



Páll Marvin Jónsson

ÖC founders



ÖC STAFF



- Páll Marvin Jónsson - *Director*
 - pmj@olfuscluster.is



- Kolbrún Hrafnkelsdóttir -*Project leader Green Industry Park*
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ÖC board of directors - our policymakers/mentors

- Áshildur Bragadóttir
 - *Innovation and Development Manager, Lbhí*
- Unnur Brá Konráðsdóttir
 - *Ministry of the Environment, Climate and Energy*
- Elliði Vignisson
 - *Mayor, Ölfus*
- Grétar Ingi Erlendsson
 - *Marketing manager, Black Beach Tours*
 - *Chairman of the town council of Ölfus*
- Hafsteinn Helgason
 - *Director of Research and Development, Efla*
- Jóhannes Gíslason
 - *Head of Sales and Marketing, GeoSalmo ehf.*
- Jens Garðar Helgasons
 - *Executive Director Laxa ehf.*



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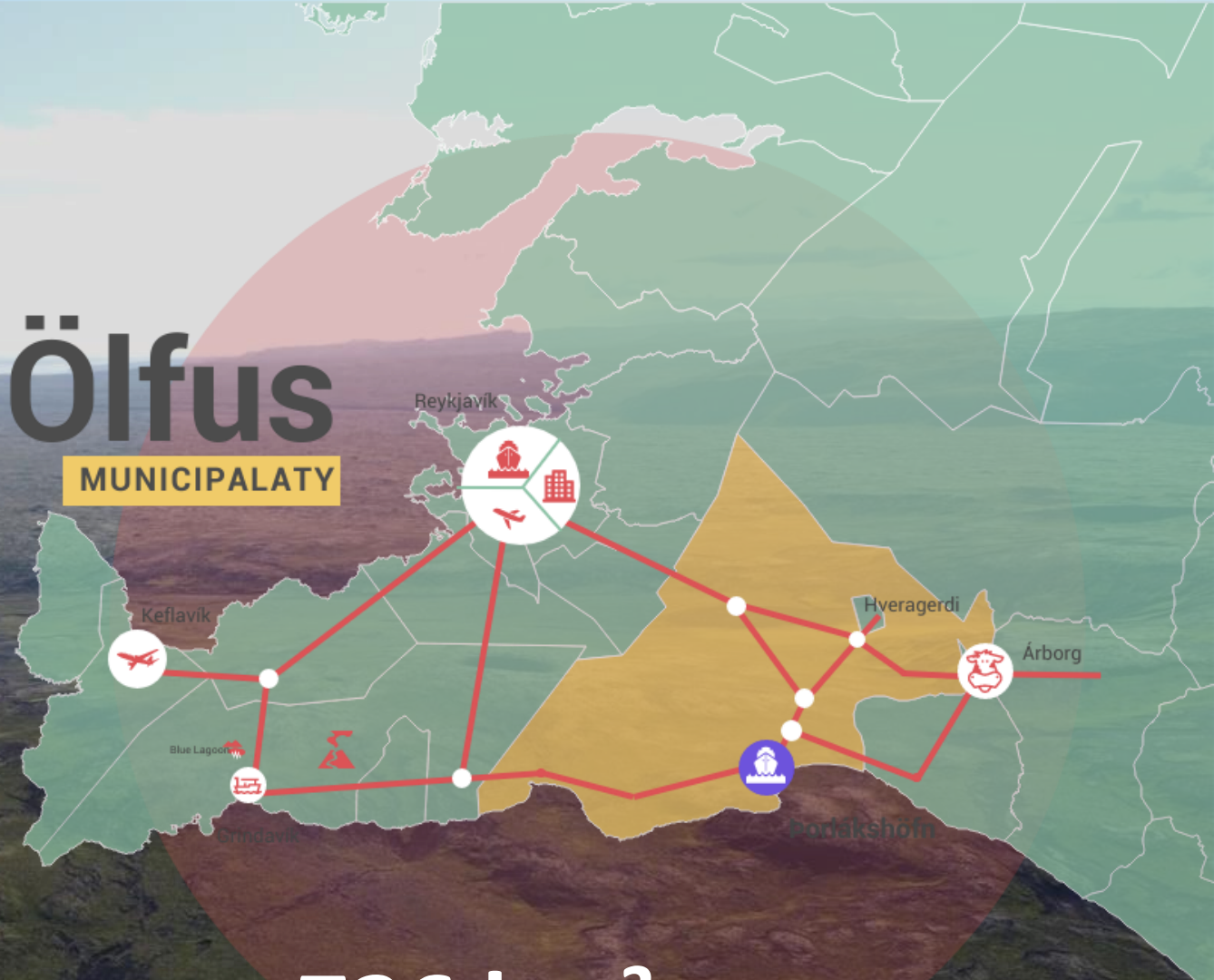




Reykjavík main capital area, Keflavík airport, Grindavík, Hveragerði and Árborg

Ölfus

MUNICIPALATY



736 km²
Population 2725

6-7% increase in 2022 and 2023

GREEN INDUSTRIAL PARK

the aim is to eliminate waste and pollution, circulate products and materials (at their highest value), and regenerate nature



130 ha

160 ha

290 ha

GeoSalmo

ÞÓR Landeiddisstöð

First Water



Þorlákshafnarhlína I

Selfosshlína III

Tengivirkni Þorlákshöfn

Vatnsból

Golfskáli

Hotel Resort

GRÆNIR IÐNGARÐAR

GIP-Ölfus

Within Ölfus general plan a 579 hectare of land dedicated to Green Industrial Park.

Focus on sustainability and circular economy pathways.

The aim is to create a community of businesses seeking enhanced environmental and economical performances through collaboration in managing resources and waste issues.



