

Finland - Energy System Overview

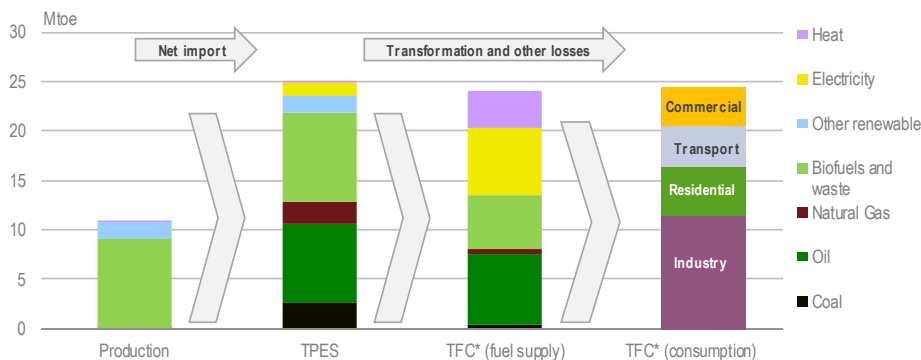
General information

Finland		
Country size	305 000 km ²	11th compared to IEA countries
Population (2015)	5.481 million	0.4% of IEA population
GDP (2015)	208.113 billion USD 2010 prices and PPPs	

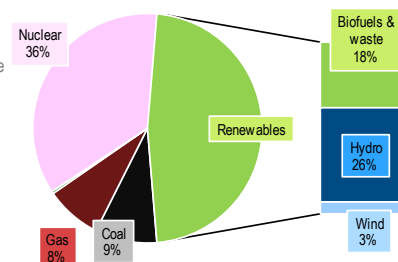
Energy system transformation

SUPPLY AND DEMAND 2015

TPES: 32.5 Mtoe, 33% renewables (IEA average 10%)



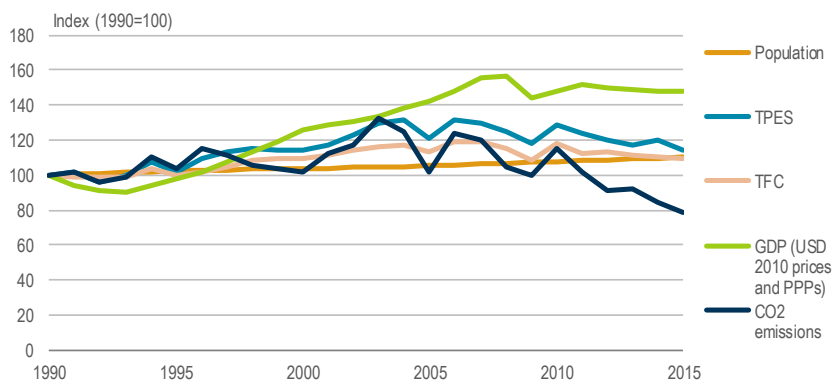
Electricity generation: 68.6 TWh
45% renewables (IEA average: 24%)



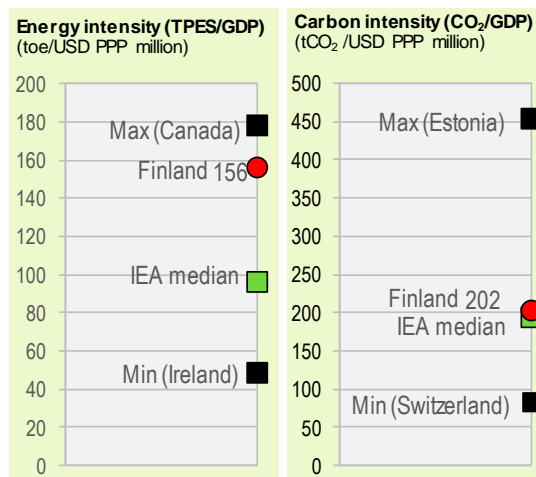
Fuel shares compared to IEA average

Fuel	TPES	IEA average	Ranking in IEA	Electricity	IEA average	Ranking in IEA
Coal	8%	18%	20	8%	30%	21
Oil	24%	36%	25	0%	2%	21
Gas	7%	26%	28	8%	25%	20
Hydro	4%	2%	8	24%	13%	8
Nuclear	19%	10%	5	34%	19%	7
Biofuels	28%	6%	1	17%	3%	1
Wind	1%	1%	22	3%	5%	22
Geothermal	0%	1%	22	0%	0%	9
Solar	0%	0%	27	0%	2%	26

KEY ENERGY INDICATOR DEVELOPMENT, 1990-2015



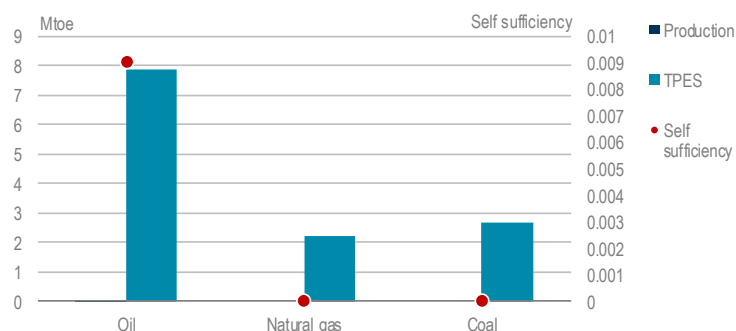
INTENSITY



	Finland	IEA average
TPES/Capita (Mtoe/Million)	5.93	4.44
Electricity consumption/Capita (MWh/capita)	15.05	8.71
CO ₂ emission/Capita (tCO ₂)	7.68	9.88

Energy security

PRODUCTION AND SELF SUFFICIENCY 2015



FUEL	NET IMPORTS*	IMPORT/EXPORT COUNTRY
Crude Oil	10.9 Mt (import dependency: 100%)	Russian Federation (83%) Norway (5.7%)
Oil Products	-1.5 Mt	Sweden (23.9%) Netherlands (16.9%)
Natural gas	2.7 bcm (import dependency: 100%)	Russian Federation (100%)
Coal	3.5 Mt (import dependency: 100%)	Russia (62.6%) Canada (14.6%)
ELECTRICITY		
Imports	21.5 TWh	Sweden (80.9%)
Exports	5.1 TWh	Estonia (98.3%)

*negative numbers mean net exports

Source: IEA energy balances 2017