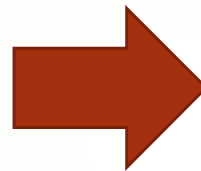



New EU Energy and Climate Framework for 2030 – Challenges for Poland

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- ▶ **In May 2004**, Poland became a Member State of the European Union.





In 2008 the European Commission proposed binding legislation to implement the 20-20-20 targets

- reduce greenhouse gas emissions by 20% compared to the level of emissions from 1990;
- increase the share of renewable energy in final energy consumption to 20%;
- increase energy efficiency to 20%, compared to the predictions for 2020;

The Conference of the Parties to the Climate Convention in 2015 in Paris (COP21)



The Paris Agreement for Climate Change, <https://www.youtube.com/watch?v=l-4F5MJEEqs>.



At a meeting on 23-24 October 2014, the European Council agreed on the 2030 climate and energy framework for the EU

- a binding EU target of at least 40% less greenhouse gas emissions by 2030, compared to 1990
- a target, binding at EU level, of at least 27% renewable energy consumption in 2030
- an indicative target at EU level of at least 27% improvement in energy efficiency in 2030



The targets for renewables and energy efficiency were revised upwards in 2018.

Key targets for 2030:

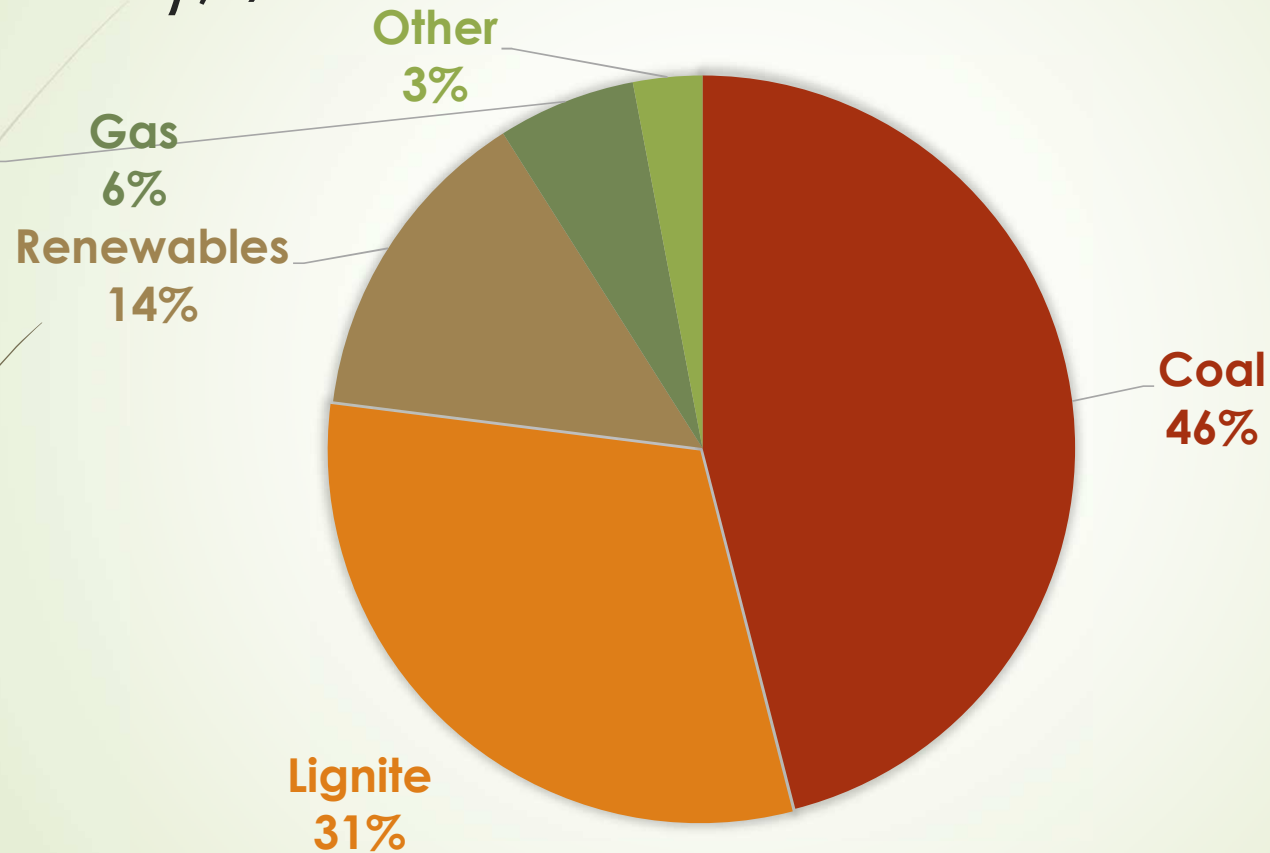
- a binding EU target of at least 40% less greenhouse gas emissions by 2030, compared to 1990
- a target, binding at EU level, of at least **32%** renewable energy consumption in 2030
- an indicative target at EU level of at least **32.5%** improvement in energy efficiency in 2030



