

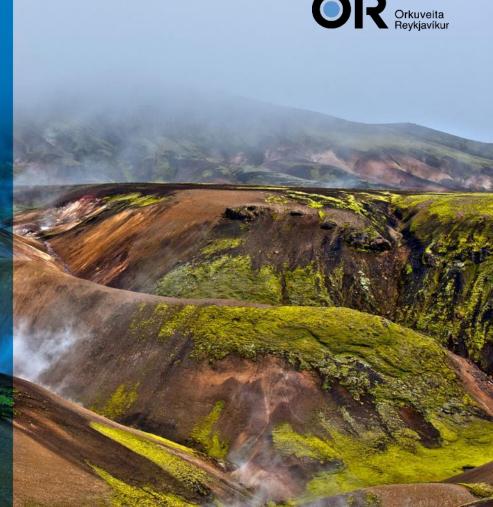
Hengill Volcanic Area

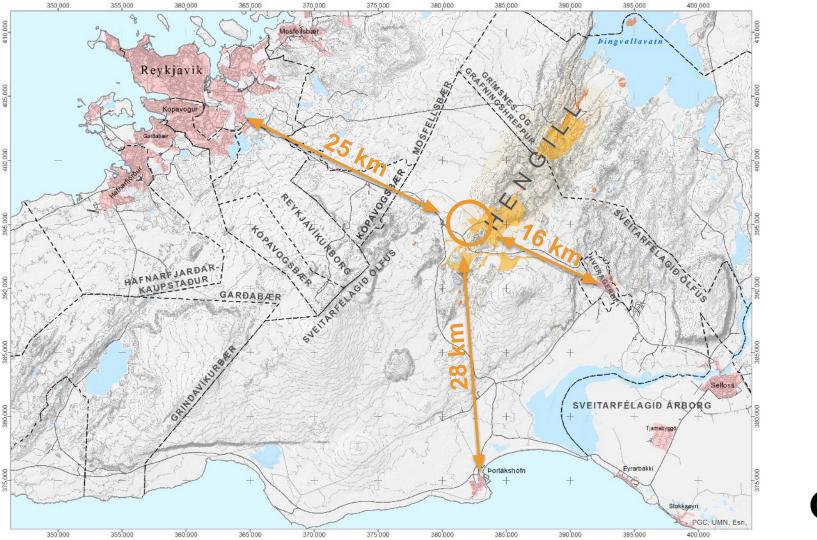
Synergies Between Energy Development and Landscape Experience

Heiða Aðalsteinsdóttir, Landscape Architect

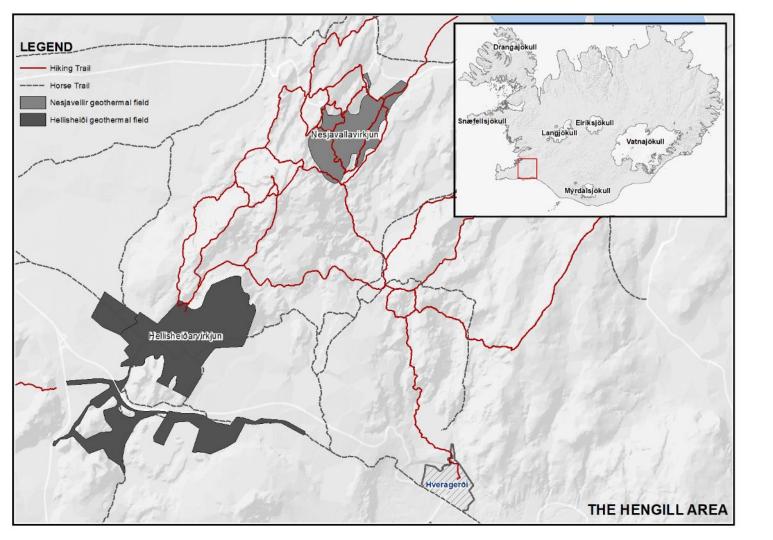
Seminar landscape – city – public space

September 23rd 2019













Hengill

Hengill volcanic area is amongst the largest high-temperature geothermal areas in Iceland, covering 100 km2

