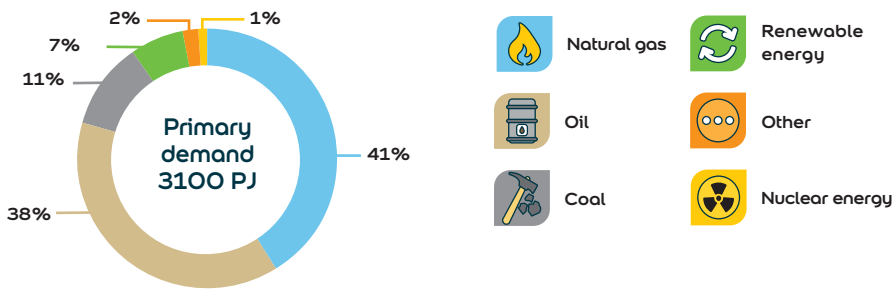
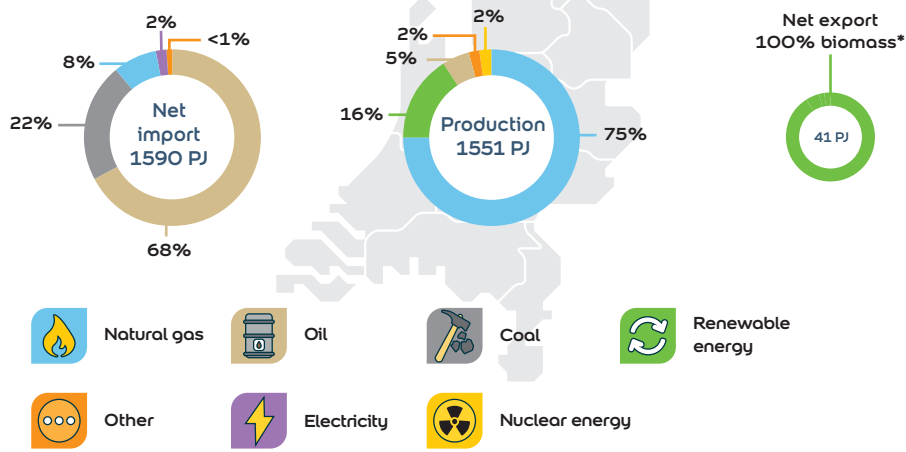


1 How much energy does the Netherlands use in total and from which source?



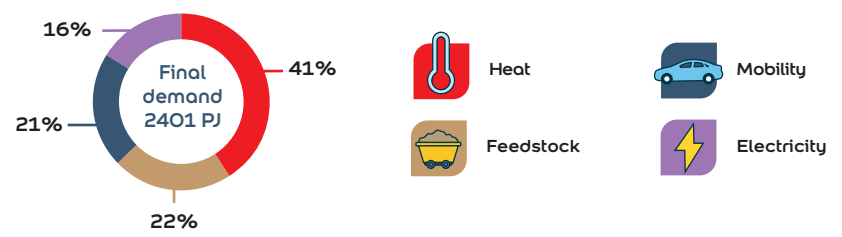
With 1 PJ you can provide a city like Tilburg with electricity for a year.

2 How much energy does the Netherlands produce, import and export and which type of energy is that?



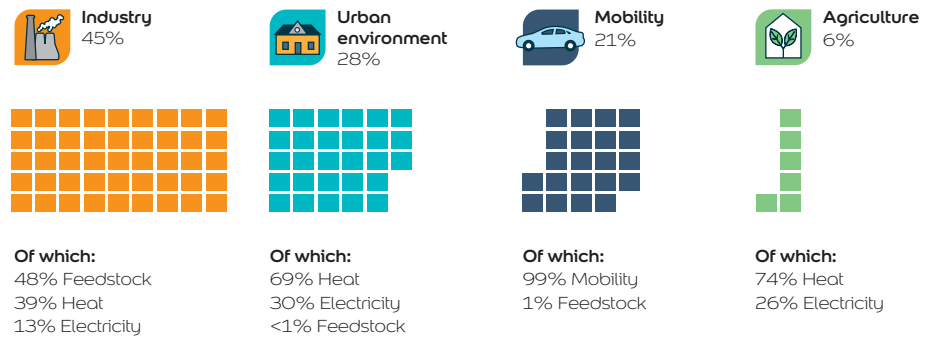
*This mainly concerns liquid biotransport fuels

