



SHREC

Interreg Europe



European Union
European Regional
Development Fund

SLOVAKIA

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Slovakia



- Land area: 49,035 km²
- Mountainous: almost 80% is 720 m above sea level
- Population: 5.4 million
- Capital: Bratislava
- Geographical center of Europe

Slovakia



Energy data 2017



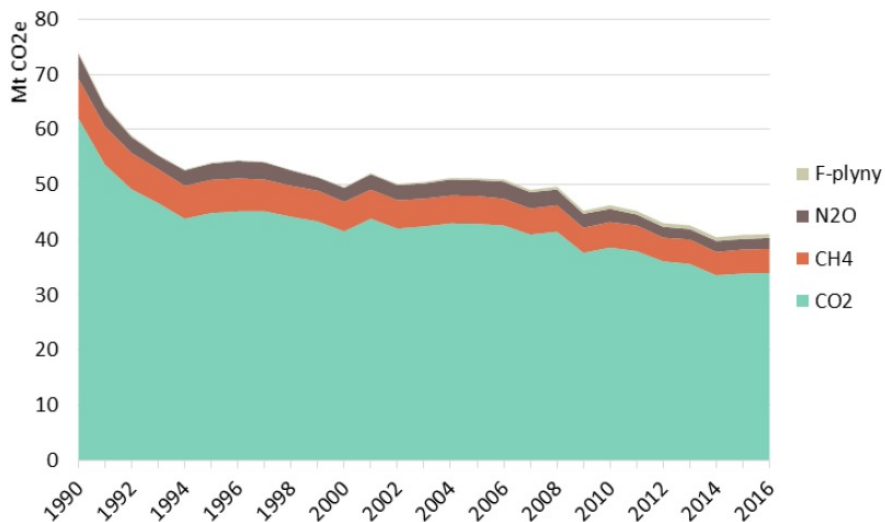
- Primary energy consumption **16,1 Mtoe**
- Final energy consumption **11,13 Mtoe**, biggest share of natural gas , oil and petroleum, electricity
- Share of RES : **11,5% (2017)** of gross final energy consumption (**2020 – 14%, 2023 – 15,1 , 2030 – 18%**)
- **Dominant RES – hydropower,**
- **2023** – coal mining in Slovakia will no longer be supported by state

