

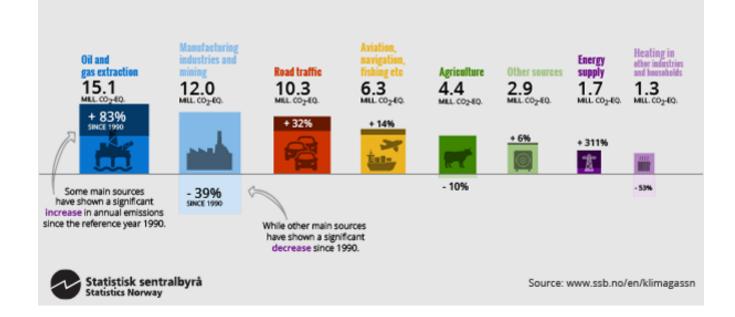






## Which sources contribute most to the emissions?

Oil and gas extraction is the main contributor to greenhouse gas emissions, and made up 28 per cent of the total emissions in 2015. Annual emissions from oil and gas extraction have increased by 83 per cent since 1990.



## **Energy balance, 2015, \*preliminary figures**

#### Primary energy production

Primary energy products are extracted or obtained directly from the environment and have not been transformed from other energy sources.

2 397 TWh

### **Supply**

The energy balance shows the energy flows that appear within the national territory

#### Net domestic energy consumption

Net domestic energy consumption mainly includes the consumption of secondary energy products as well as end use of biofuels, natural gas, coal and NGL/ethane.

Incl. raw materials 236 TWh

Excl. raw materials 213 TWh

#### By user group Manufacturing, mining

and quarrying

67 TWh (- 0.1% since 2014)



Transport **57 TWh** 

(+ 1.5% since 2014)



Other user groups 89 TWh (+ 2.5% since 2013)



49.6%

Natural gas

Crude oil 37.3%

Hydroelectric and wind energy 5.9%

Other 7.2% including NGL 4.2% condensate 1.9% and waste 0.7% coal 0.4%

Total energy supply

334 TWh

9 TWh International bunkers (marine and aviation)

#### - 3 TWh

Changes in stocks net decrease (+) net increase (-)

**♦** Exports **↑Imports** 2 140 TWh 89 TWh

United Kingdom, Germany, the Netherlands and France account for 75 per cent of the energy export from Norway.

#### **38 TWh**

Losses (11 TWh) and statistical differences (27 TWh)

#### **72 TWh**

Losses (ex: flaring, transmission and distribution losses) (6 TWh) and energy use in energy producing industries (66

Transformation: The process where primary energy products are converted into secondary energy products, such as crude oil being converted to gasoline.

#### How much is actually 1 TWh?

1 terawatt hour (TWh) is one billion kilowatt hours (kWh). An average Norwegian household uses around 20 000 kWh per year (2012).

#### 23 TWh

Energy used as raw materials

Energy products that are not used as fuel, but used as raw materials. Examples are oil products used in plastics production and natural gas used in methanol production.

### Energy consumption broken down by energy products

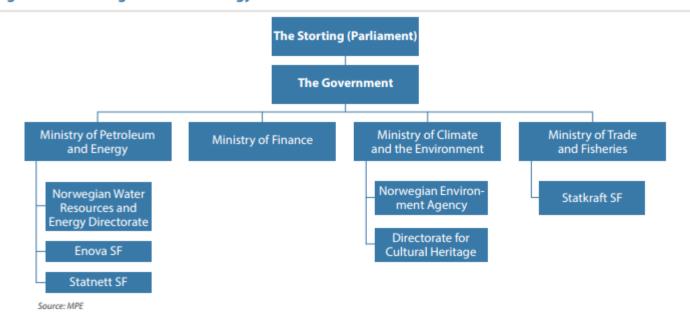


Source: www.ssb.no/en/energibalanse

Statistisk sentralbyrå Statistics Norway



Figure 1.1: State organisation of energy and water resources activities.





## A carbon neutral Norway in 2050

## 2020

- Parliament's Climate Agreement (2012)
- Kyoto commitment
- Contribute to lowering global emissions
- 30%

## 2030

- Paris Agreement
- Common emission obligation with the EU
- 40%



## A carbon neutral Norway in 2050

2020

Renewable energy target: 67,5 %

One full scale CCS project

Ban on oil furnaces

50 000 EVs by 2017

Technology

Biogas

**EU ETS** 

Rain forests

**Mechanims** 

Green sertificates

CLIMIT, TCM, funding over state budget

Legislative

Tax breaks +++

Climate Technology Fund, Enova

Enova

Brussels

RFDD+



# A carbon neutral Norway in 2050

2030

Non-ETS (transport, buildings, waste, agriculture): 40 %

**ETS** 

CCS

???????