5 What is the final energy demand and how is this divided over functions?

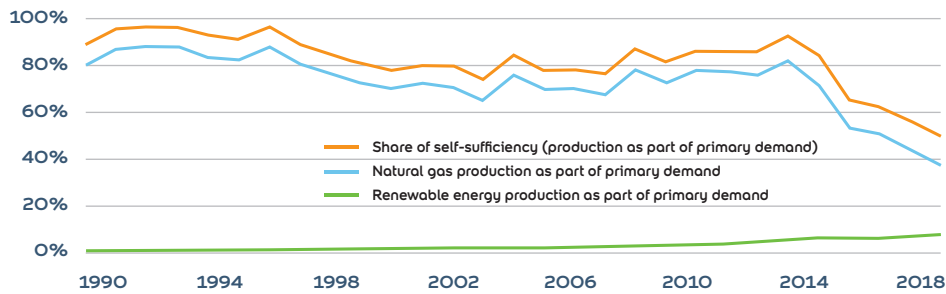


Final demand = primary demand (3100 PJ) - losses direct demand (169 PJ) - losses electricity production (530 PJ)

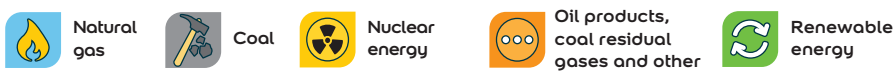
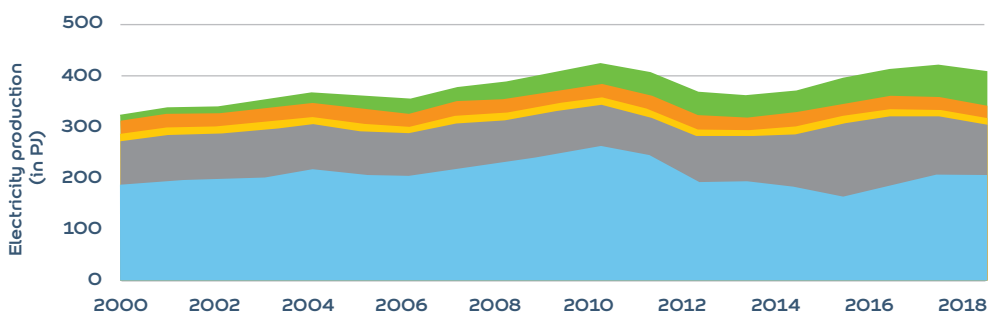
6 How is final energy demand divided between sectors?



3 Which part of our energy needs do we provide ourselves and how does that relate to the production of natural gas and renewable energy?



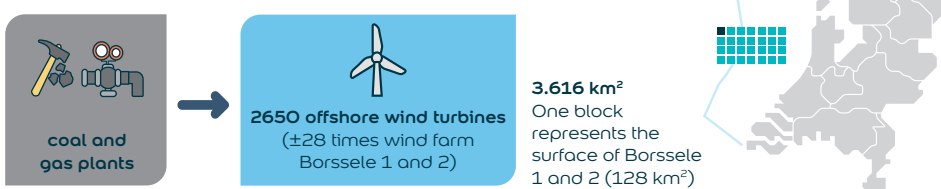
4 How much electricity do we produce and from which sources?



4A How efficient is electricity generation?

