



**ΚΑΠΕ
CRRES**

CENTRE FOR RENEWABLE
ENERGY SOURCES AND SAVING

Programme Operator



Programme Area:

«GR03 - Renewable Energy»

**THE PROFILE OF ICELAND AND LIECHTENSTEIN THROUGH EEA
GRANTS & ENERGY**

Athens,
11th September 2014

Section

Facts about Iceland

General Information

Total area: 103,000 km²

Population: 325,671

Capital City: Reykjavík

Only 23% of the total surface area is vegetated

Located on top of the boundary between the Eurasian and North American tectonic plates → volcanoes and geysers.

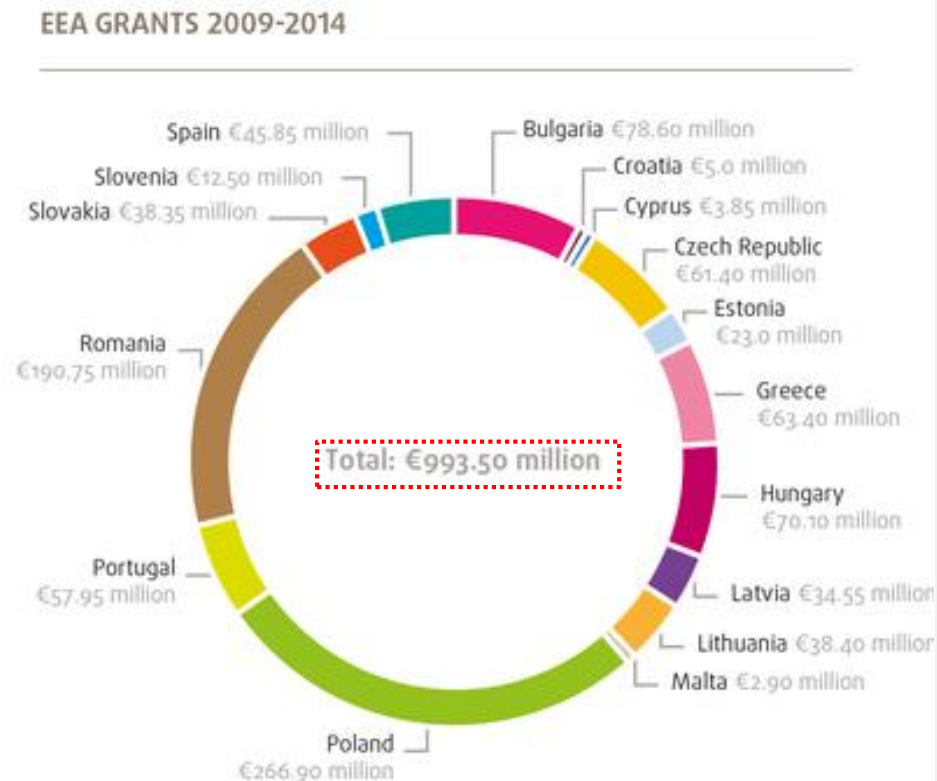
In 2011 Iceland was the 2nd country in the world in the strength of its democratic institutions.

Economic crisis hit the country in 2008, but economic growth returned in 2012.



The role of Iceland through EEA

- For the period 2009-2014, €993.5 is the foreseen budget for EEA Grants.
- Iceland provides close to 5 %.



Section

Energy profile of Iceland

Iceland - Energy Strategy [1/2]

- ✿ Blessed with an abundance of renewable energy resources
- ✿ Total potential of renewables in Iceland exceeds 50 TWh/year - only 17% used currently.
- ✿ ~85 % of the produced energy is renewable (mainly hydro and geothermal in the second place)
- ✿ Almost all of the non-renewable energy used in Iceland is fuel used in order to cover transportation needs.

