

Norway - Energy System Overview



General information

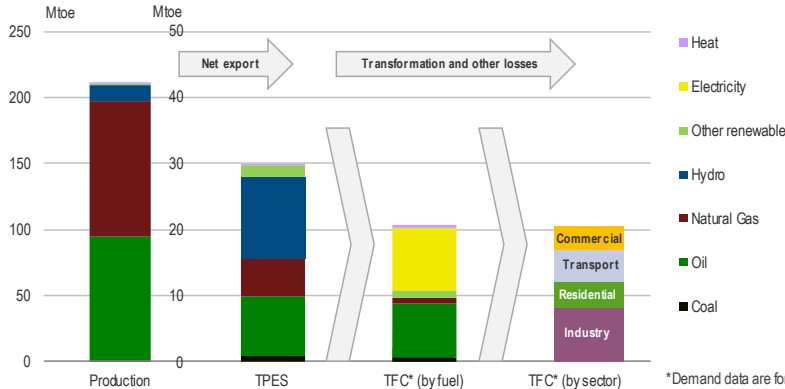
Norway
 Country size 304 000 km²
 Population (2016) 5.2 million
 GDP (2016) 311 billion USD 2010 prices and PPPs

12th compared to IEA countries
 0.4% of IEA population
 * PPP = Purchasing Power Parities

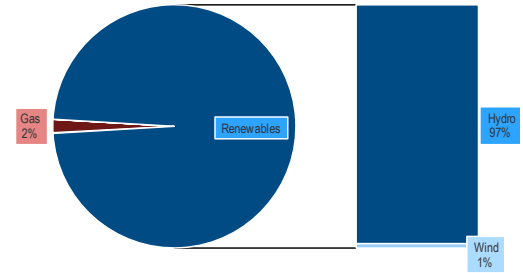
Energy system transformation

SUPPLY AND DEMAND 2016

TPES: 28.4 Mtoe, 50% renewables (IEA average 10%)



ELECTRICITY GENERATION: 149 TWh
 98% renewables (IEA average: 24%)

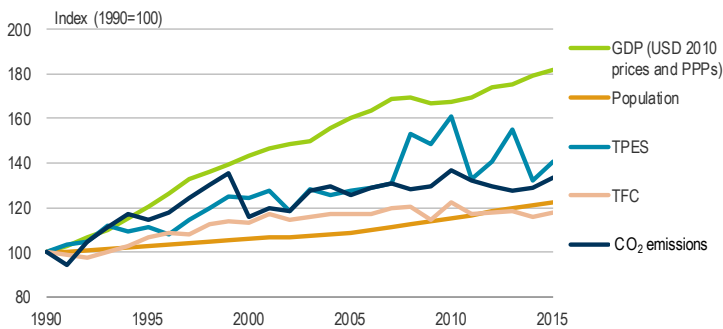


Fuel shares compared to IEA average

Fuel	TPES (%)	IEA average* (%)	IEA range (%)	Electricity (%)	IEA average (%)	IEA range (%)
Coal	3	17	0-69	0	28	0-84
Oil	32	36	7-58	0	2	0-10
Gas	20	27	2-40	2	27	1-51
Hydro	43	2	0-43	96	13	0-96
Nuclear	0	10	0-44	0	19	0-73
Biofuels	6	6	2-27	0	3	0-26
Wind	1	1	0-7	1	6	0-42
Geothermal	0	1	0-23	0	0	0-18
Solar	0	1	0-3	0	2	0-13

* IEA Average - total supply per fuel / TPES for 29 IEA countries

KEY ENERGY INDICATOR DEVELOPMENT, 1990-2015



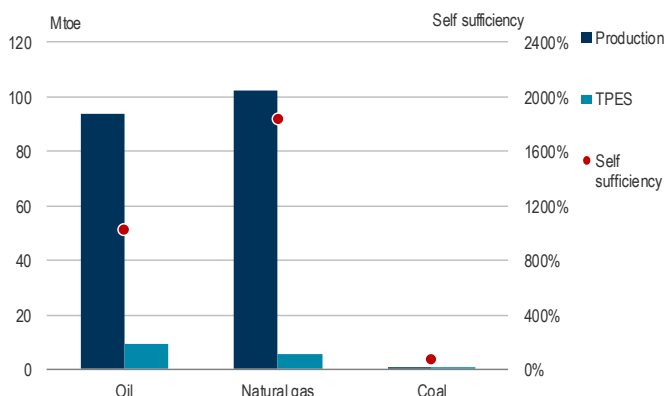
ENERGY AND CARBON INTENSITY (2016)

	Norway	IEA average
TPES per capita (toe/cap)	5.42	4.42
Electricity consumption per capita (MWh/cap)	23.73	8.69
Emissions* per capita (tCO ₂ /cap)	7.07	9.88
Energy intensity (TPES) (Mtoe/USD PPP million)	91	96
Emission* intensity (tCO ₂ / USD PPP million)	119	193

* CO₂ emissions from fuel combustion (2015 data)

Energy Security

PRODUCTION AND SELF SUFFICIENCY, 2016



ENERGY IMPORT/EXPORT

FUEL	QUANTITY	IMPORT/EXPORT COUNTRY
Crude Oil		
Imports	0.5 Mt	Russian Federation (33.9%)
Exports	69.3 Mt	United Kingdom (43.7%)
Oil Products		
Imports	5.5 Mt	Sweden (31.6%)
Exports	16.6 Mt	Netherlands (15.1%)
Natural gas		
Imports	0 bcm	-
Exports	114.6 bcm	Germany (39.2%)
Coal		
Imports	0.7 Mt	Colombia (64.2%)
Exports	0.9 Mt	Germany (47%)
ELECTRICITY		
Imports	7.4 TWh	Sweden (75.8%)
Exports	22 TWh	Sweden (42.3%)

Note: 2016 data are estimated

Source: IEA World Energy Balances 2017