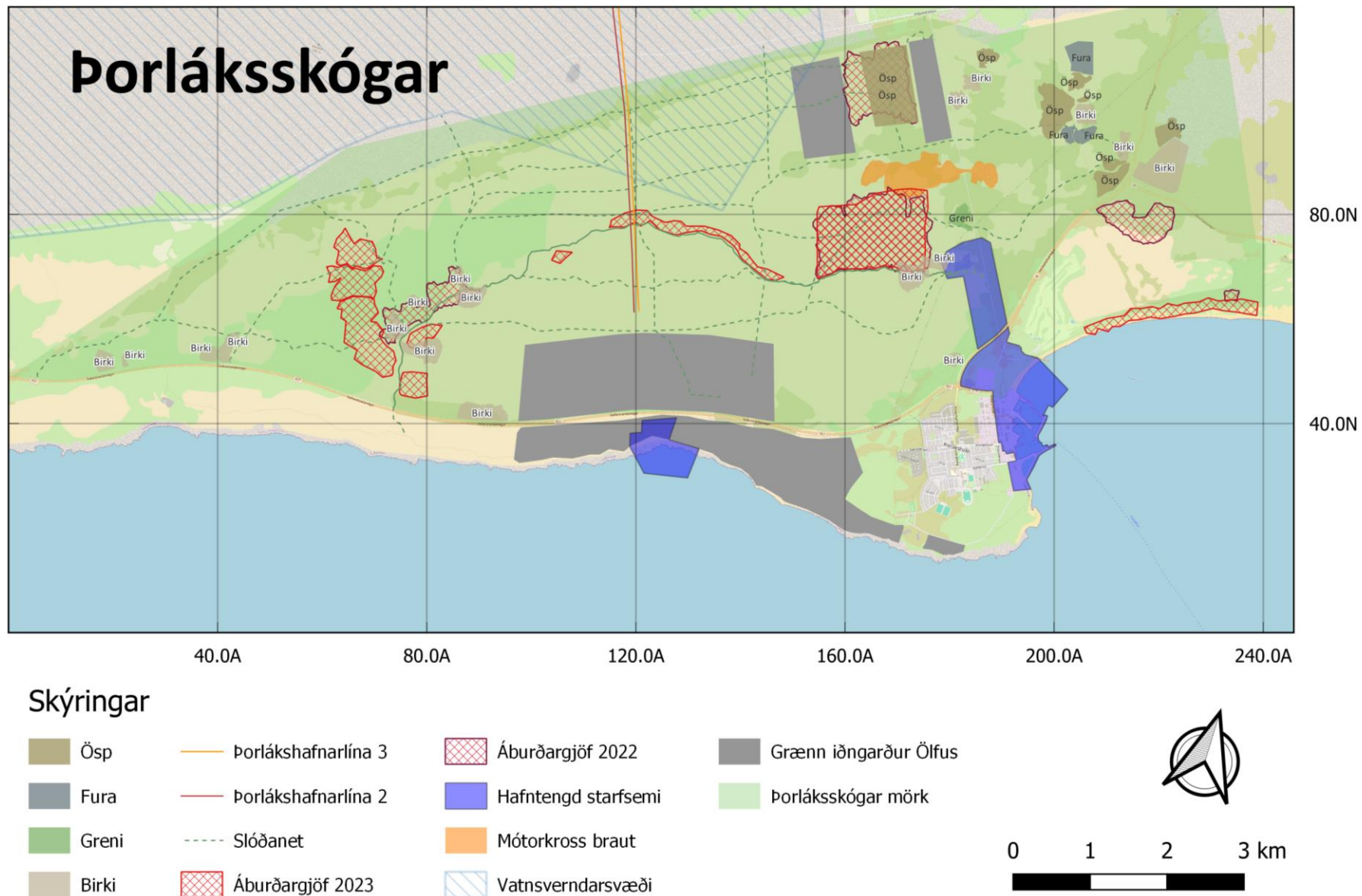


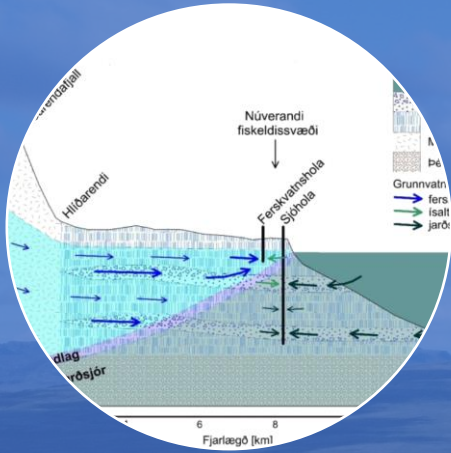
ÞORLÁKSKÓGAR

- 4620 hectares of land for forestry and carbon sequestration.
- Total carbon sequestration of about 33,000 tons per year.

Projected launched in 2016 in cooperation between the State Forestry and the Soil Conservation Service of Iceland and the municipality of Ölfus

Land planning is in progress for Green Industrial Parks and integration with land reclamation and forestry in Thorlaksskogar

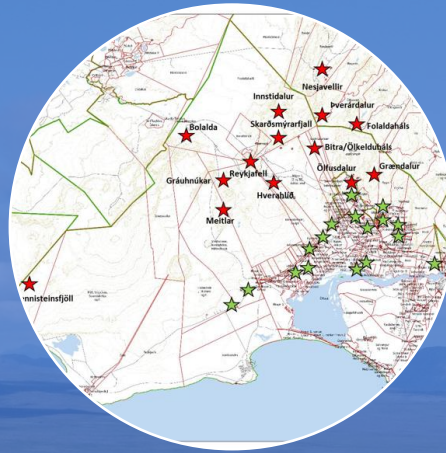




Groundwater



High
temperatur
zone

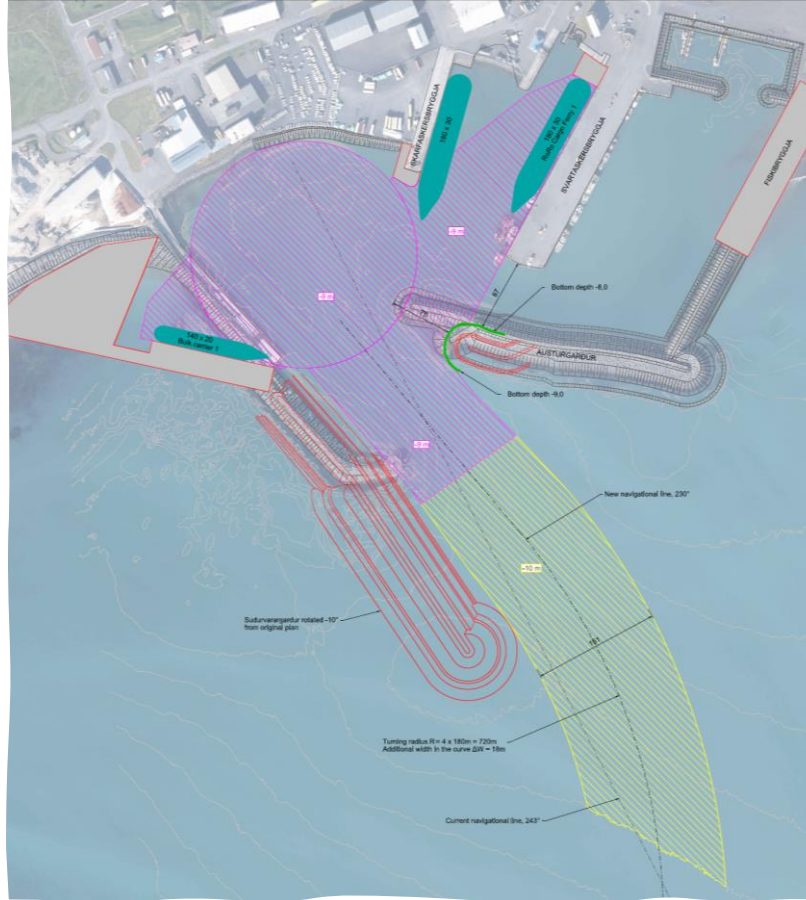


Low
temperature
zone



Optimal wind
profiles
(wind capacity
factor around
60%)