Iceland - Energy Strategy [2/2]

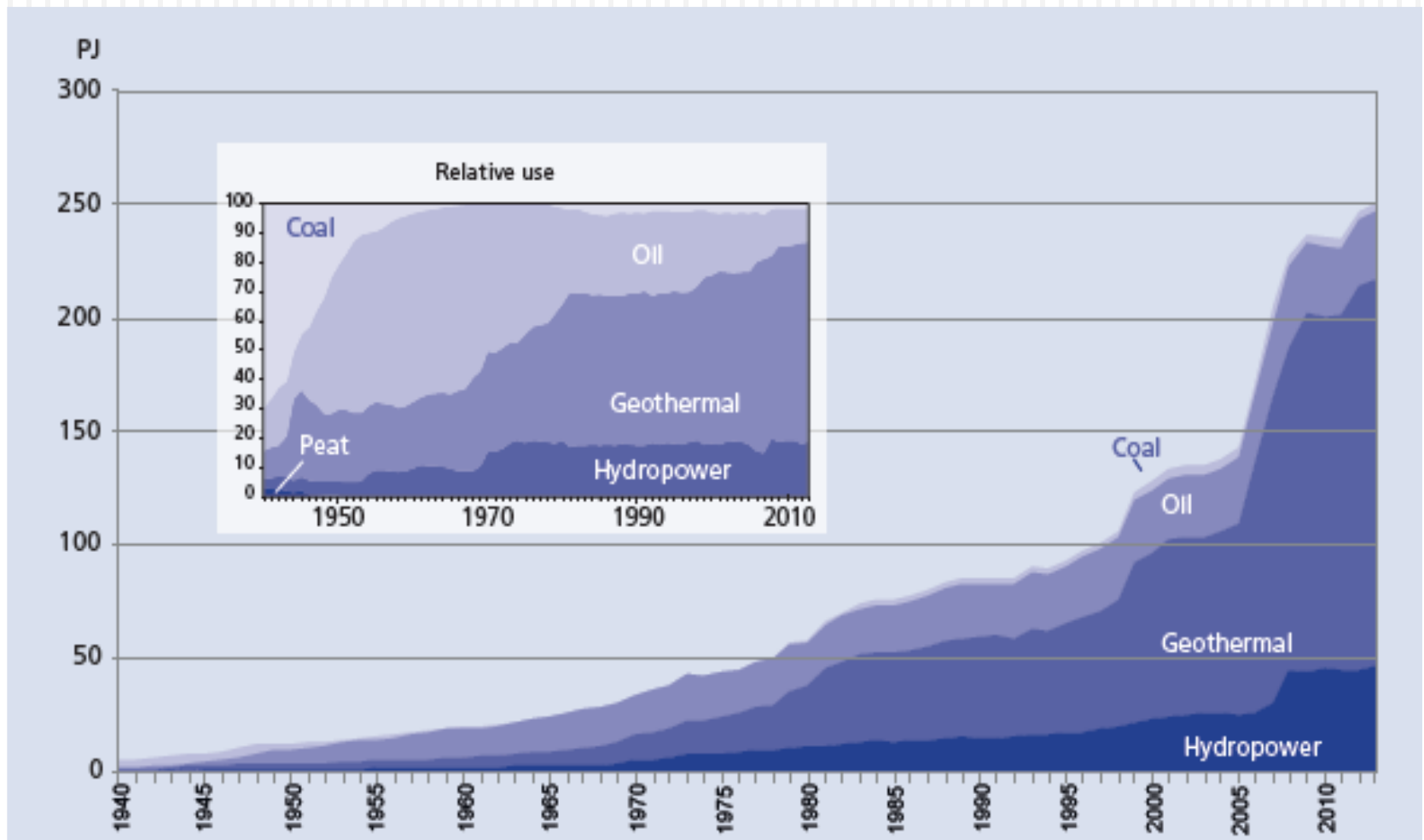
✚ The main axes of development for Iceland are summarized below:

- ➡ Conservation of nature
- ➡ Reduction of greenhouse gas emissions
- ➡ Supporting the growth of the industrial sector using renewable energy
- ➡ Introducing more renewables in the transportation sector and increasing hybrid/electric/hydrogen vehicles.