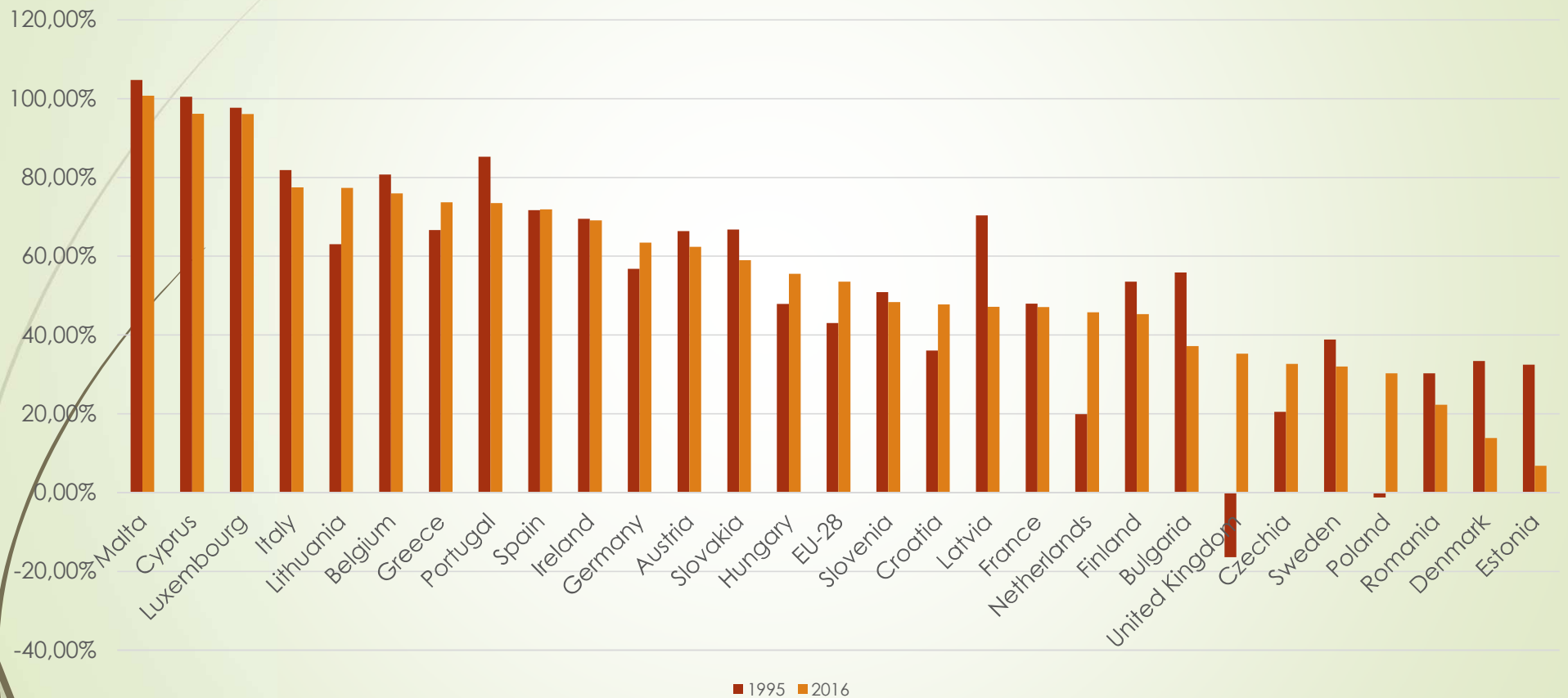
The draft National Energy and Climate Plan (NECP), POLAND

