



Integrated National Energy and Climate Plan of the Slovak Republic (NECP)

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CLEAN ENERGY FOR ALL EUROPEANS PACKAGE

| | European Commission Proposal | European Parliament Adoption | Council Adoption | Official Journal Publication |
|--|------------------------------|------------------------------|------------------|--|
| Energy Performance in Buildings | 30/11/2016 | 17/04/2018 | 14/05/2018 | 19/06/2018 Directive (EU) 2018/844 |
| Governance of the Energy Union and Climate Action | 30/11/2016 | 13/11/2018 | 04/12/2018 | 21/12/2018 Regulation (EU) 2018/1999 |
| Renewable Energy | 30/11/2016 | 13/11/2018 | 04/12/2008 | 21/12/2018 Directive (EU) 2018/2001 |
| Energy Efficiency | 30/11/2016 | 13/11/2018 | 04/12/2018 | 21/12/2018 Directive (EU) 2018/2002 |
| Electricity Regulation | 30/11/2016 | 26/03/2019 | 22/05/2019 | 14/06/2019 Regulation (EU) 2019/943 |
| Electricity Directive | 30/11/2016 | 26/03/2019 | 22/05/2019 | 14/06/2019 Directive (EU) 2019/944 |
| Risk Preparedness Regulation | 30/11/2016 | 26/03/2019 | 22/05/2019 | 14/06/2019 Regulation (EU) 2019/941 |
| ACER (Regulation) | 30/11/2016 | 26/03/2019 | 22/05/2019 | 14/06/2019 Regulation (EU) 2019/942 |

GOVERNANCE OF THE ENERGY UNION AND CLIMATE ACTION (1)

- represents a comprehensive management system within the Energy Union
- The Regulation applies to the five dimensions of the Energy Union, which are closely related and mutually reinforcing:
 - (a) energy security;
 - (b) internal energy market;
 - (c) energy efficiency;
 - (d) decarbonisation; and
 - (e) research, innovation and competitiveness.
- unifies planning and monitoring within the European Union countries

GOVERNANCE OF THE ENERGY UNION AND CLIMATE ACTION (2)

- the obligation for Member States (MS) to notify the NECP to the Commission (EC)
 - until 31 DEC 2019 for the period 2021 - 2030
 - to 01 JAN 2029 for the period 2031 - 2040 and then every 10 years
- the obligation for MS to submit to the Commission an Integrated National Energy and Climate Report on progress in all five dimensions of the Energy Union
 - until 15 MAR 2023 and then every two years
- The governance mechanism includes a structured and iterative process between the Commission and the MS for the purpose of finalizing and subsequently implementing the plans, including regional cooperation and corresponding Commission actions.

PREPARATION OF THE FINAL NECP TEXT IN 2019

- Close cooperation with **Ministry of Environment** and other involved organisations
- PUBLIC CONSULTATION – multiple steps in 2019:
 - JAN - FEB – comments to the Draft of NECP (web-published)
 - OCT - NOV – Inter-institutional Commenting (web-based Slov-Lex application)
 - NOV – DEC – comments within SEA process (environmental impact)
- Continual – working meetings - representatives of ministries, energy and industrial companies as well as public (NGO) was involved
- REGIONAL COOPERATION – meetings in Germany and Austria
– mail exchange info Poland, Czech Republic
- Approval by The Slovak Government and submission to COM – DEC 2019

UPDATES AND CHANGES IN PROCESS OF NECP PREPARATION

- New Environmental strategy 2030 – adopted in FEB 2019
- Transformation of coal region horná Nitra – GOV resolution DEC 2018,
Action plan for transformation – GOV resolution in July 2019
phase out of subsidies for electricity production based on local coal confirmed not later than 2023
- New EU regulations and directives: electricity, ACER, Risk preparedness adopted in the mid of 2019
- EC recommendations JUN2019
- Public consultations and consultations with stakeholders
- Regional cooperation

EUROPEAN UNION AND NATIONAL SLOVAK GOALS FOR 2030 (NECP)

| | EÚ 2020 | EÚ 2030 | SR 2020 (expected) | SR 2030 |
|----------------------------------|---------|---------|-----------------------|---------|
| GHG Emissions (ref. 1990) | - 20 % | - 40 % | - | - |
| ETS Emissions (ref. 2005) | - 21 % | - 43 % | - | - |
| non-ETS Emissions (ref. 2005) | - 10 % | - 30 % | + 13 % | - 20 % |
| RES Share | 20 % | 32 % | 14 % | 19.2 % |
| Energy efficiency | 20 % | 32,5 % | 20 % | 30,3 % |
| Interconnections electricity | 10 % | 15 % | 56 % | 52 % |