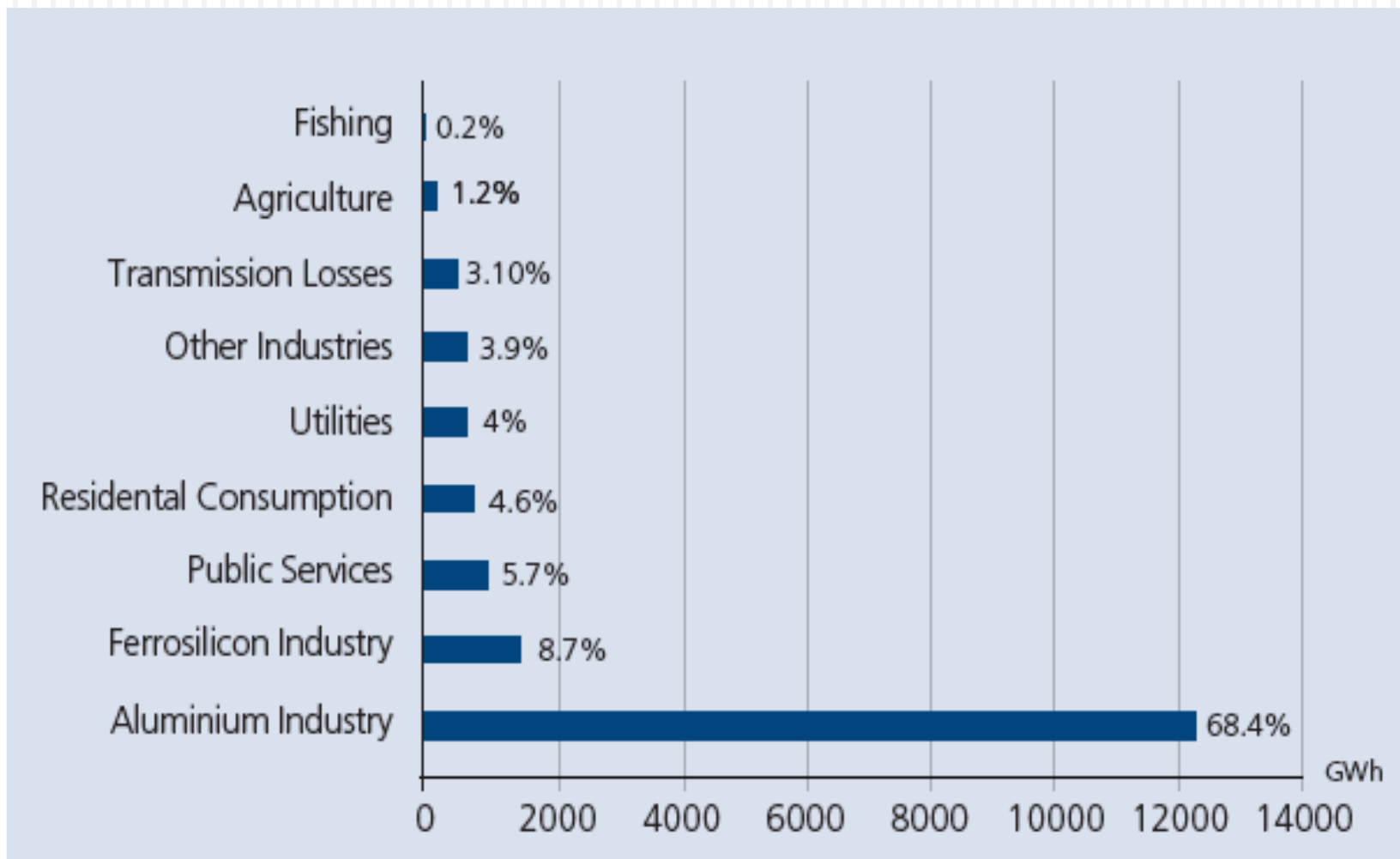
Iceland - Energy Statistics [1/4]

