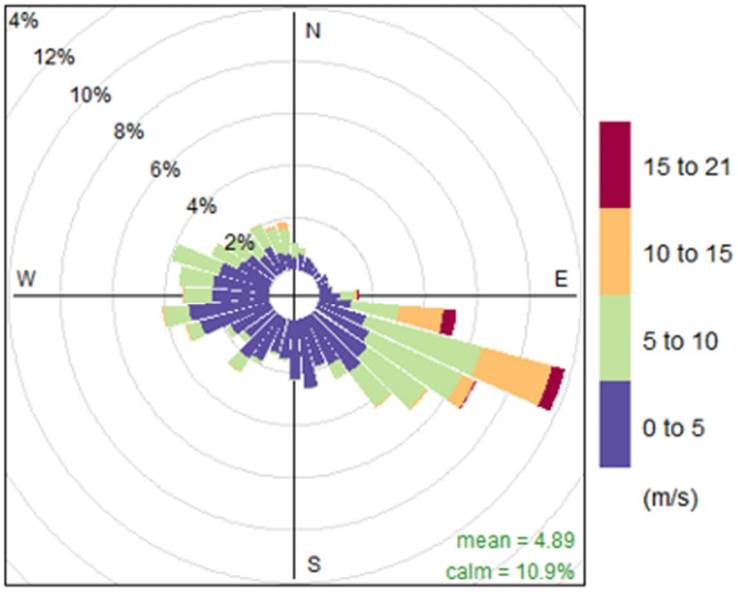
Vestmannaeyjar Water Supply Pipeline
Offshore Potable Water Pipeline, NSL4
NSL4
General Layout, Longitudinal Section and Coordinates

PROJECT 06247 DRAWING M20.04.003

V:\06\06247\teikn\+M\M20.04.001-004.dwg

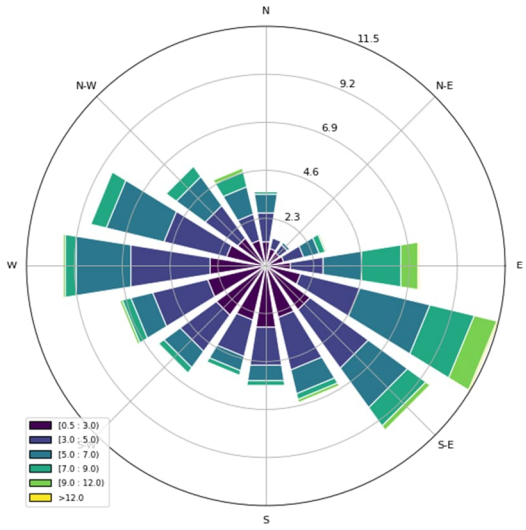
Appendix C2: Windrose at weather station Nýja Hraun

Windrose at weather station Nýja Hraun for July 2015-2019 and 2021-2023. Figure is from the analysis report made by Veðurvaktin ehf.