Geological features
Craters
Hot springs
Warm river

130 km trail network
Hiking
Trail running
Mountain biking
Cross country skiing
Bathing
Snow mobiling

Revkiavíkur

Hellisheiði

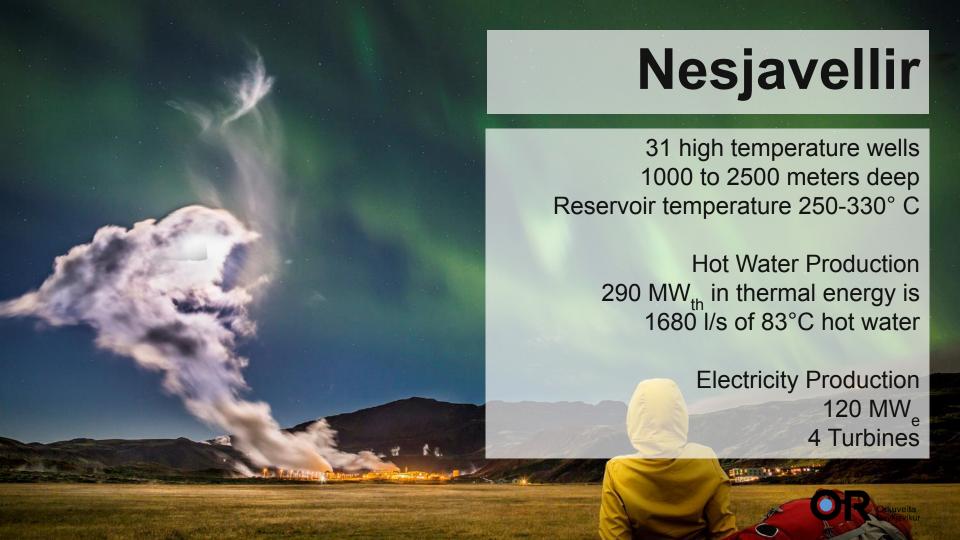
Largest geothermal power plant in the world

62 high temperature wells 1000 to 2500 meters deep Reservoir temperature 250-330° C

Hot Water Production
133 MW_{th} in thermal energy is
650 l/s of 83°C hot water

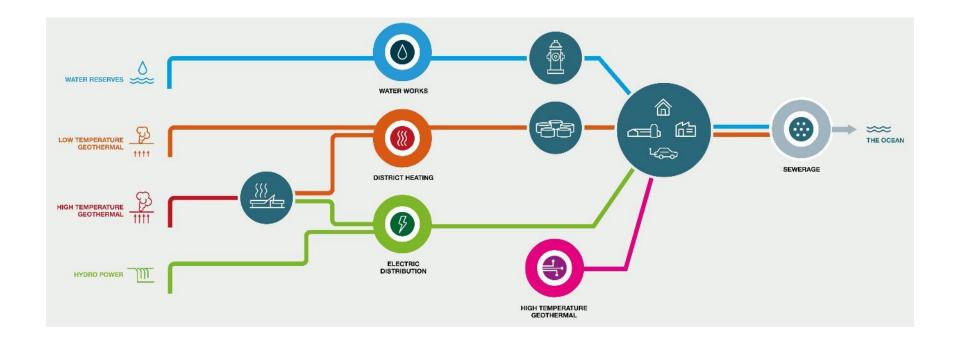
Electricity Production 303 MW_e 7 Turbines





Reykjavík Energy

Company Profile

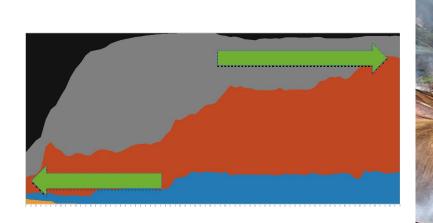


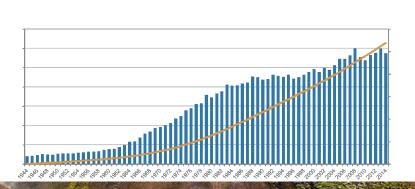


Why Geothermal?