	Amount	%
Electricity Generation		
Hydro	12863 GWh	71
Geothermal	5245 GWh	29
Fuel	3 GWh	0
Wind	5 GWh	0
TOTAL	18166 GWh	100
Installed capacity in power plants		
Hydro	1986 MW	71.8
Geothermal	665 MW	24
Fuel	114 MW	4.1
Wind	2 MW	0.1
TOTAL	2767 MW	100

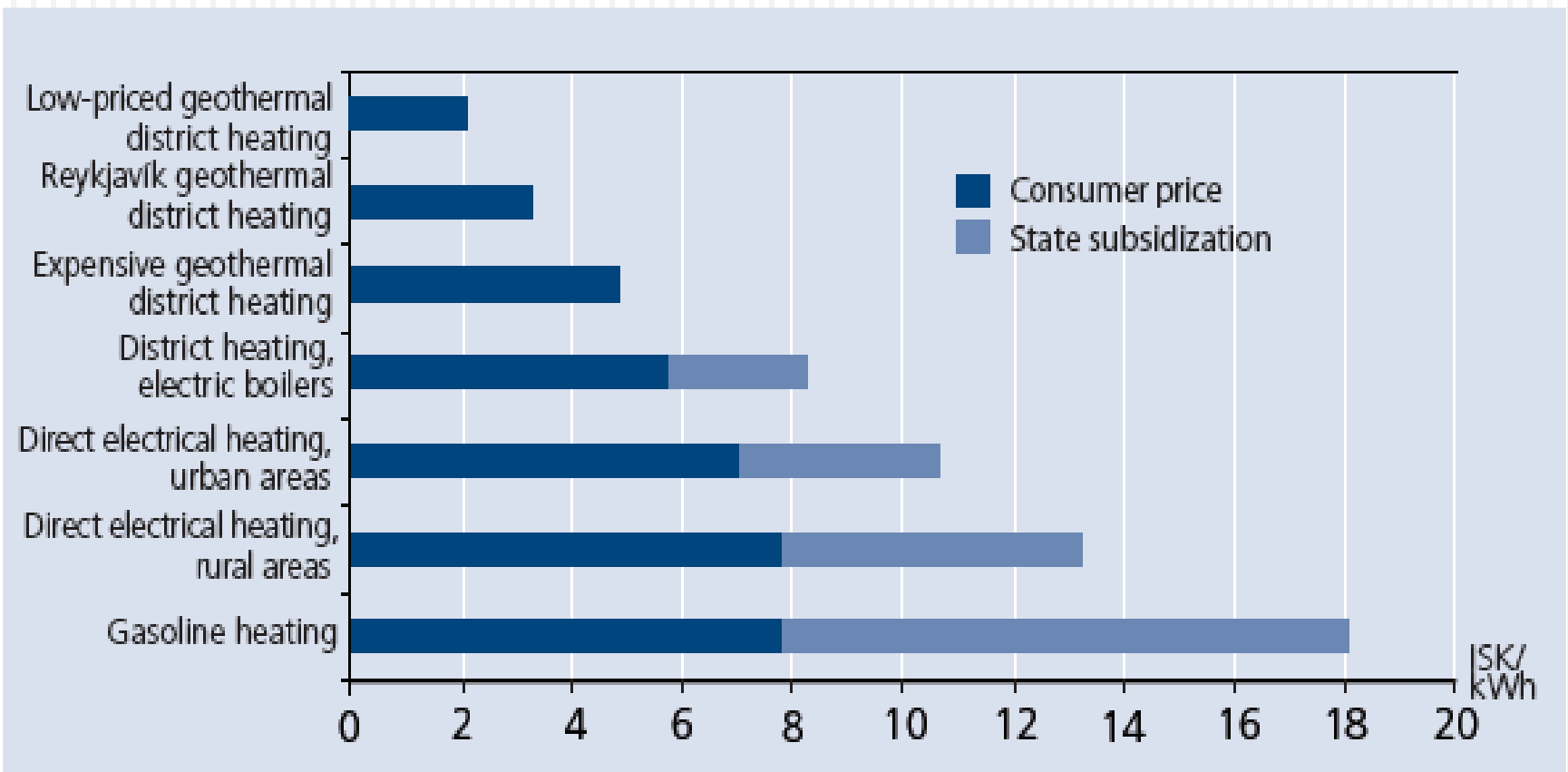
Iceland - Energy Statistics [2/4]