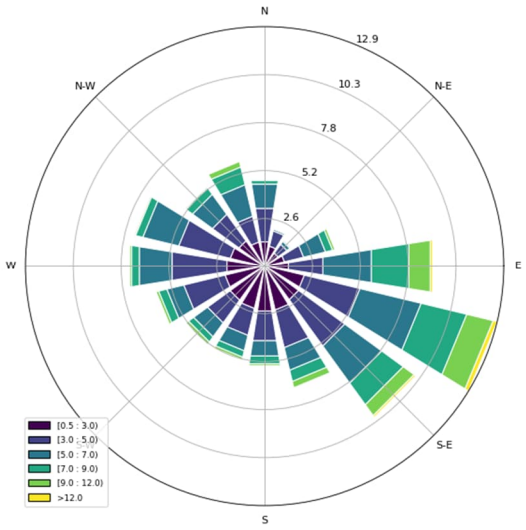


Appendix C3: Windrose and wind velocity in Eyjasund

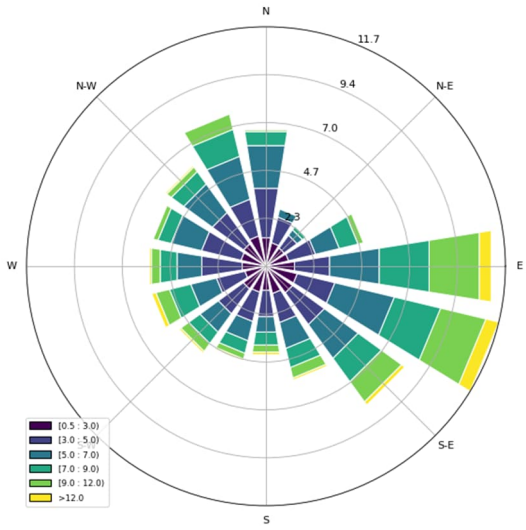
Figures are from the analysis report made by Veðurvaktin ehf.