The use of geothermal energy for space heating saves us \$3.500 per capita per year compared to importing fossil fuel.

Compared to oil, geothermal heating saves 3 million tonnes of CO₂ annually.





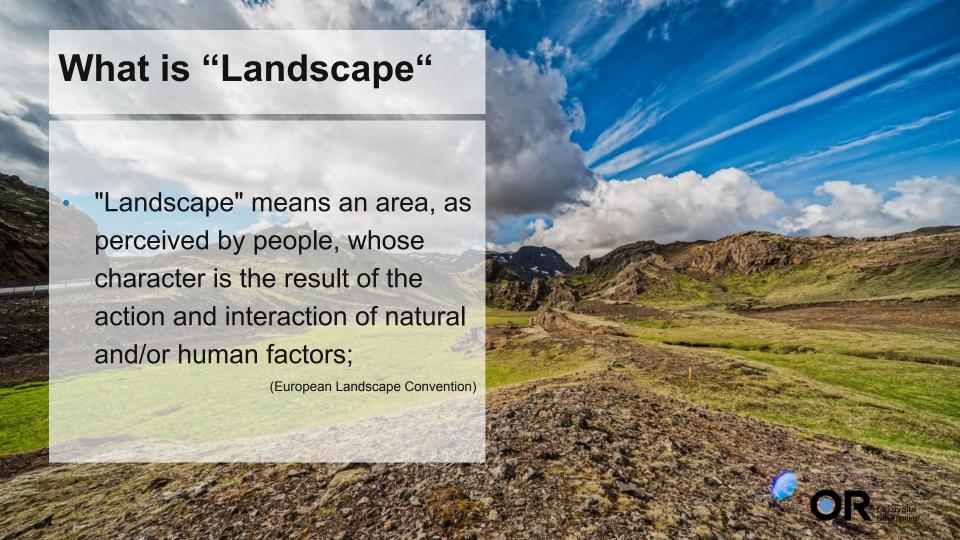


















Nesjavellir

- A viewpoint overlooking Lake Pingvallavatn and Nesjavellir Power Plant
 - Power station
 - Geothermal Field
 - Unesco site Þingvellir in the backdrop



How descriptive are the following words for the survey area?



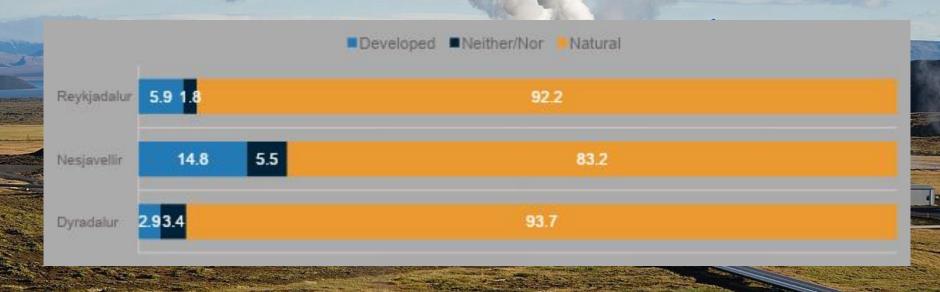


Satisfaction with nature in the area Satisfaction with stay in the area

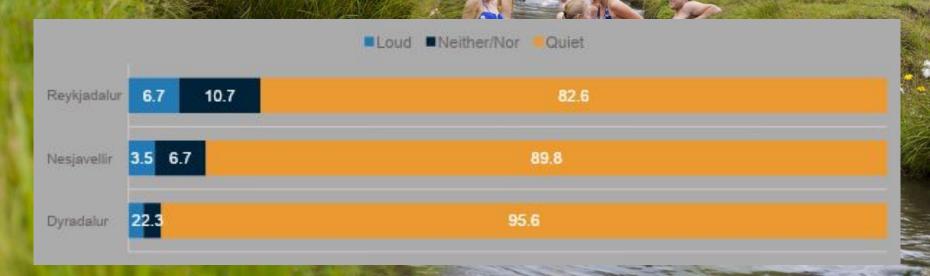




How natural is this area?