RES SHARE (NECP)

| | 2020 | 2022 | 2025 | 2027 | 2030 |
|---|------|------|------|------|------|
| Renewable contribution as a share of energy from renewable sources in gross final consumption of energy in 2030 and indicative trajectory (%) | 14,0 | 15,0 | 16,4 | 17,8 | 19,2 |
| RES – Heating & Cooling share (%) | 12,5 | 14,3 | 16,1 | 17,5 | 19,0 |
| RES - Electricity share (%) | 22,0 | 23,4 | 24,8 | 26,4 | 27,3 |
| RES - Transport share (%) | 10,0 | 9,2 | 9,8 | 10,7 | 14,0 |

The EUCO2030 model indicates RES share 19 % for SK in 2030. We have tried to increase the RES share to 20 %, but proposed utilization of geothermal energy is not technically possible within next few years and public consultation result was in favour of 19,2 % goal.

SK has high share of nuclear in electricity production and high share of gas in heat production, which produce low CO₂ emissions.

ENERGY EFFICIENCY (NECP)

| | 2018 | 2030 | UNITS |
|---|---------------|---------------|--------------|
| National contribution for energy efficiency: - Primary energy consumption in 2030 - Final energy consumption in 2030 | 16,1 11,12 | 15,7 10,27 | Mtoe Mtoe |
| Cumulative amount of energy savings to be achieved over the period 2021-2030 under Article 7(1)(b) on energy saving obligations of Directive 2012/27/EU | 52 181 | 47 877,5 | GWh |

During NECP elaboration SK used the scenario that leads to the highest energy efficiency available in the model (30,3%).

Energy efficiency measures in the different sectors are listed in Annex 2 of NECP.

The energy efficiency first principle has been taken into account in the development of energy efficiency measures, especially in voluntary agreements. The measures put the main emphasis on reducing energy consumption.

SECURITY OF SUPPLIES (NECP)

Slovakia is currently an electricity importer (5 - 10 % of annual consumption); after completion of NPP Mochovce Block 3 and 4 will become a net exporter.

By 2021 construction of 2 x 400 kV lines with HU and strengthening of the electricity interconnection with the CZ.

SK gas network allows reverse flow from CZ and AT, new PL – SK interconnection will be part of the North - South Gas Corridor (part of network connecting LNG terminal at Świnoujście to the planned Croatian LNG terminal).

At the European level, SK discusses the issue of an alternative nuclear fuel supplier within the framework of the Euratom Supply Agency (ESA).

Reports on the results of monitoring the security of electricity and natural gas supply are published annually on the website of the Ministry of Economy.

INTERCONNECTIONS / MARKET INTEGRATION (NECP)

| | 2018 | 2030 | UNITS |
|--|------|------|-------|
| Level of electricity interconnectivity by 2030 | 43 | 52 | % |

Implementation of „Clean Energy for all Europeans Package“ (RES, EED, Internal Market, ACER) is in progress to harmonize national legislation.

RESEARCH & INNOVATION AND COMPETITIVNESS (NECP)

R&I will focus on new and renewable, environmentally acceptable energy sources, rationalizing energy consumption in all sectors of the economy and on energy distribution.

Attention will be given to exploration of geothermal energy sources to prepare way for their wider use in future.

MAIN CHALLENGES IN NECP IMPLEMENTATION

Very complex and very time consuming process of preparation, with no proper time available to fulfil all administrative steps in full.

NECP was intended as a strategic document with fixed goals for long term period (2021-2030).

However, we are facing a new situation now, the goals are going to be changed in order to meet

- the 2050 climate neutrality goal,
- actually considered increased greenhouse gases target in 2030 and
- recovery from the Covid-19 pandemic.

NEW CHALLENGES IN 2020

- EUROPEAN GREEN DEAL – introduced in December 2019
- EUROPEAN CLIMATE LAW – under preparation
- COVID-19 pandemic and subsequent RECOVERY PLAN



the need to update the NECP

„By **30 June 2023**, each Member State shall submit to the Commission a draft update of the latest notified NECP or shall provide the Commission with reasons justifying why the plan does not require updating.“ (Article 14)

May be an earlier update should be considered



Thank you
for your attention

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