

Oil

- extraction platforms mainly in the North Sea
- > also in the Norwegian Sea and Barents Sea
- first oil field was discovered in 1969
- > has been used heavily since then
- oil extraction in the north is more complicated
 - harsh weather conditions (cold, storms etc)
 - region has a poor infrastructure

=> North Sea has already been exploited in big parts -> industry moves up north
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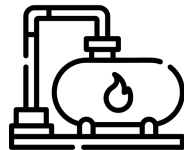
Natural gas

- largest gas field in Norway: Troll (40% of all of Norway's gas reserves)
- fields in the **north** of Norway are situated offshore:
 - > Goliat (8 bcm)
 - > Snøhvit (193 bcm)
 - > gas transported to Melkøya LNG plant (Hammerfest) by pipeline

30% of the EU's natural gas supply is imported from Norway (2023)



bcm = billion cubic metres
tcm = trillion cubic metres



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Hydropower

(generation of electricity by utilising the natural flow of water; afterwards returned to the natural water cycle: renewable energy)

- > perfect conditions in Norway (long coastline, many fjords...)
- => 291 hydropower plants which generate 96% of Norway's electricity

benefits:

- cheap energy (~0.12€ per kWh)
- reliable and stable source
- flexible and adjustable based on the desired amount of energy

problems and conflicts:

- destruction of landscape and vegetation
- use of space: conflicts with indigenous peoples in the northern regions

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comparison



Less oil industry
=> Germany buys lots of oil from Norway
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Europe's largest oil producer next to Russia

Total amount of natural gas reserves:

0.05 bcm (2020)

2.08 tcm (2022)



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<https://www.equinor.com/energy/snøhvit>

Overall number of hydropower plants:

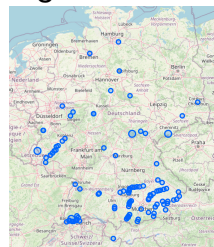
109 plants

291 plants

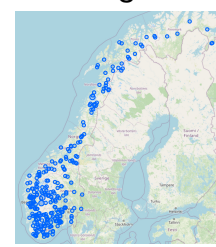
Total capacity:

9.7 gW

30.5 gW



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<https://database.earth/energy/power-plants/hydro-power/>

Demographic changes

- relatively low birth rates (1.55 births per woman in 2021)
- => lower than in Germany (1.58 births per woman in 2021)
- decline in births in 2009
- overall most people are aged between 20 and 60

source: Weltbank
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Shortage of skilled workers

- unemployment rate at record low of 1.8% (NAV, 2023)
- > Norwegians find jobs easily, but too many jobs remain unfilled
- sectors that are particularly affected in Norway:
 - > secondary sector (mainly engineering and manufacturing)
 - > tertiary sector (mainly healthcare)

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Migration

- most migrants in Norway work in construction, manufacturing and healthcare

- Hammerfest has the northernmost refugee camp
- 2016 <5000 refugees settled in Hammerfest

- strategies to get more people to Hammerfest
-> work on Melkøya (island for processing of natural gas)

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animal

Reindeers

- about 500,000 reindeers in Norway, most of them in the northern region of the country (including domestic and wild reindeer)

- wild reindeer almost died out
- provide cloths and food
- often eaten on pizza or dried as a snack in Norway



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<https://www.hurtigruten.com/en/inspiration/wildlife/reindeer>