The municipality of Ölfus is rich in natural resources



Harbor

- Constructions started in 2021
- 4 billion ISK constructions in two years
- *Import/export harbor that has already proven its opportunity's. Will be able to service bigger vessels (180 m long and 35 m width) with not so much cost. Good construction options on land in relation to the harbor.*

IRIS 2022

From Galway in Ireland to Þorlákshavn in
Iceland

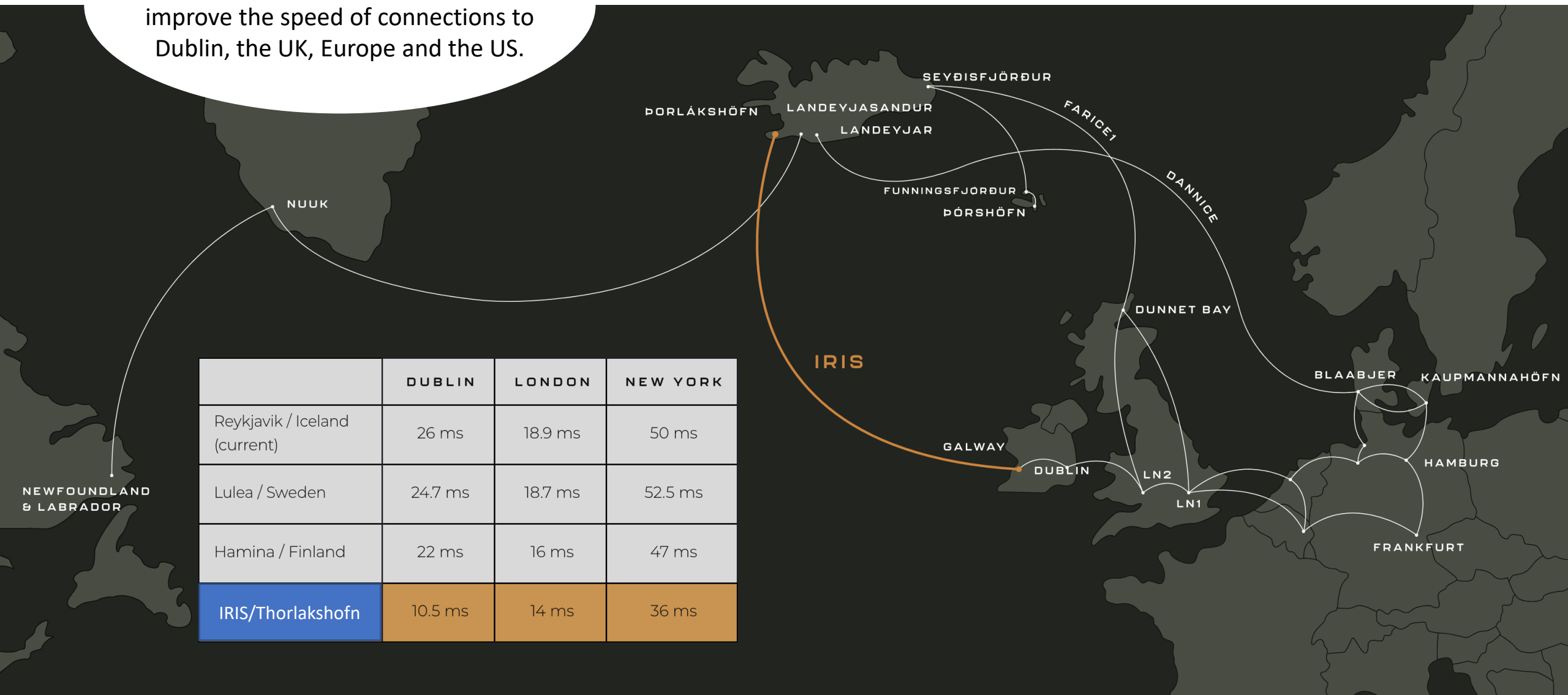
Two data cables connected Iceland to Europe,
FARICE-1 from Seyðisfjörður (2004)
DANNICE from Landeyjahöfn (2009)



IRIS

A new fiber optic submarine cable will improve the speed of connections to Dublin, the UK, Europe and the US.

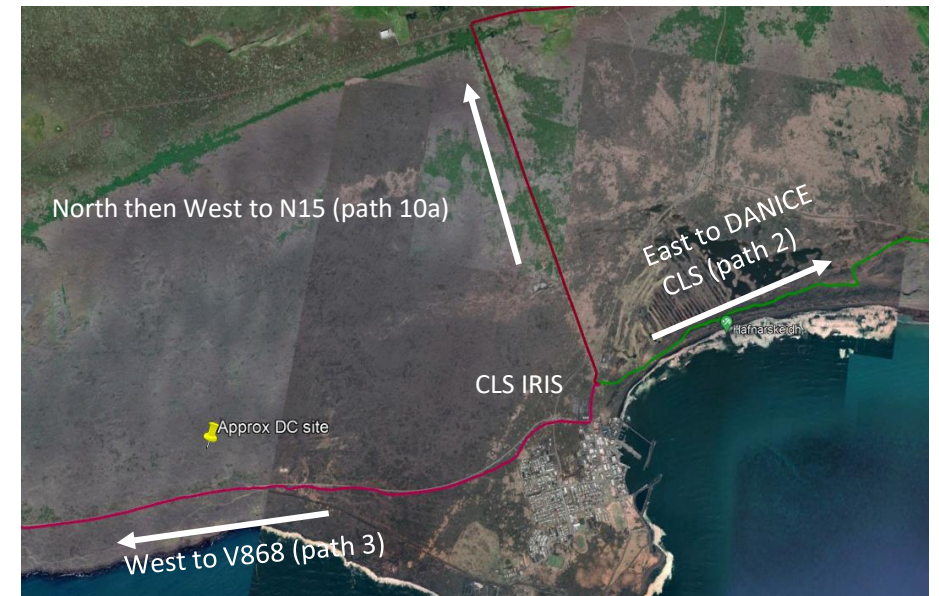
	DUBLIN	LONDON	NEW YORK
Reykjavik / Iceland (current)	26 ms	18.9 ms	50 ms
Lulea / Sweden	24.7 ms	18.7 ms	52.5 ms
Hamina / Finland	22 ms	16 ms	47 ms
IRIS/Thorlakshofn	10.5 ms	14 ms	36 ms