How quiet is this area?







Position on geothermal development at the Hengill area

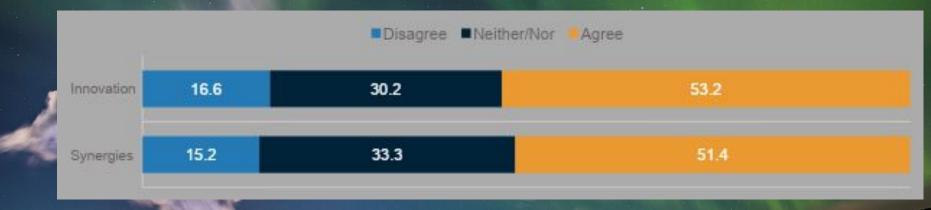
Utilization of geothermal steam from the Hengill area is the right thing to do
Geothermal power development is a better choice compared to hydropower development





Position on geothermal development at the Hengill area

Geothermal power development increases innovation potential in tourist services Geothermal power development and increased tourist services go hand in hand







The Hengill area as a wilderness/unspoiled nature

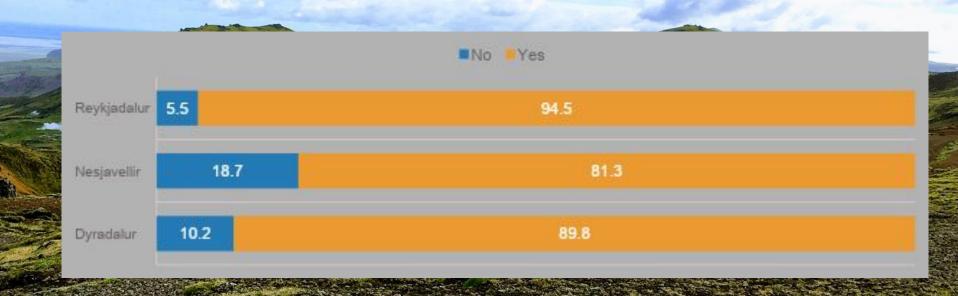
Did you visit this area to experience wilderness/unspoiled nature?

Do you think wilderness/unspoiled nature is part of the attraction of the area?



The Hengill area as a wilderness/unspoiled nature

Did you visit this area to experience wilderness/unspoiled nature

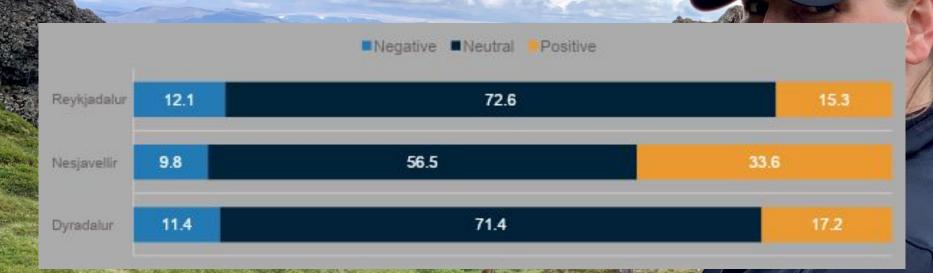






The Hengill area as a wilderness/unspoiled nature

What effect does the fact that there is a power plant at Hengill have on your interest in spending time outdoors in the area?





Appropriacy of structures/facilities in the area