Renewable Energy share to 2030	Greenhouse gas target 2030	Energy efficiency
21%	- 7% compared to 2005	23% with respect to the primary energy consumption as forecast by PRIMES 2007
Reduction of the share of coal in electricity production to 60 % in 2030 and further decreasing trend until 2040		

Electricity production structure in Poland (2017), % share

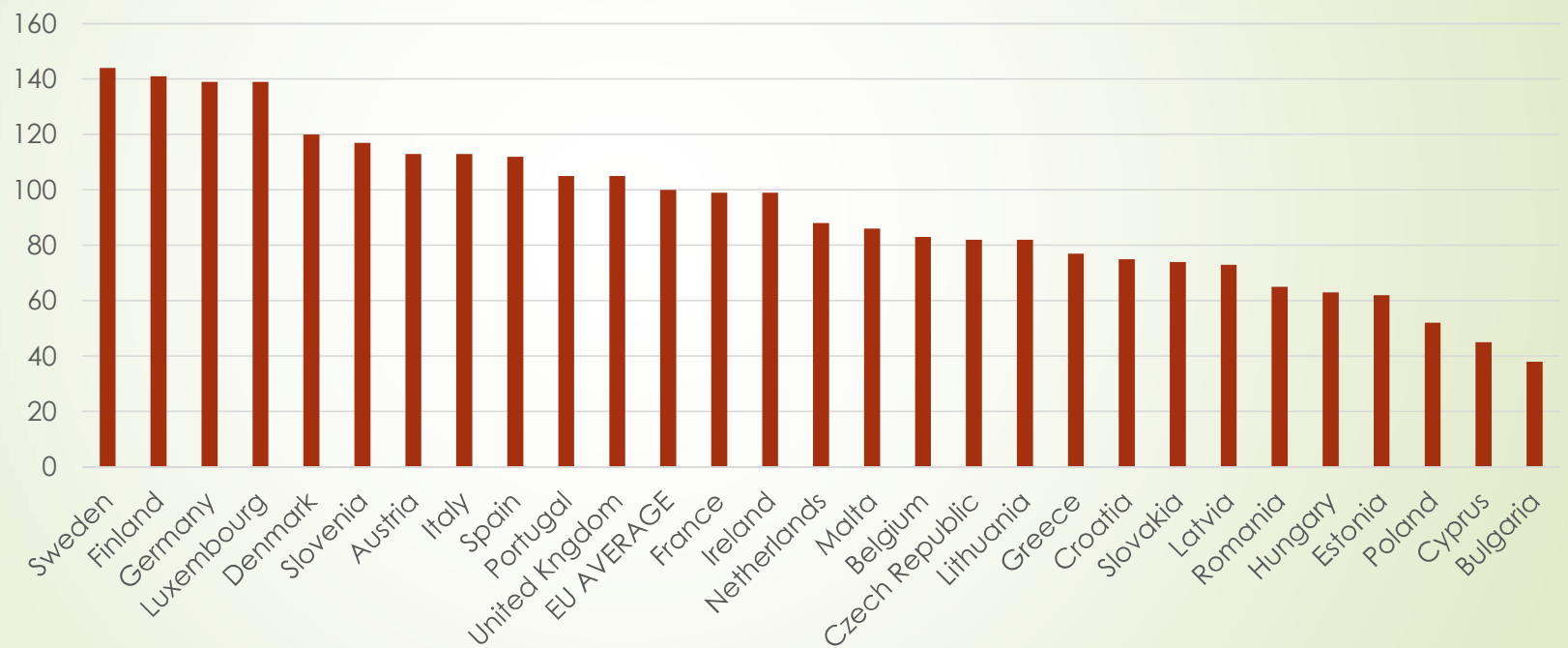


Import Dependency – All Fuels (%)



European Commission, EU Energy in figures, Statistical Pocketbook 2018, Luxembourg 2018: 66.


