

Switzerland - Energy System Overview



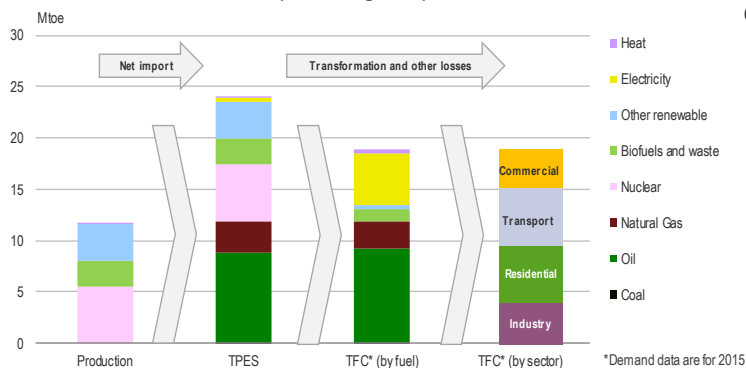
General information

Switzerland		
Country size	40 000 km ²	26th compared to IEA countries
Population (2016)	8.4 million	0.7% of IEA population
GDP (2016)	453 billion USD 2010 prices and PPPs	* PPP = Purchasing Power Parities

Energy system transformation

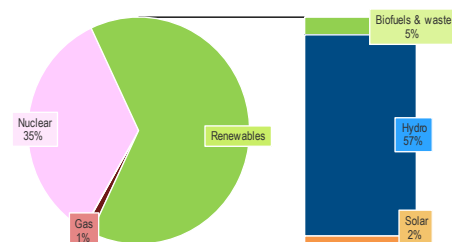
SUPPLY AND DEMAND 2016

TPES: 23.9 Mtoe, 26% renewables (IEA average 10%)



ELECTRICITY GENERATION: 61 TWh

64% renewables (IEA average: 24%)

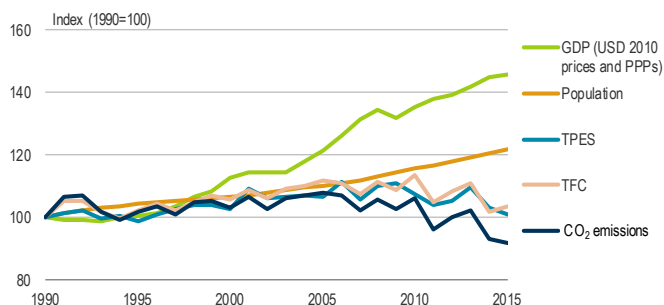


Fuel shares compared to IEA average

Fuel	TPES (%)	IEA average* (%)	IEA range (%)	Electricity (%)	IEA average (%)	IEA range (%)
Coal	0	17	0-69	0	28	0-84
Oil	37	36	7-58	0	2	0-10
Gas	13	27	2-40	1	27	1-51
Hydro	12	2	0-43	57	13	0-96
Nuclear	23	10	0-44	35	19	0-73
Biofuels	11	6	2-27	5	3	0-26
Wind	0	1	0-7	0	6	0-42
Geothermal	2	1	0-23	0	0	0-18
Solar	1	1	0-3	2	2	0-13

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

KEY ENERGY INDICATOR DEVELOPMENT, 1990-2015



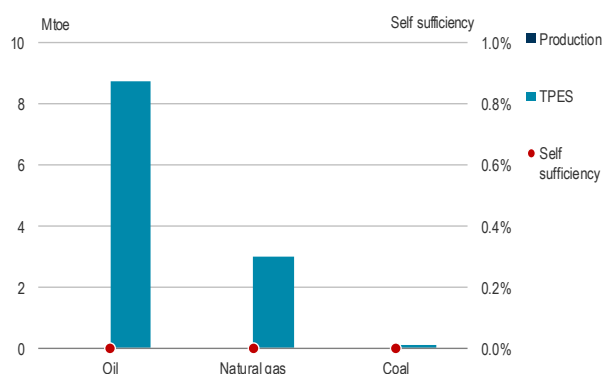
ENERGY AND CARBON INTENSITY (2016)

	Switzerland	IEA average
TPES per capita (toe/cap)	2.86	4.42
Electricity consumption per capita (MWh/cap)	7.47	8.69
Emissions* per capita (tCO ₂ /cap)	4.51	9.88
Energy intensity (TPES) (Mtoe/USD PPP million)	53	96
Emission* intensity (tCO ₂ / USD PPP million)	84	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	3 Mt	Nigeria (29.9%)
Exports	0 Mt	-
Oil Products		
Imports	7.7 Mt	Germany (54%)
Exports	0.5 Mt	Germany (38.3%)
Natural gas		
Imports	3.7 bcm	Germany (74.8%)
Exports	0 bcm	-
Coal		
Imports	0.2 Mt	Germany (75.7%)
Exports	0 Mt	-
ELECTRICITY		
Imports	34 TWh	Germany (48.2%)
Exports	35.1 TWh	Italy (75.5%)

Note: 2016 data are estimated

Source: IEA World Energy Balances 2017