Windrose for July 1946-2023

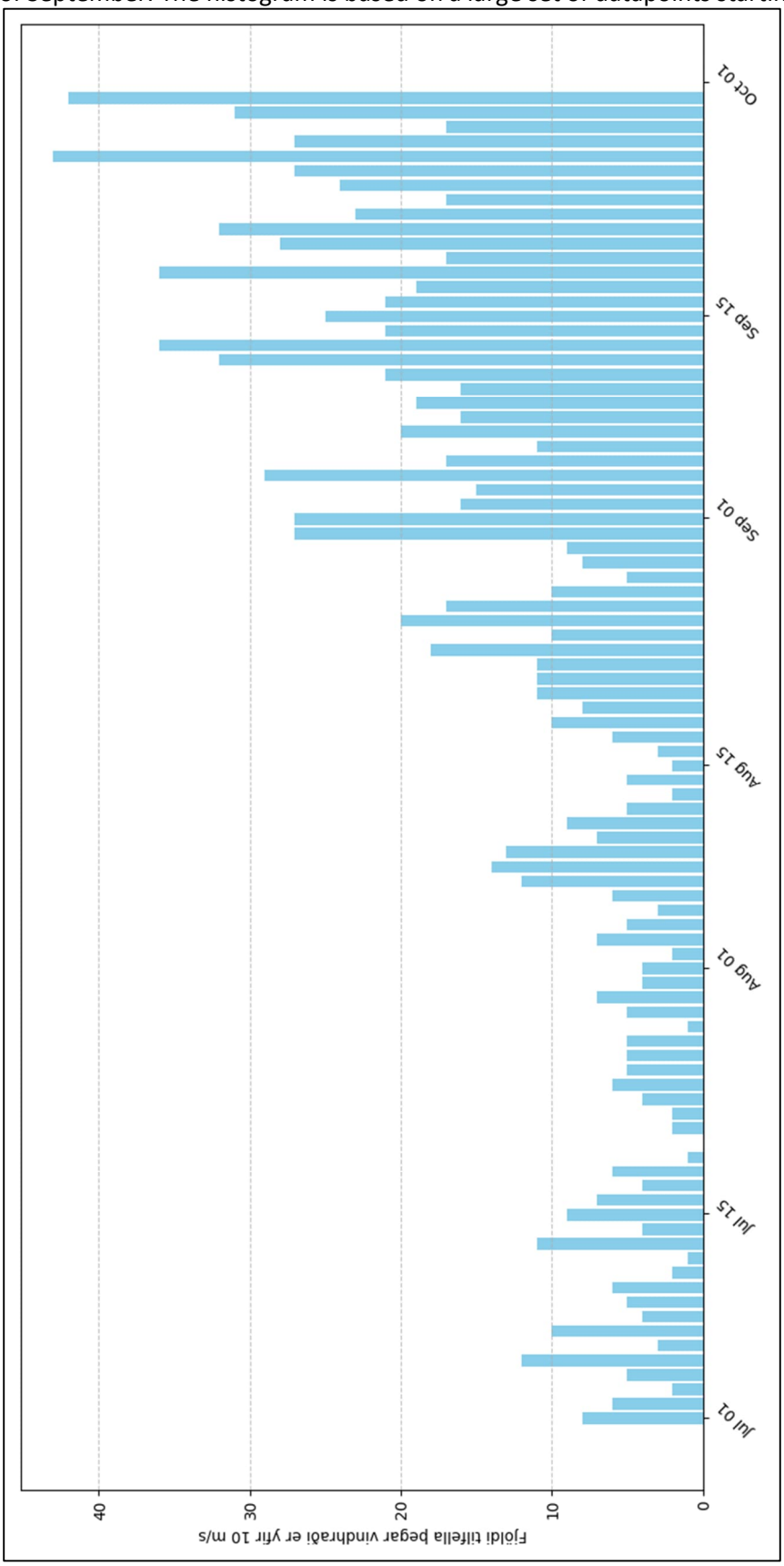


Windrose for August 1946-2023



Windrose for September 1946-2023

The figure shows number of cases where wind speed was over 10 m/s each day from 1st of July to 30th of September. The histogram is based on a large set of datapoints starting from 1945.



Appendix C4: Wave rose and wind velocity in Eyjasund

Wave roses for July, August and September for the years 2016 - 2023 based on data from the buoy at Bakkafjara are shown in Figure C-1. The frequency of the significant wave heights is shown in Figure C-2. Figures are from the analysis report made by Veðurvaktin ehf.