Iceland - Energy Statistics [3/4]



Iceland - Energy Statistics [4/4]



Section

RES market players of Iceland

Iceland - Key RES Actors



Section

Facts about Liechtenstein

Liechtenstein - General Information

Total area: ~160 km²

Population: ~35,000

Capital City: Vaduz

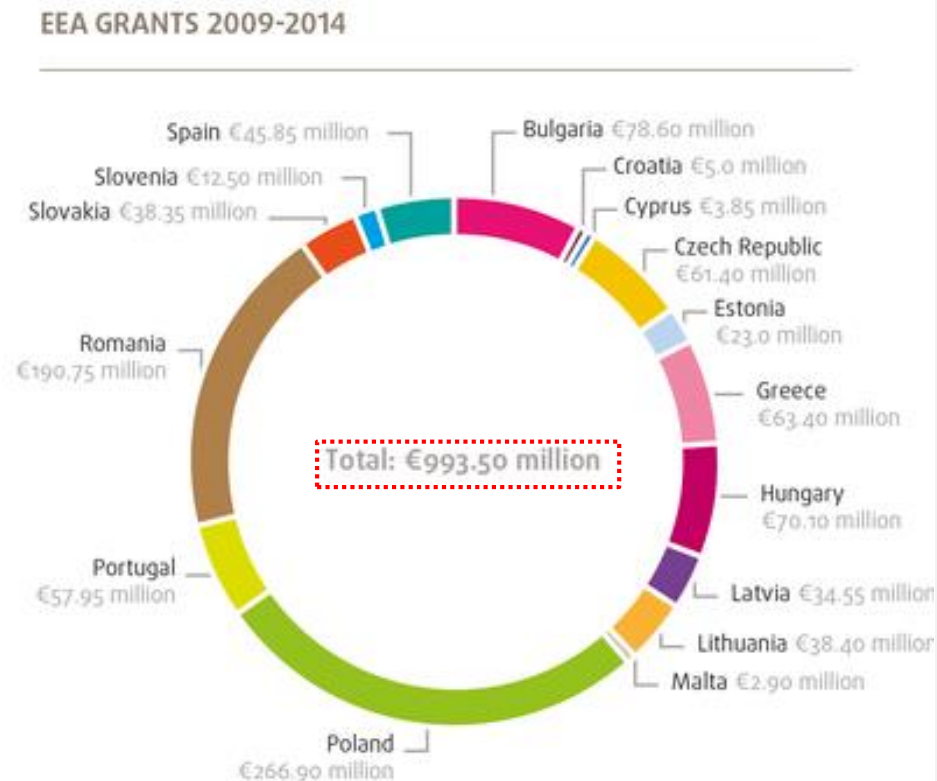
Highest gross domestic product per person in the world when adjusted by purchasing power parity

Very low unemployment rate at 1.5%.



The role of Liechtenstein through EEA

- For the period 2009-2014, €993.5 is the foreseen budget for EEA Grants.
- Liechtenstein provides just over 1 %.



Section

Energy profile of Liechtenstein

Liechtenstein - Energy Strategy [1/2]

✚ Energy Strategy 2020:

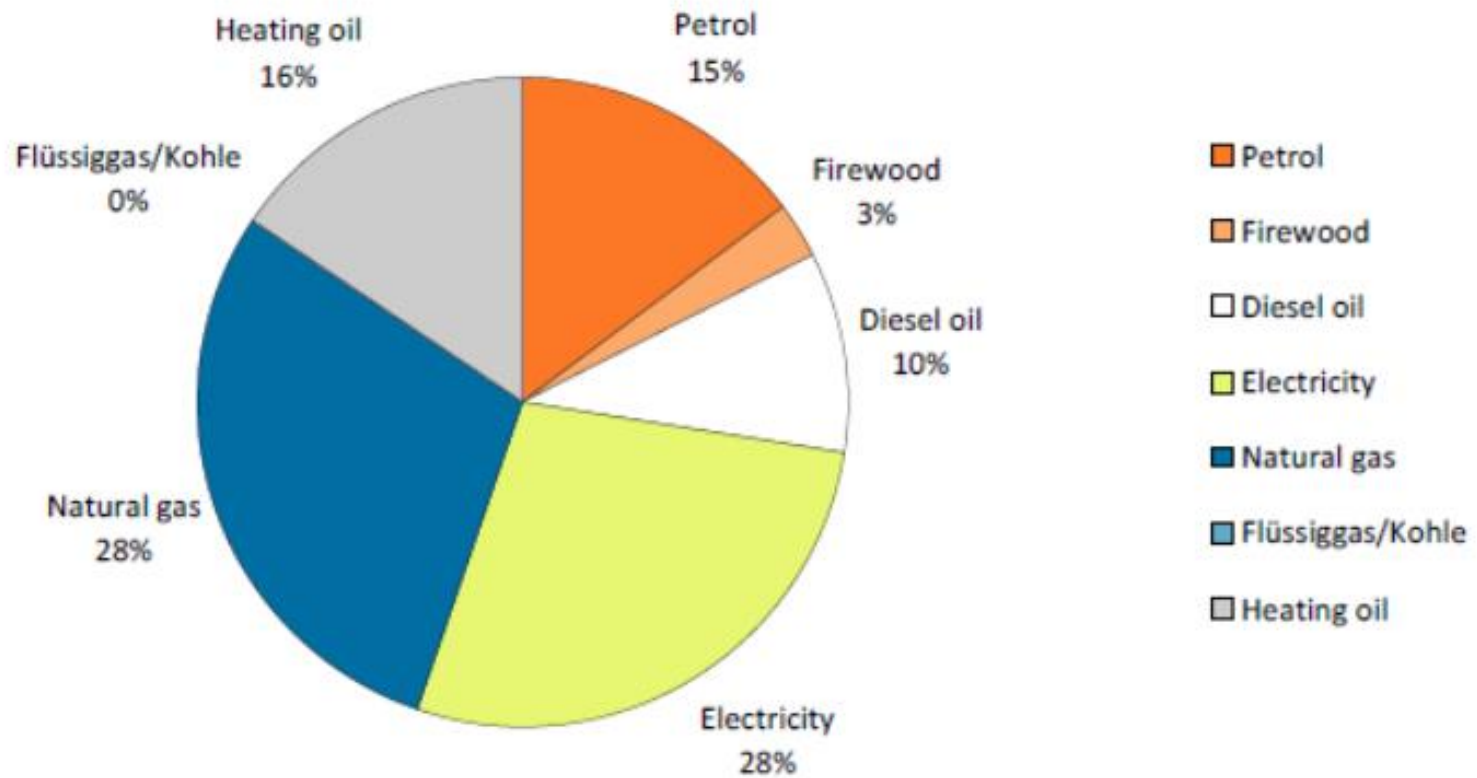
- ➡ 20 % increase of energy efficiency 20 % (*)
- ➡ 20 % increase of the share of national renewable energy sources (*)
- ➡ 20 % decrease of greenhouse gas emissions (*)

*compared to 1990.

Liechtenstein - Energy Strategy [2/2]

- ✚ Promotion of the use of solar energy for the generation of electricity by granting a feed-in tariff (for ≤ 40 kW 0.12 €/kWh for new installations)
- ✚ Promotion of the actual construction of the installation through an additional support mechanism
 - ➡ PV-installations ≤ 40 kW \rightarrow € 538/installed kW
 - ➡ Installations > 40 kW \rightarrow up to 166.500 €