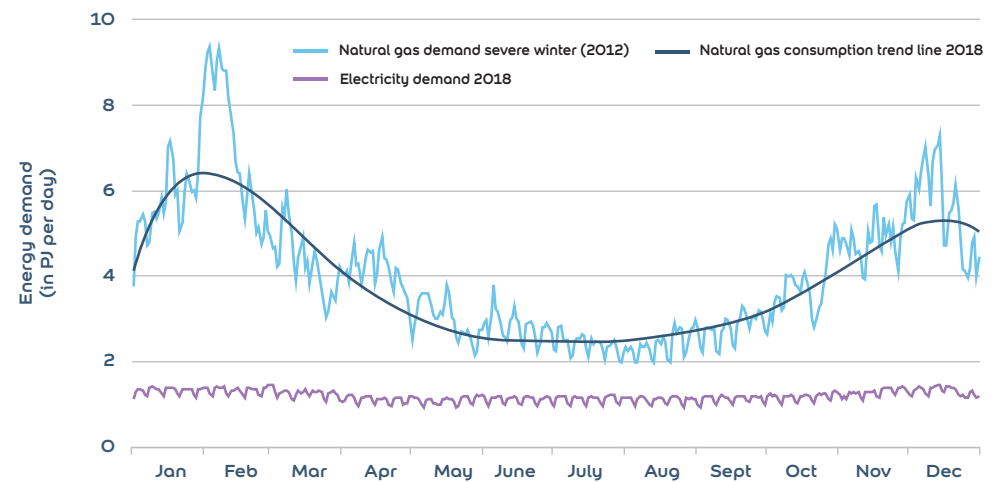


4B How many offshore wind turbines produce just as much electricity as the current producing coal and gas plants?

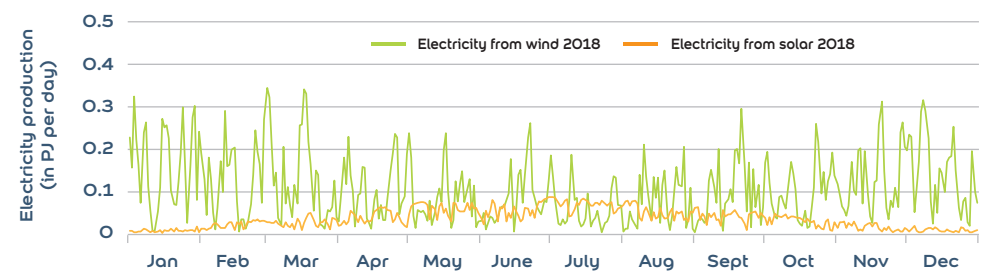


Wind farm Borssele 1 and 2 have 94 wind turbines of 8 MW.

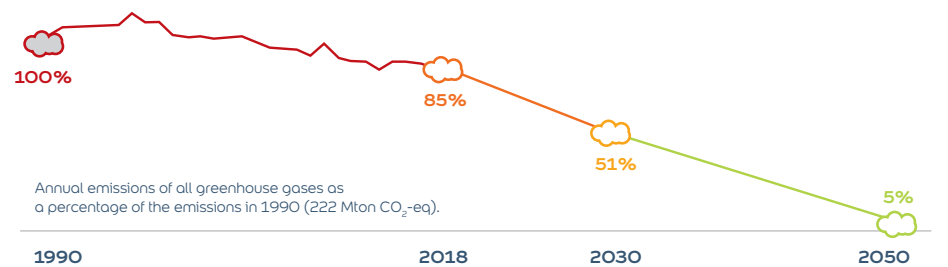
7 How does gas and electricity demand change throughout the year?



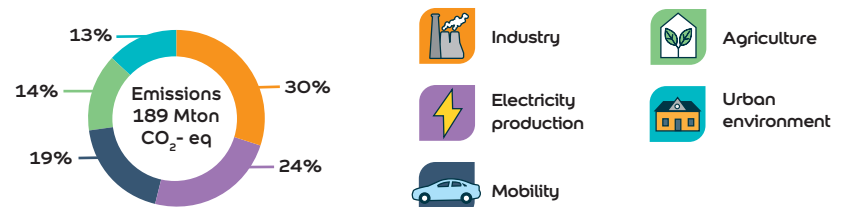
How does sun and wind production vary throughout the year?