Fibers in use by Farice three paths from the CLS

Farice's South-West network

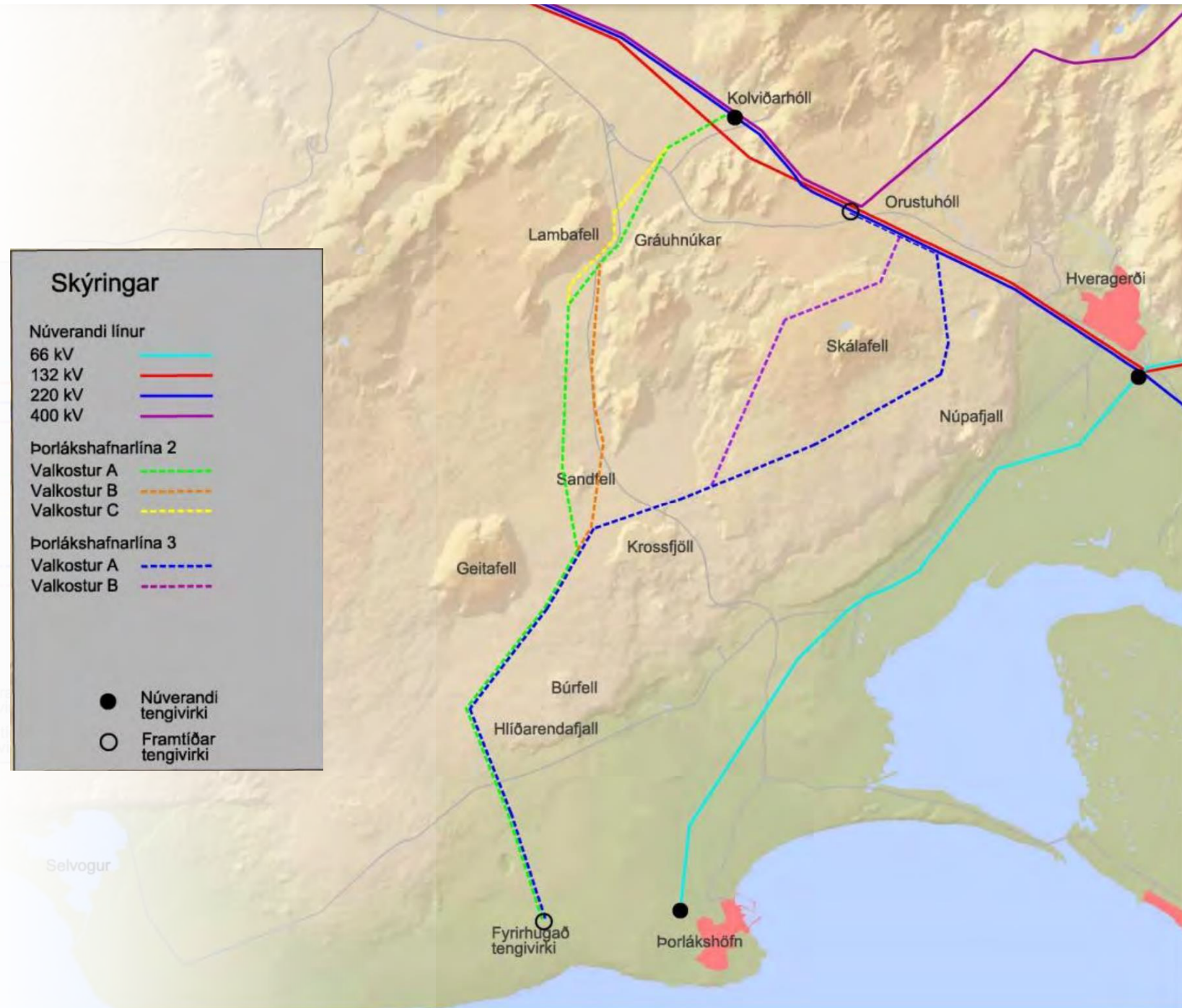
- New network infrastructure in 2002
- Farice's uses fibers from Ljósleidarinn) <https://www.ljosleidarinn.is/en/> in this area
- The DWDM network is automatically restored to the Service POPs in N15 and V868 and is an extension of the submarine cables