Data of CO2 emissions

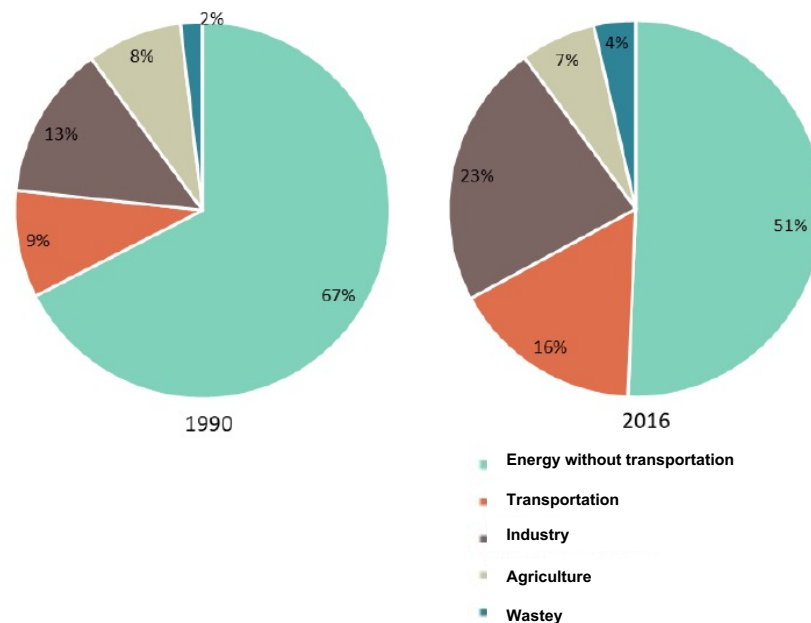
- from 1991 to 2017 GHG reduced by 25%

Goal for 2030 - CO2 reduction -12% compared to 2005

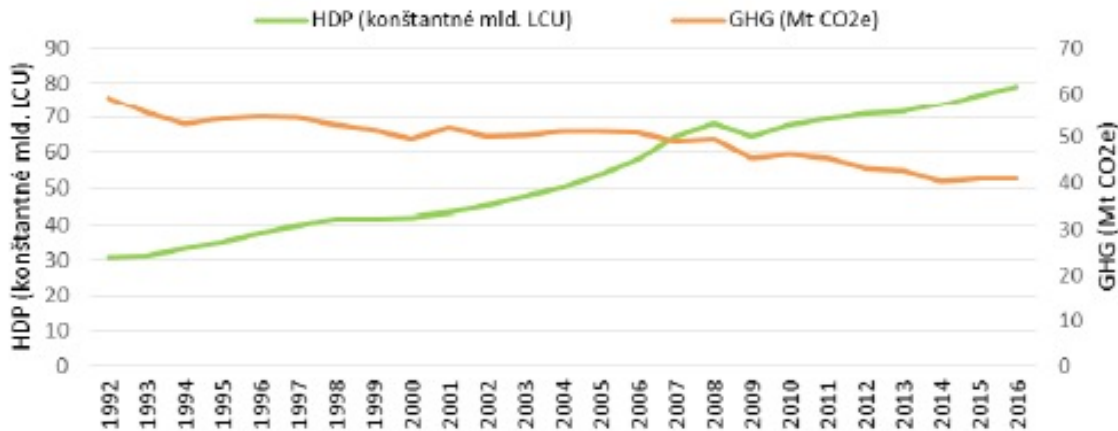
Emissions of GHG based on gas type



Emissions of GHG based on sector



GDP and emissions of GHG



Activities of SIEA



- Energy audits for selected purposes, defined by law, strategies and studies.
- **EDUCATION** domestic and foreign experts in the field of EE and RES.
- **MONITORING** and analyzing energy efficiency and the sustainable use of RES.
- We evaluate and **PROMOTE PROJECTS** aimed at saving energy, sustainable use of renewable and alternative energy sources and combined production of electricity and heat.
- Participation in the process of the **ENERGY LEGISLATION** preparation.
- **FREE ENERGY CONSULTANCY/ADVICE** for households, businesses and the public sector.
- Participation in **INTERNATIONAL PROJECTS (H2020, Interreg)** in the field of EE and the sustainable use of RES and represent Slovakia in international institutions (IEA, EnR, EC).

Policy instrument

OP Quality of environment



OPERAČNÝ PROGRAM
KVALITA ŽIVOTNÉHO PROSTREDIA

- **Managing authority – Ministry of environment, implementing agency SIEA**
- **Period 2014-2023**
- **Main objective:**
 - support sustainable and efficient resource use and ensuring environmental protection , active adaptation to climate change and promotion of an energy efficient and low-carbon economy
- **3 thematic objectives:**
 - Supporting the shift towards a low-carbon economy in all sectors
 - Promoting climate change adaptation, risk prevention and management
 - Preserving and protecting the environment and promoting resource efficiency

Policy instrument

OP Quality of environment, Priority axis 4

Allocation – less developed regions €1,187,880,423

- more developed regions €2,656,424

5 investment priorities:

Promoting the **production and distribution** of energy derived from **renewable sources** (169 mil €)

Promoting **energy efficiency and renewable energy use in enterprises** (110 mil. €)

Supporting EE, smart energy management and renewable energy use in **public infrastructure and housing sector** (414,8 mil €)

Promoting **low-carbon strategies** for all types of territories, and **multimodal urban mobility** (60mil. €)

Promoting the use of **high-efficiency co-generation of heat and power** based on useful heat demand (185 mil. €)

Targets of PA4 in 2023

- Increased capacity of energy production from RES – **575 MW**
- Estimated annual decrease of GHG emissions – **0,7 Mtoe**
- Number of more efficient district heating systems – **25**
- Share of RES – **15,5%**
- Decreased annual consumption of primary energy in public buildings – **279 GWh/year**
- Number of public buildings at the low energy or ultralow- energy level or nearly zero-energy - **550**

National programs under PA4

4 NP focused on:

- **providing free energy consultancy** (in 5 major cities of Slovakia) - NP Live by Energy



- **supporting the installation of small appliances for the use of renewable energy sources in households** (NP Green to households, 1st phase 2015 - 2018 – 45 mil, 2nd phase 2019 – 2023 - 48 mil.)