8 How are greenhouse gas emissions developing so far and what are the goals of the Climate Agreement?



What is the emission of greenhouse gases per sector?

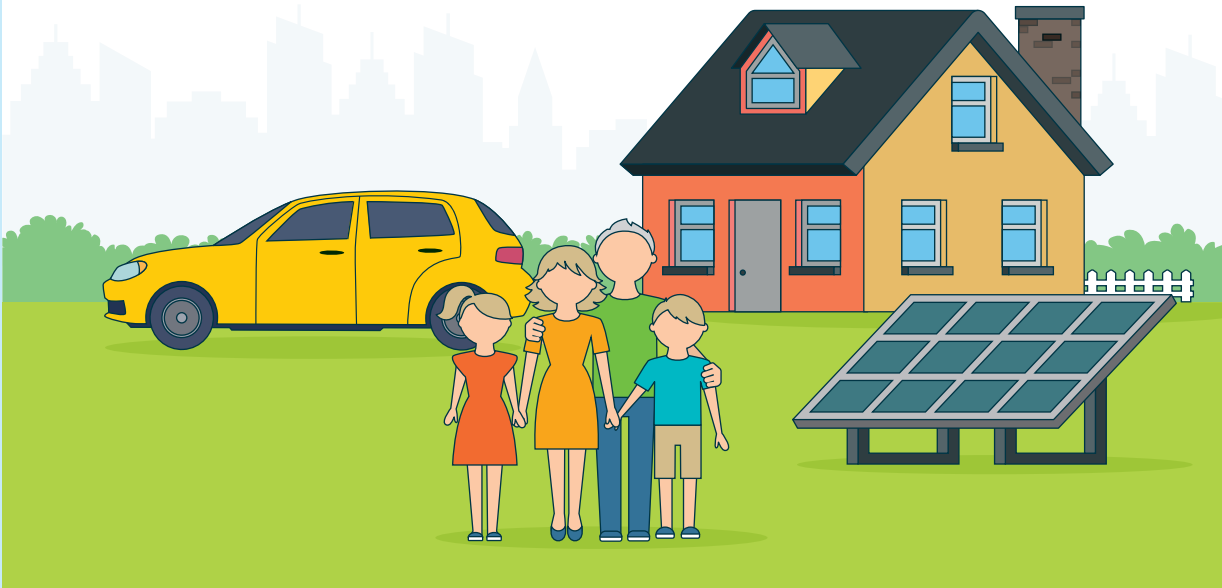


The reading guide with assumptions and additional explanations can be found on our website energieinnederland.nl.

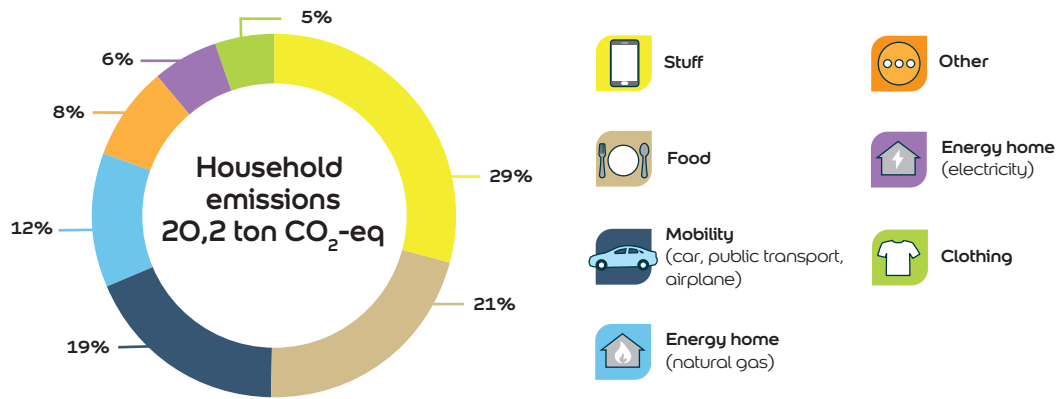
1 What does an average household look like and how much natural gas and electricity does it use?