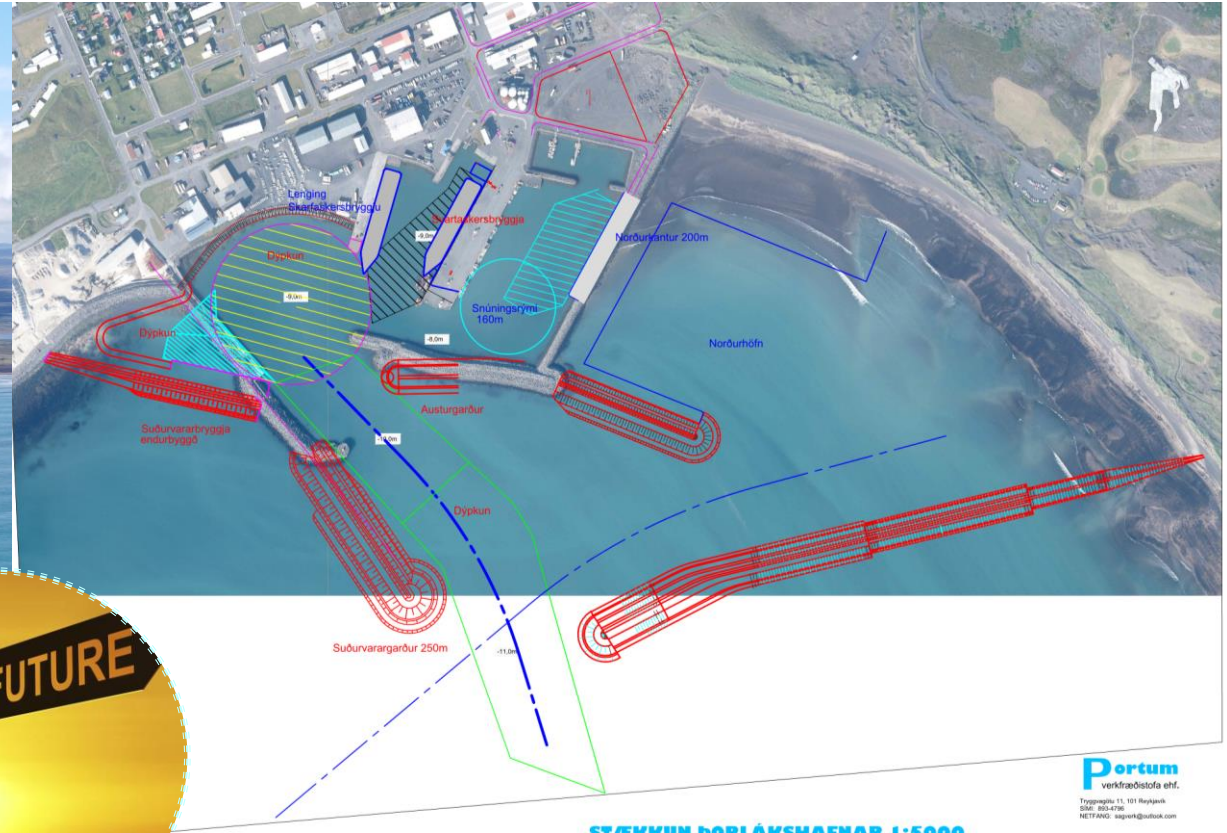
Initial assessment report

for two Transmission lines
from Hellisheiðavirkjun to
Þorlákshöfn

- Kolviðarhóll að Sandfelli
(Þorlákshafnarlína 2) 220 kV
- Orustuhóll að Sandfelli
(Þorlákshafnarlína 3) 220 kV
- Sandfell að Þorlákshöfn
(Þorlákshafnarlínur 2 og 3)

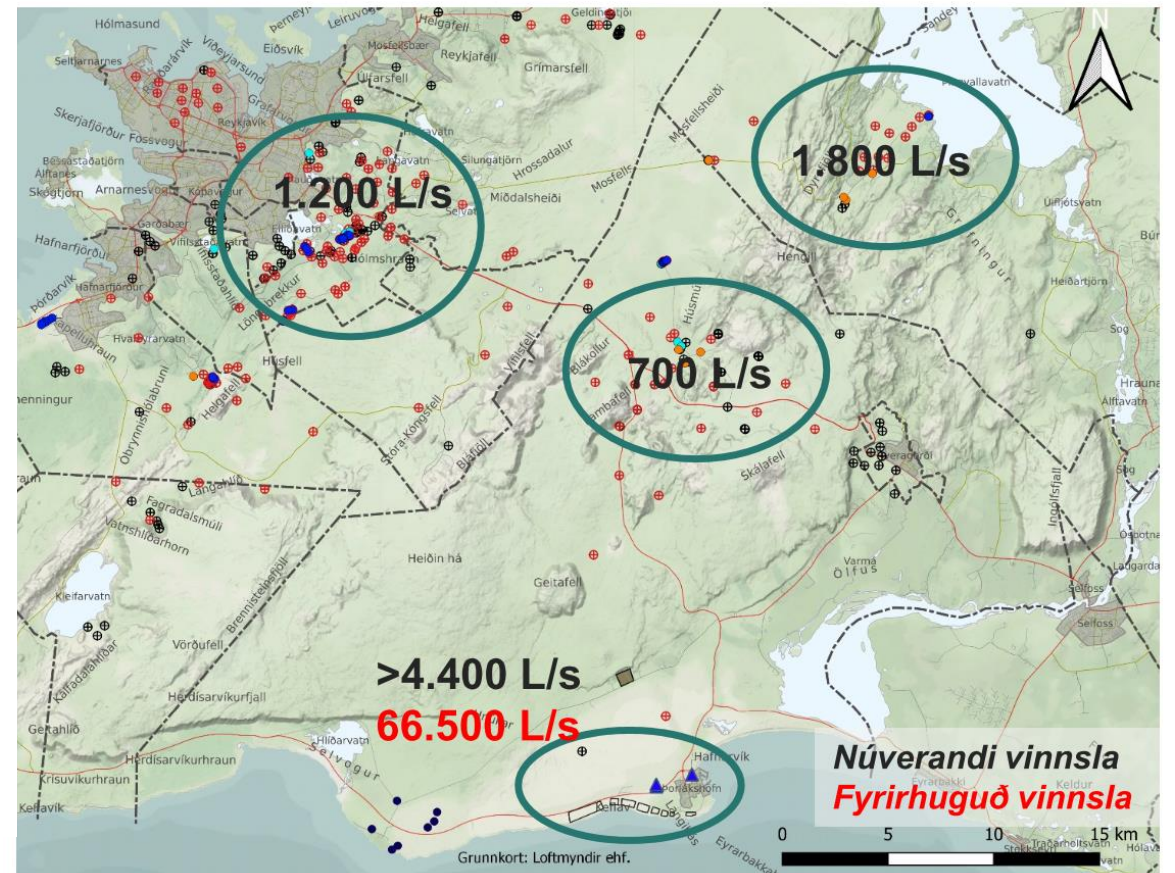
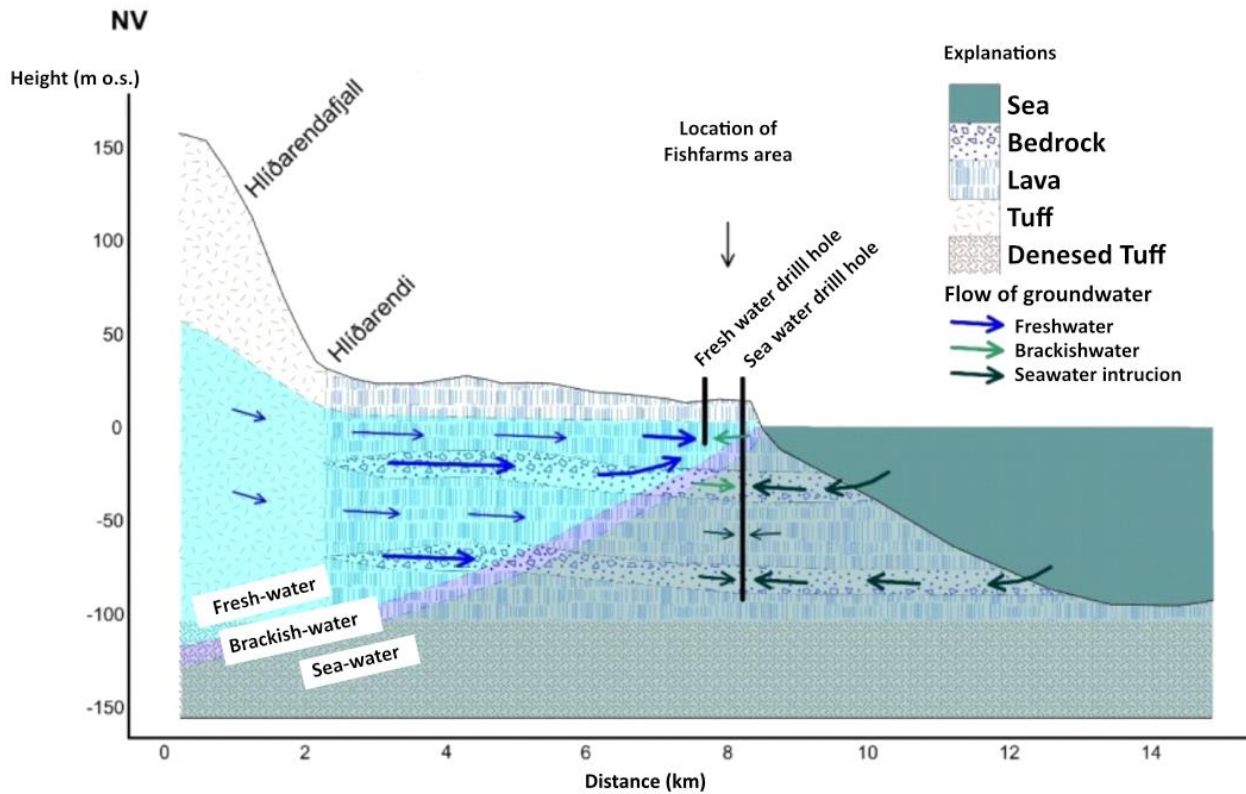