Eco-innovation index, 2017



European Commission, The eco-innovation scoreboard and the eco-innovation index,
https://ec.europa.eu/environment/ecoap/indicators/index_en

Achieving the goals of the climate and energy package for 2020 by Poland





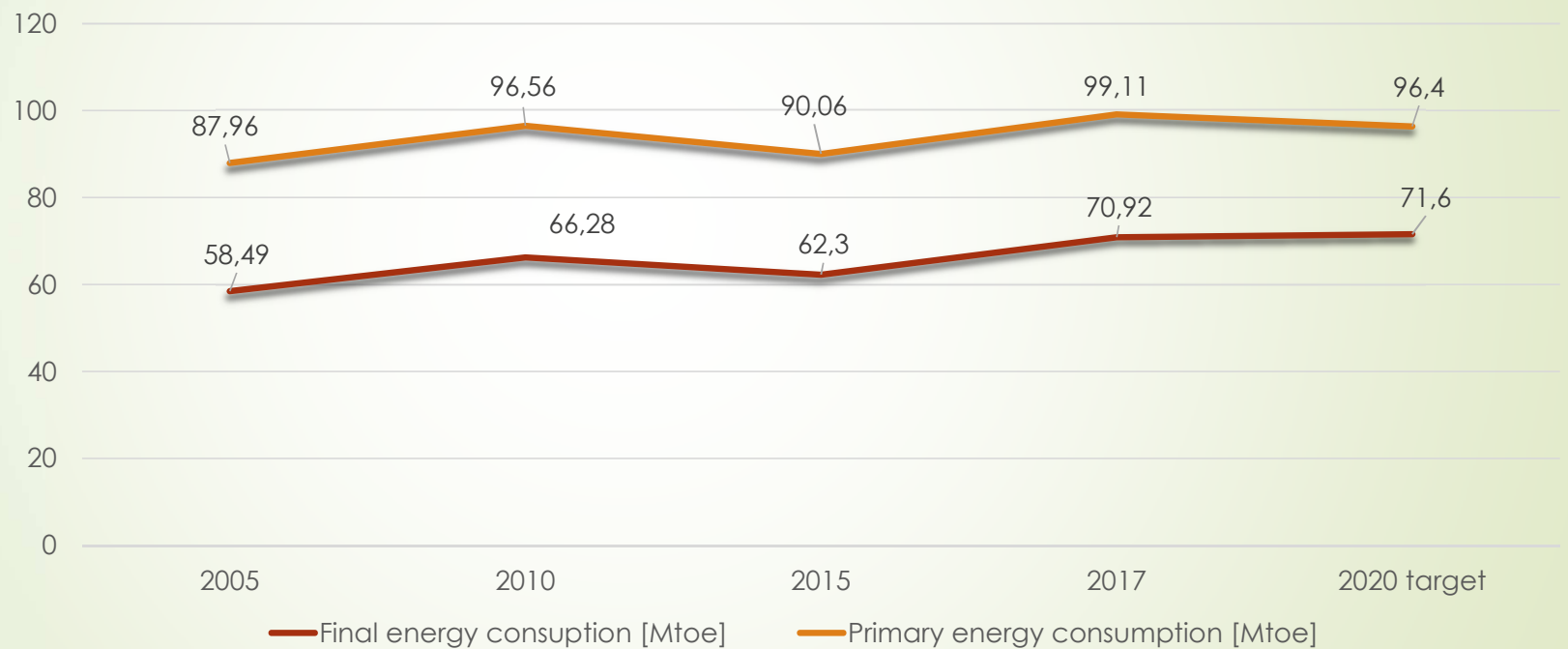
Greenhouse gas (GHG) emissions target:

- ▶ **National greenhouse gas (GHG) emissions target: +14% in 2020 compared to 2005 (in non-ETS sectors):**

In 2017 non-ETS emissions were 3 percentage points higher than the annual target according to the preliminary data.