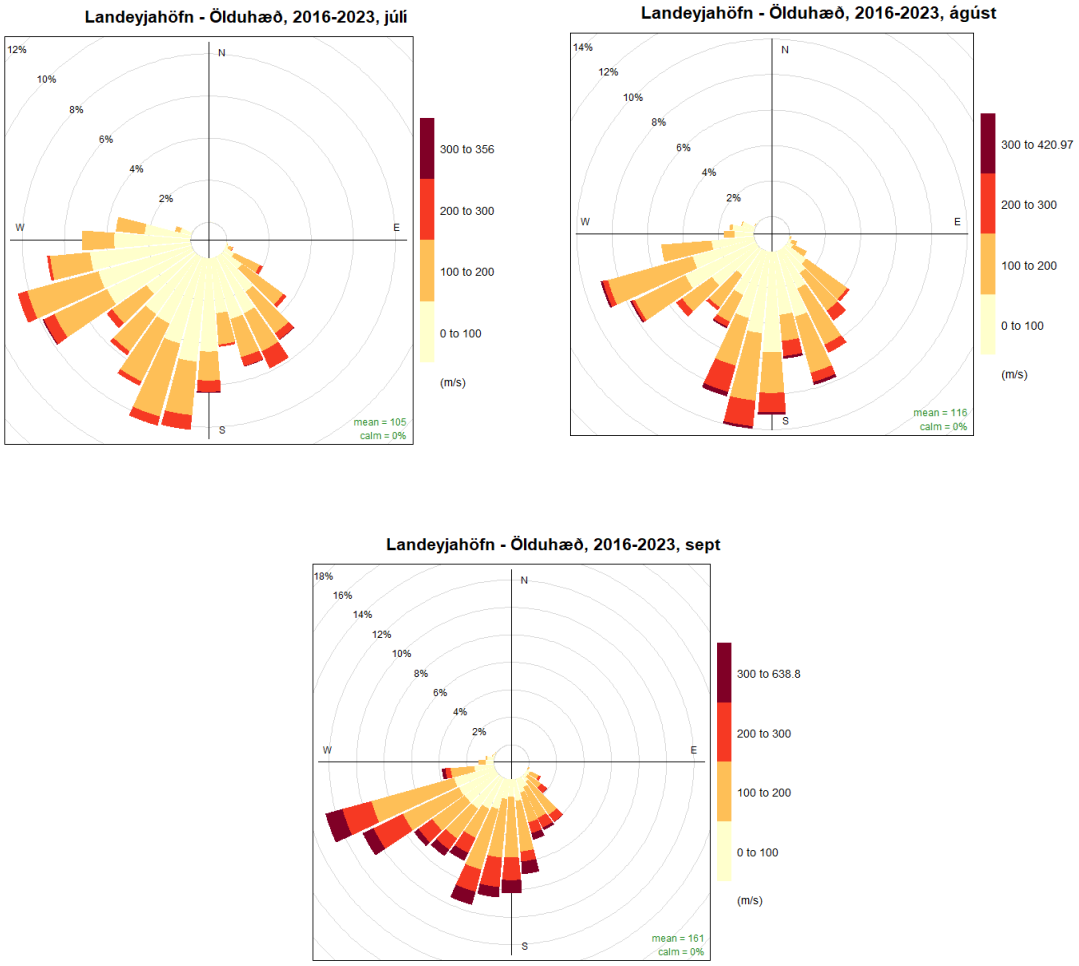


Figure C-1 Wave roses from buoy at Bakkafjara (*ölduhæð = wave height*). Wave rose located in the upper left corner: July 2016-2023. Wave rose located in the upper right corner: August 2016-2023. Wave rose located centrally: September 2016-2023.

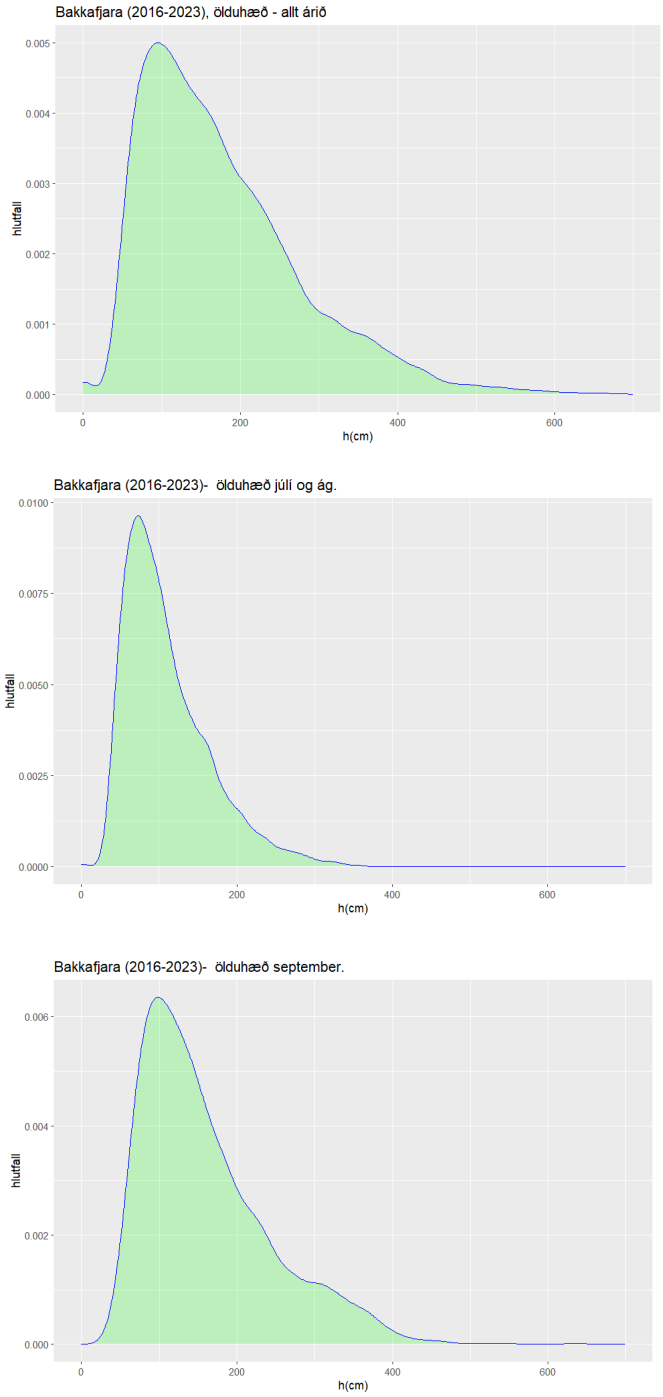


Figure C-1 Frequency of significant wave heights (ölduhæð = wave height). Graph at top: Wave heights during the whole year, 2016-2023. Graph in the middle: Wave heights in July and August, 2016-2023. Graph at the bottom: Wave heights in September.