Harbor –plans for the future



Utilization and management of groundwater resources in the vicinity of Thorlakshofn

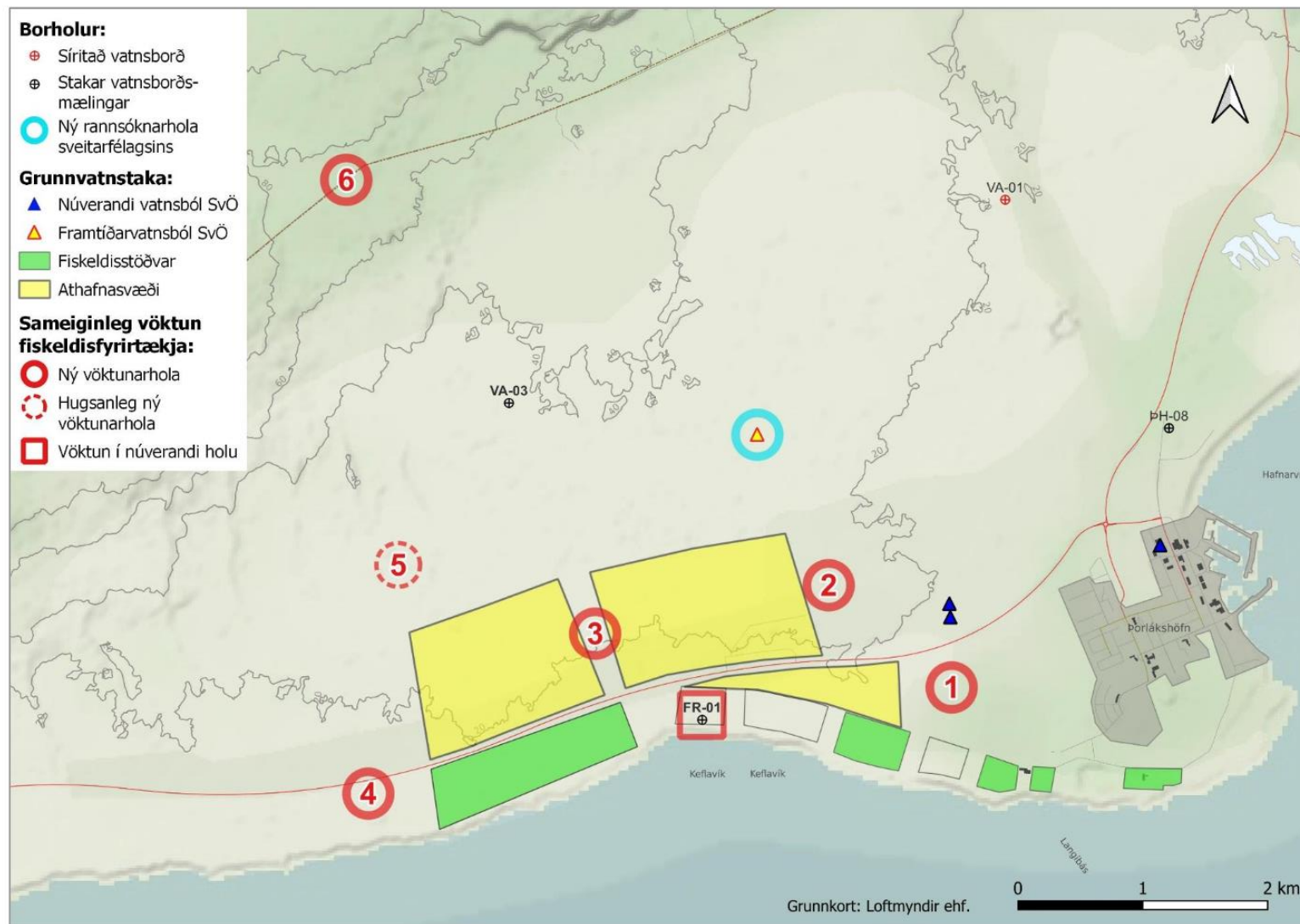
Complex groundwater system - Delicate balance of fresh- and saline groundwater