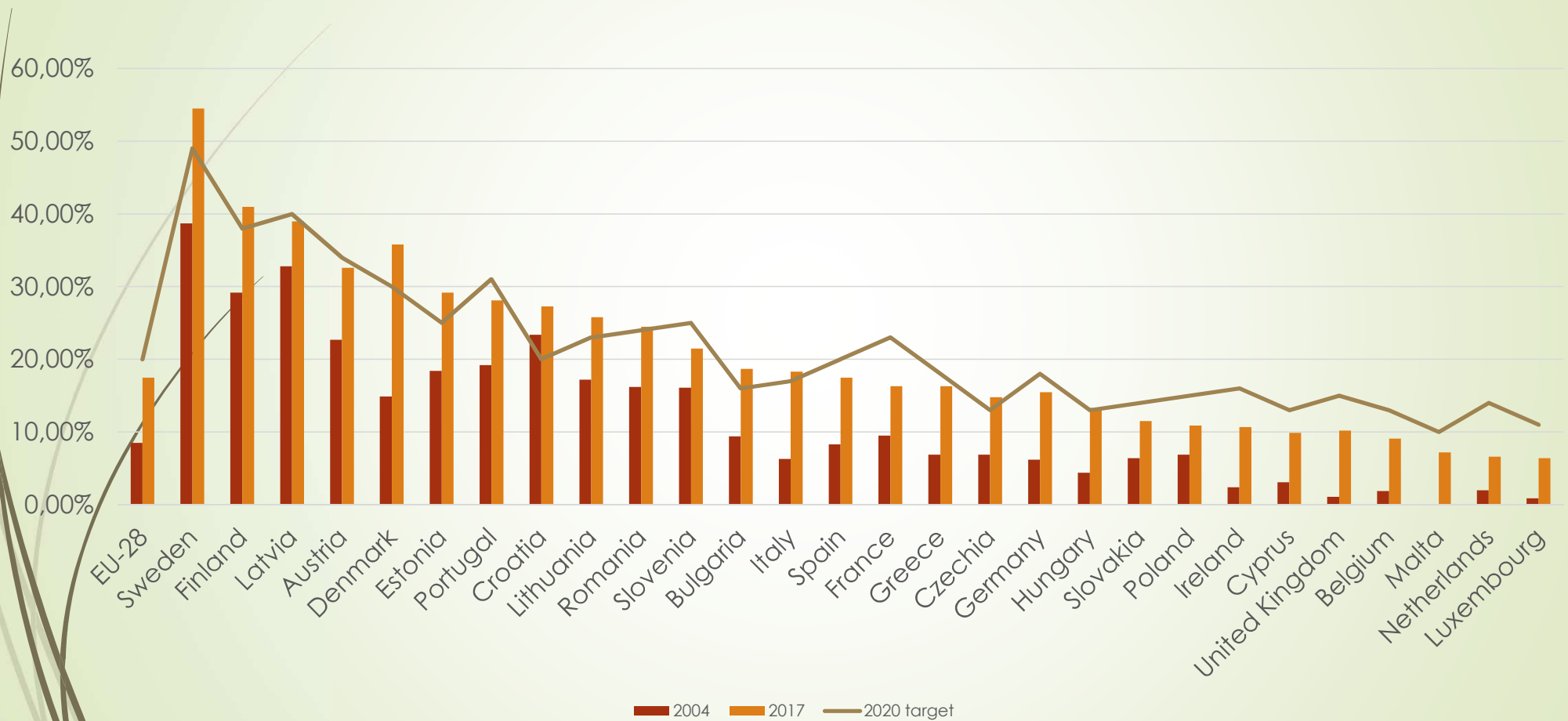
According to the latest own national projections, Poland is still expected to achieve its 2020 target.

