



How does the electricity grid work in Norway?

The electricity grid enables electricity transport from producers to consumers, and connects Norway's power system to other countries' systems. The three fundamental functions of the power supply system are: A reliable supply of electricity is crucial in modern society.

Does Norway have a wind power system?

The share of wind in Norway's electricity system has increased tenfold in the last decade, accounting for 6.5% of total electricity generation in 2020, making it the second-largest electricity generation source in the country.

Why does Norway have a power exchange system?

The power exchange between Norway and other countries ensures sound overall resource use and improved value creation. The electricity grid enables electricity transport from producers to consumers, and connects Norway's power system to other countries' systems.

How do power plants in Norway work?

Many power plants in Norway have storage reservoirs and production can therefore be adjusted within the constraints set by the licence and the watercourse itself. Wind and solar power are intermittent; electricity can only be generated when the energy is available.

Does Norway have hydropower?

Hydropower accounts for most of the Norwegian power supply, and the resource base for production depends on the precipitation in a given year. This is a significant difference compared to the rest of Europe where security of supply is mainly secured through thermal power plants, with fuels available in the energy markets.

How much power does Norway produce a year?

In a normal year, the Norwegian power plants produce about 156 TWh. In 2021, Norway set a new production record with a total power production of 157.1 TWh. In 2022, there was low levels of water inflow to the reservoirs, and the total power production was 146.1 TWh.

# NORWAY SELF SUFFICIENT POWER SYSTEMS



Norway has made progress on the path towards green growth over the past decade. The country is a frontrunner in many environmental areas and invests heavily in technological development ???



Security of supply was improved even though the principle of self-sufficiency was left. This was due to increased interconnector capacity with neighbouring countries, many of which were dominated by thermal generation



Integration with other countries' power systems, the well-developed power grid and the characteristics of hydropower production make Norway's power supply system very flexible, reducing vulnerability to fluctuations in production between seasons and years.

# NORWAY SELF SUFFICIENT POWER SYSTEMS



The grid system is designed to handle peaks in electricity consumption, which generally occur on the coldest days in cold years, and to allow for import of sufficient quantities of electricity for extended periods, for example in dry years.



Energy export??? Norway is not only self-sufficient in terms of energy, but also a significant exporter of electricity, primarily to neighbouring countries such as Sweden, Denmark, Finland, and the Netherlands, through interconnectors.



Different solutions have been offered to address self-sufficiency, green-energy dependency, and carbon mitigation in remote and isolated locations. Fortunately, renewable energy sources (RESs), such as solar, wind, and geothermal, are the remedy to this issue.

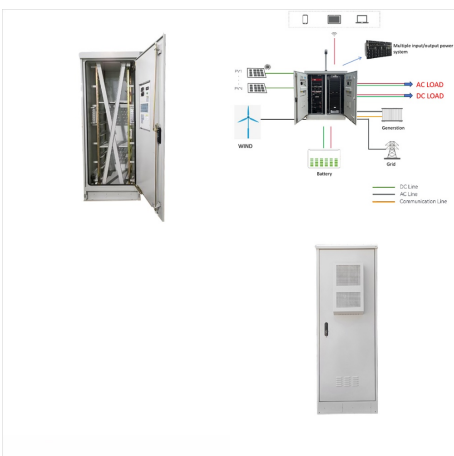
# NORWAY SELF SUFFICIENT POWER SYSTEMS



Yes, Norway is largely self-sufficient in electricity production. Where does Norway get most of its electricity? Norway gets most of its electricity from hydropower, which accounts for the majority of the country's power supply.



Hydropower's unique ability to deliver energy and power when needed makes it the flexible backbone of the Norwegian and Nordic power system. Our ambition is to develop five new hydropower projects in Norway by 2030.



Norway has made progress on the path towards green growth over the past decade. The country is a frontrunner in many environmental areas and invests heavily in technological development and innovation to support its green transition.