Groundwater abstraction

Reference locations

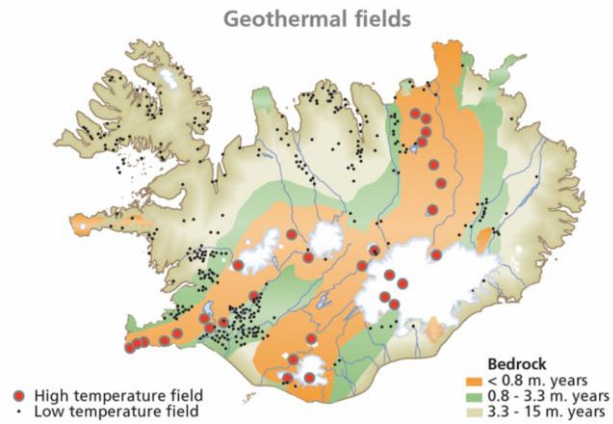
Monitoring and Research wells





Green energy hotspots



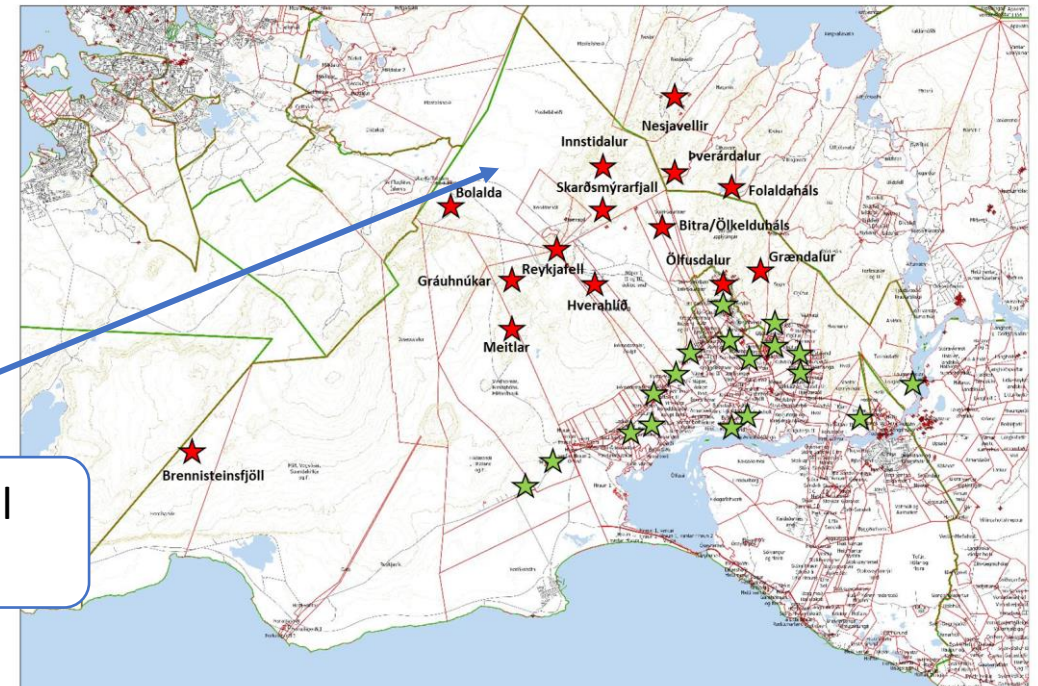


High/low temperatur zone

Hengil area..

... second largest high temp area, around 142 km² .

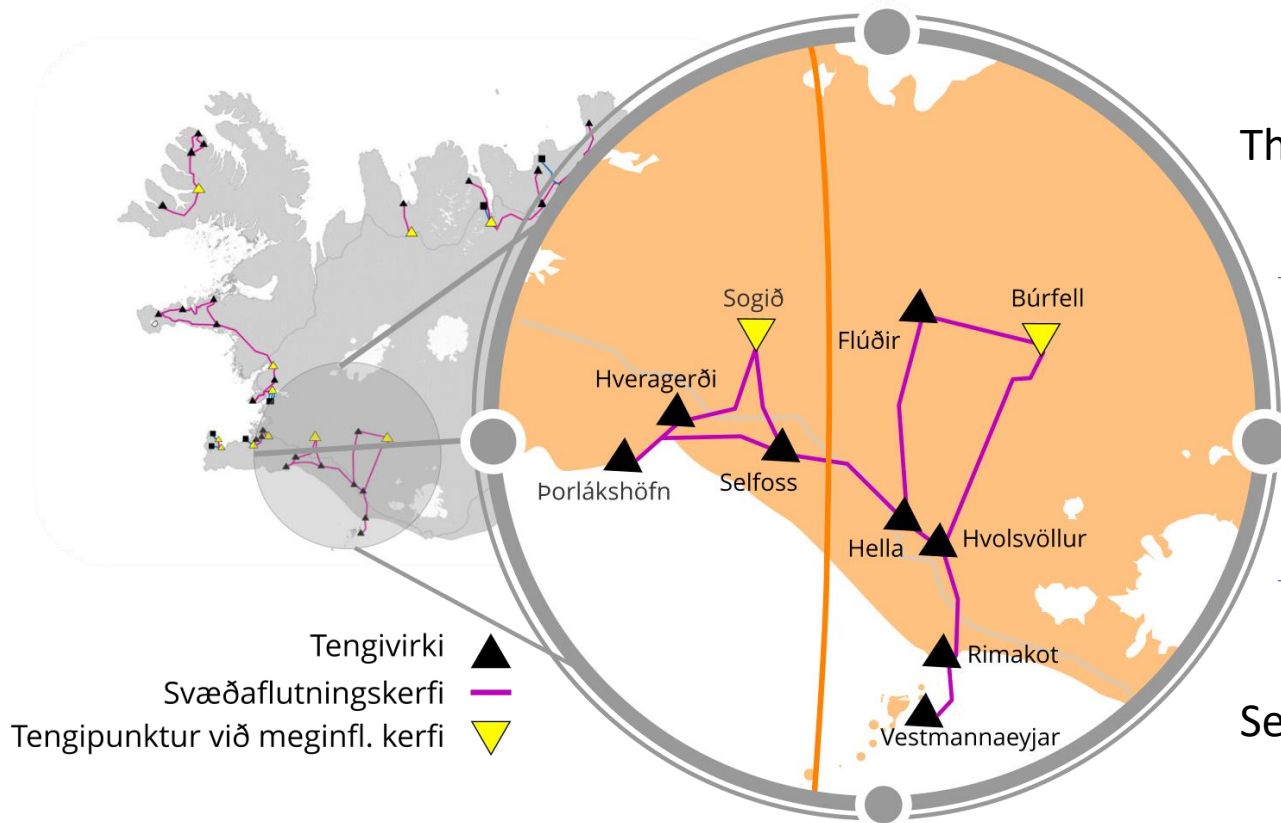
Hellisheiði Geothermal Power Plant 303 MW



Virkjun	Uppsett af	Eigandi
Fljótsdalsstöð	690 MW	Landsvirkjun
Hellisheiðarvirkjun	303 MW	Orka náttúrunnar
Búrfellsstöð	270 MW	Landsvirkjun
Hrauneyjarfossstöð	210 MW	Landsvirkjun
Blöndustöð	150 MW	Landsvirkjun
Sigöldustöð	150 MW	Landsvirkjun