Energy efficiency: reduction of energy consumption



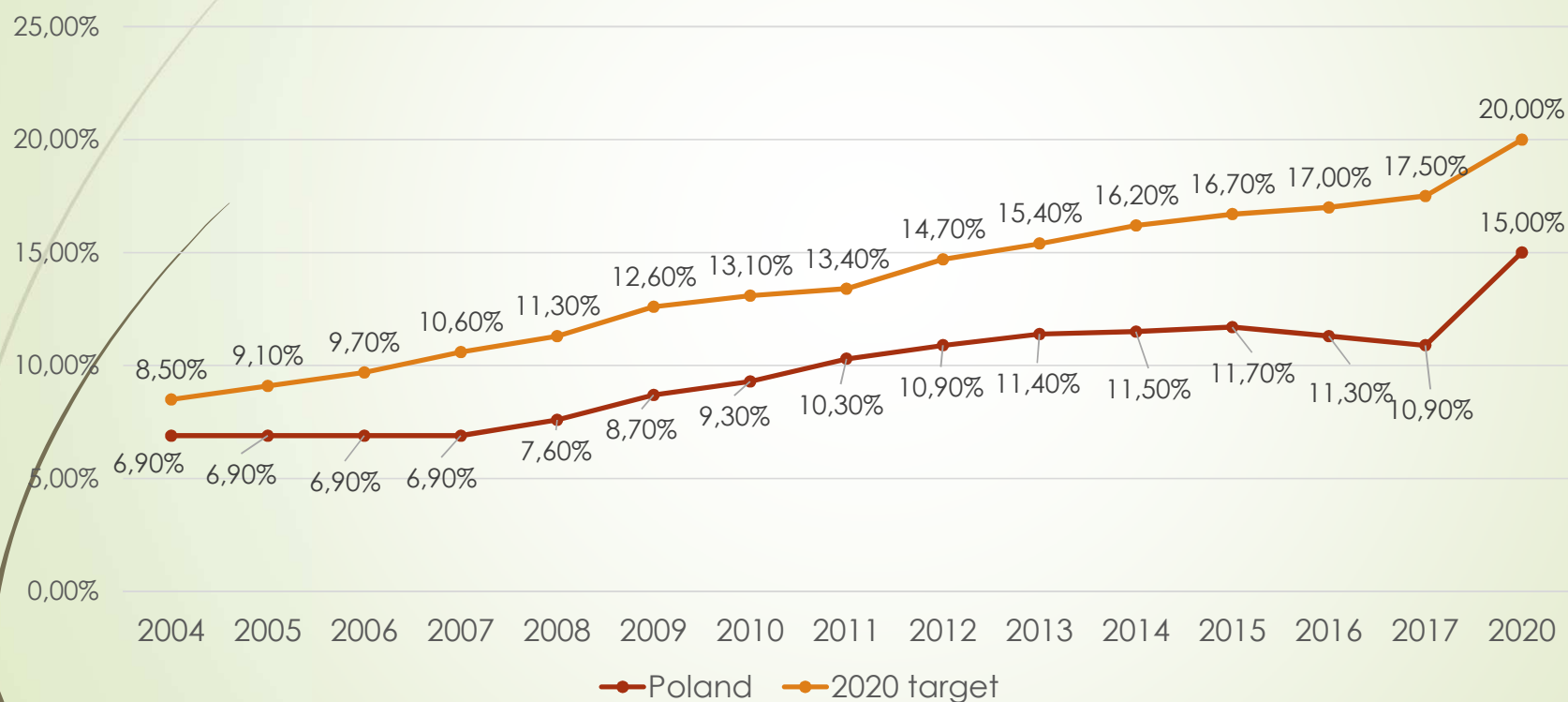
Eurostat, Final Energy consumption, Primary Energy consumption, https://ec.europa.eu/eurostat/tgm/table.do?tab=table&init=1&language=en&pcode=t2020_33&plugin=1, https://ec.europa.eu/eurostat/tgm/table.do?tab=table&init=1&language=en&pcode=t2020_34&plugin=1.

Share of Energy from renewable sources in gross final consumption of Energy (%), 2004 and 2017



Eurostat, Share of Energy from renewable sources in gross final consumption of Energy, 2004 and 2017 (%), https://ec.europa.eu/eurostat/statistics-explained/images/4/4d/Share_of_energy_from_renewable_sources_in_gross_final_consumption_of_energy%2C_2004-2017_%28%25%29.png

Share of Energy from renewable sources in gross final consumption of Energy (%), Poland, 2004 - 2017



Eurostat, Share of Energy from renewable sources in gross final consumption of Energy, 2004 and 2017 (%), https://ec.europa.eu/eurostat/statistics-explained/images/4/4d/Share_of_energy_from_renewable_sources_in_gross_final_consumption_of_energy%2C_2004-2017_%28%25%29.png



References

- ▶ European Commission, EU Energy in figures, Statistical Pocketbook 2018, Luxembourg 2018.
- ▶ European Commission, The eco-innovation scoreboard and the eco-innovation index, https://ec.europa.eu/environment/ecoap/indicators/index_en.
- ▶ Eurostat, Final Energy consumption, Primary Energy consumption, https://ec.europa.eu/eurostat/tgm/table.do?tab=table&init=1&language=en&pcode=t2020_33&plugin=1, https://ec.europa.eu/eurostat/tgm/table.do?tab=table&init=1&language=en&pcode=t2020_34&plugin=1.
- ▶ Eurostat, Share of Energy from renewable sources in gross final consumption of Energy, 2004 and 2017 (%), https://ec.europa.eu/eurostat/statistics-explained/images/4/4d/Share_of_energy_from_renewable_sources_in_gross_final_consumption_of_energy%2C_2004-2017_%28%25%29.png
- ▶ The Draft National Energy and Climate Plan – version 3.1 of 4 January 2019.
- ▶ The Paris Agreement for Climate Change, <https://www.youtube.com/watch?v=l-4F5MJEEq8>.



THANK YOU FOR YOUR ATTENTION