An average household consists of 2.2 people and used 1270 m³ of natural gas and 2790 kWh of electricity in 2018 (if natural gas connection and not temperature corrected).

The 7.9 million households in the Netherlands use 10 billion m³ (bcm) of natural gas for heating. That is around a quarter of the total Dutch natural gas consumption (36 bcm).



3 Which greenhouse gas emissions does an average household have?



The CO₂ footprint of a household

A household causes **direct** greenhouse gas emissions from the use of natural gas and mobility, for example.

In addition, a household **indirectly** causes emissions through the use of, for example, electricity, stuff, food and clothing. These products must be made, processed and transported. This causes greenhouse gas emissions.

5 How many solar panels does an average household need to produce the energy that corresponds to:



2 How does the energy content of the yield from sustainable resources relate to the energy content of 1.9 bcm of natural gas?

It was agreed in the Climate Agreement that by 2030 **1.5 million households should be rid of natural gas** (1,9 bcm of natural gas).



3526 km² biomass

Based on the cultivation of a crop with high energy density, an area the size of the province South-Holland is needed.

or

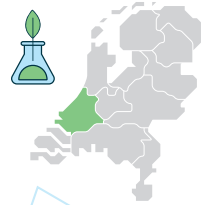
582 offshore wind turbines

This requires approximately a surface area six times that of wind farm Borssele 1 and 2.

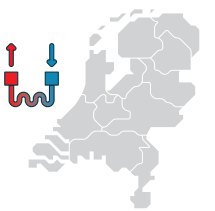
or

325 geothermal wells

Geothermal wells hardly take place.

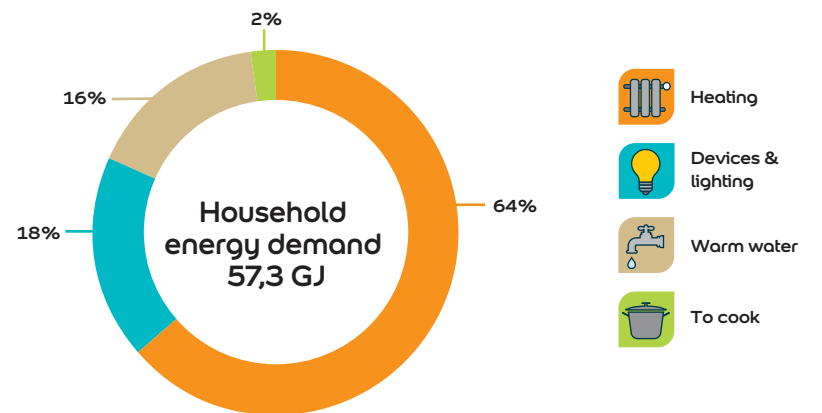


794 km²
One block represents the surface of Borssele 1 and 2 (128 km²)



Source: TNO (2019)

4 Where we use energy at home?



6 Did you know...



... a non-insulated single-family home uses more than 4,5 times as much gas as a modern single-family home?

2800 m³/year

600 m³/year



... a 15-year-old fridge freezer consumes nearly 2,5 times as much electricity as a modern refrigerator?

390 kWh/year

160 kWh/year



2500 kg CO₂-eq



... a return Thailand causes about as much emissions as the annual gas demand of an average household?

2700 kg CO₂-eq



For further information go to energiein nederland.nl

Curious about your own CO₂ footprint? Take the test: www.milieucentraal.nl/klimaat-en-aarde/klimaatklappers/wat-is-je-co2-voetafdruk/

This side of the infographic was created in collaboration with Milieu Centraal.