Electrical grid of transmission lines in the Southern region



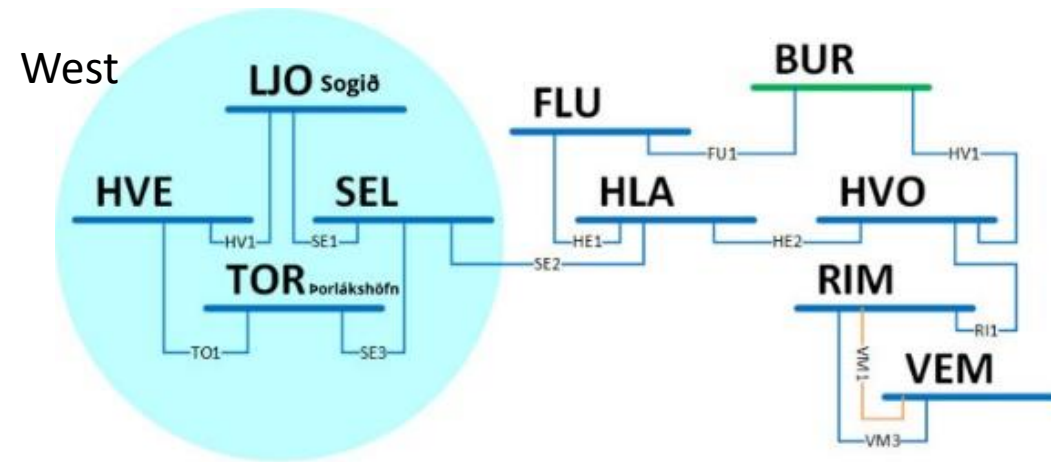
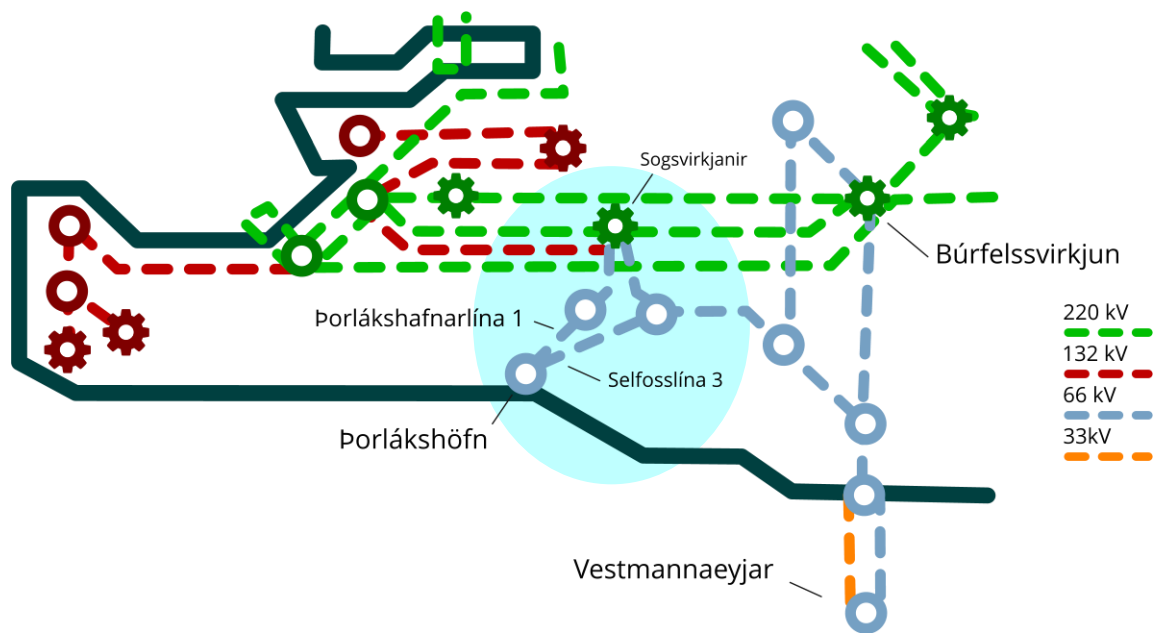
The Transmission grid within the Southern region is divided in two sub-systems, the East Part and the West Part.

The West part consists of five lines which are all 66 kV and connected to the main system (220 kV) through the Substation in Sogið.

The East and West parts are connected with Selfoss line 2 (SE2).

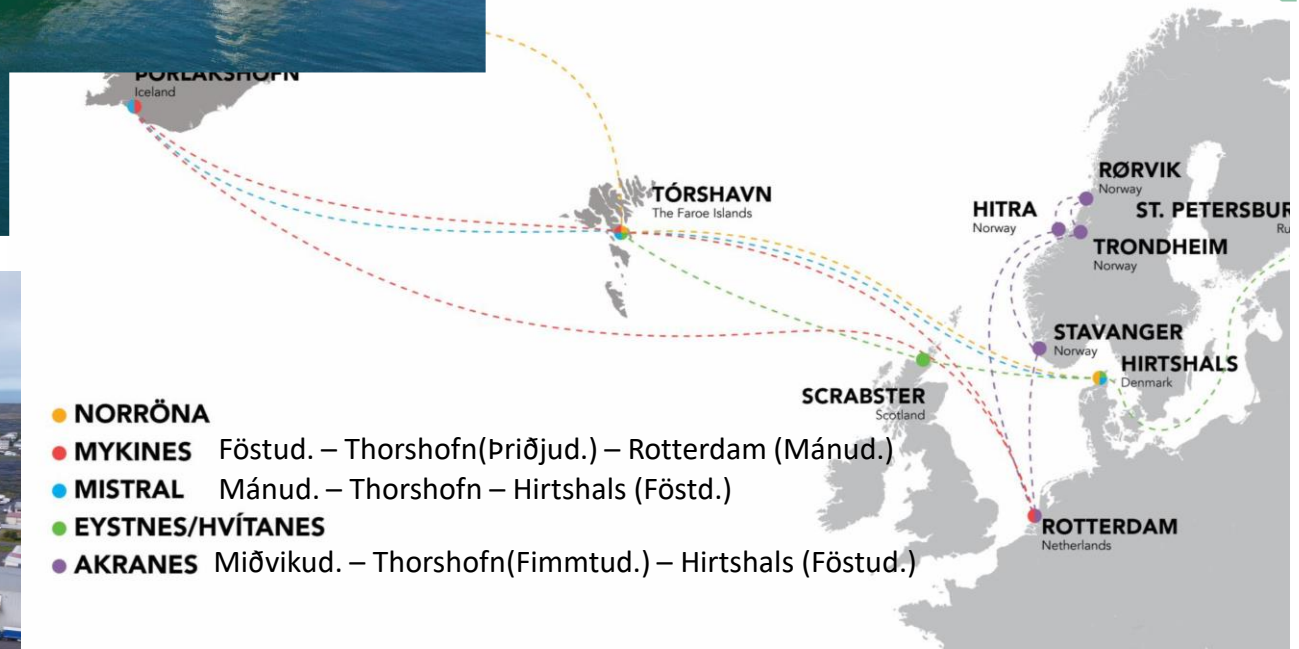
South region Transmission lines

- Selfoss line 1 – Capacity 66 kV
- Thorlakshofn line 1 – Capacity 66 kV
- Selfoss line 2 – Capacity 66 kV
- Hveragerdi line 1 – Capacity 66 kV
- Selfoss line 3 – Capacity 66 kV



<https://kuula.co/share/Ns0RY?logo=0&info=0&fs=1&vr=1&sd=1&initload=0&thumbs=1>





- **NORRÖNA**
- **MYKINES** Föstud. – Thorshofn(Þriðjud.) – Rotterdam (Mánud.)
- **MISTRAL** Mánud. – Thorshofn – Hirtshals (Föstd.)
- **EYSTNES/HVÍTANES**
- **AKRANES** Miðvikud. – Thorshofn(Fimmtud.) – Hirtshals (Föstud.)