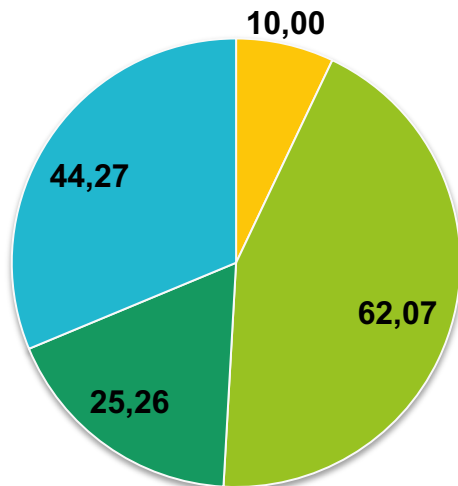
Zelená domácnostiam II

Podpora využívania obnoviteľných zdrojov energie v domácnostiach

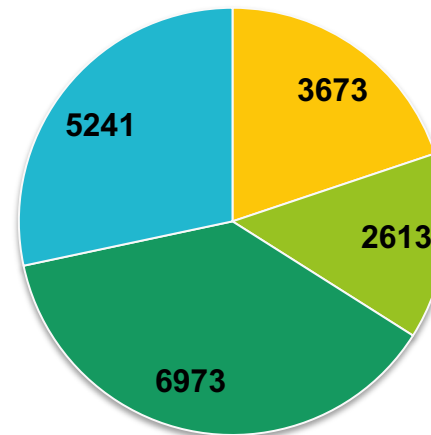
- **building an information platform for an EE low-carbon economy and auditing public buildings** (250 audits performed) – NP Energy professionally
- NP extension of the **monitoring system** of energy efficiency

NP Green to Households 1 a 2

GH1 Device output (MW) - 141,6 MW

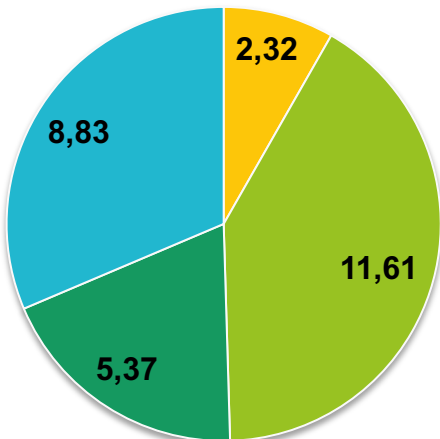


GH1 Number of Installations - 18,500

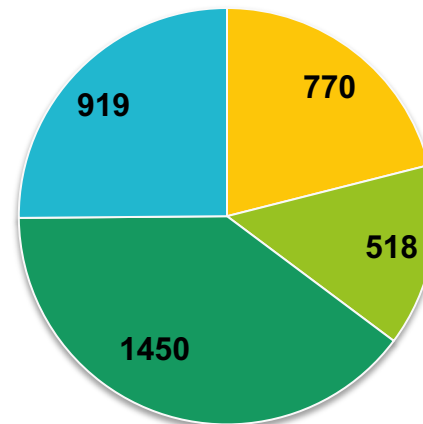


- Solar PV
- Biomass boiler
- Solar Thermal
- Heat pump

GH2 Device output (MW) - 28,14 MW



GH2 Number of Installations - 3657



International projects

- H2020 projects:



- **Build Up Skills** (roadmap for education of building professionals)



- **StavEdu** (craftsmen),



- **CraftEdu** (craftsmen),



- **Start2Act** (SMEs, startups)

- INTERREG projects:



- **INCI NZEB & EMMA** (support for legislative framework, action plan, support documents for public institutions, stakeholder workshops, renovation concept of school to NZEB standard...)



- **TOGETHER** (raising awareness in schools, intelligent measurement, energy management for public buildings administrators)



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Thank you!

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