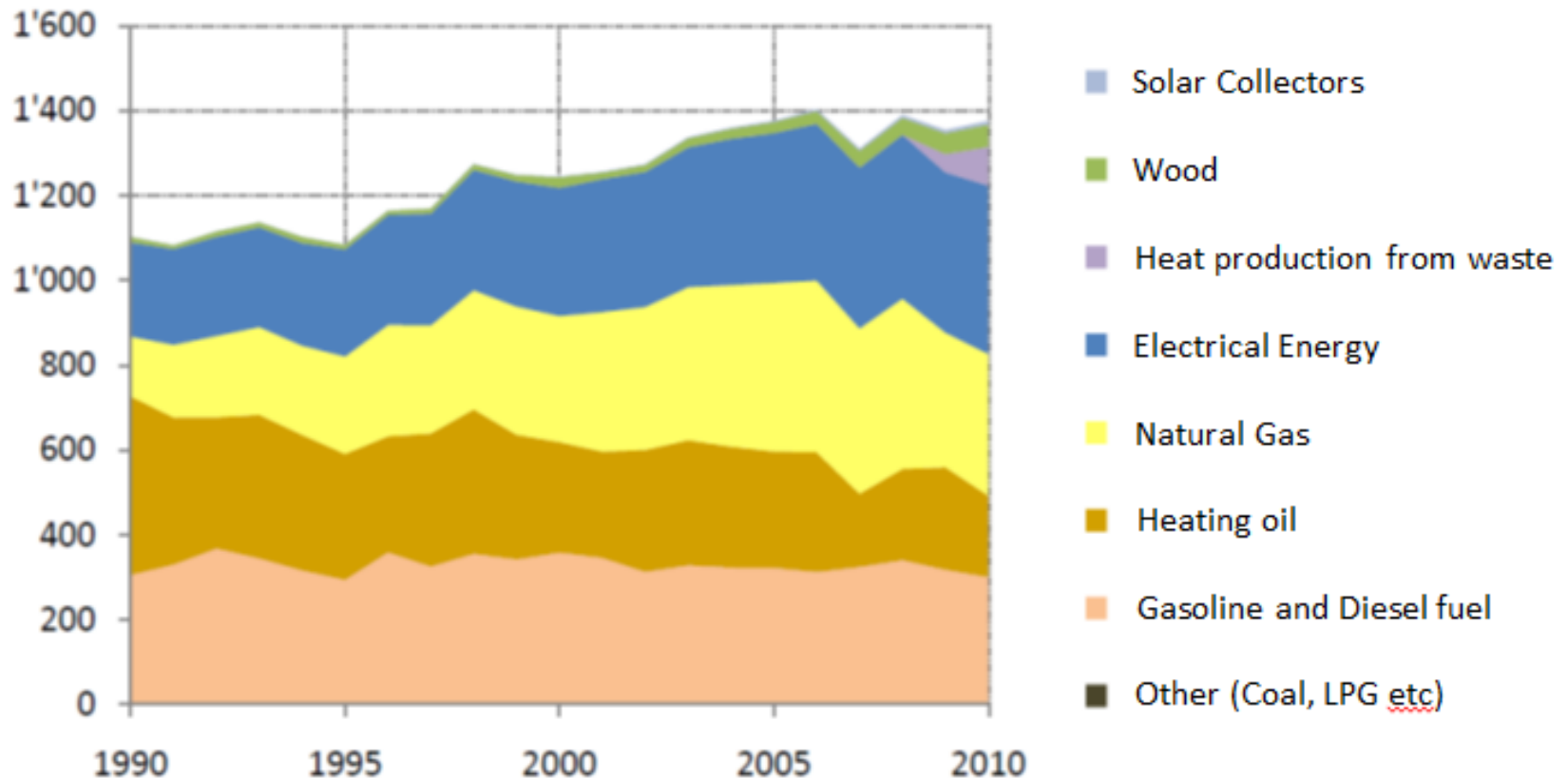
Liechtenstein - Energy Statistics [1/2]



Energy Consumption by energy source (2008)

Liechtenstein - Energy Statistics [2/2]

Evolution of Final Energy Consumption (GWh)



Thank you for your attention...