



MINISTRY FOR
INNOVATION AND TECHNOLOGY

HUNGARY'S PRESENTATION FOR THE MULTILATERAL ASSESSMENT AT COP24

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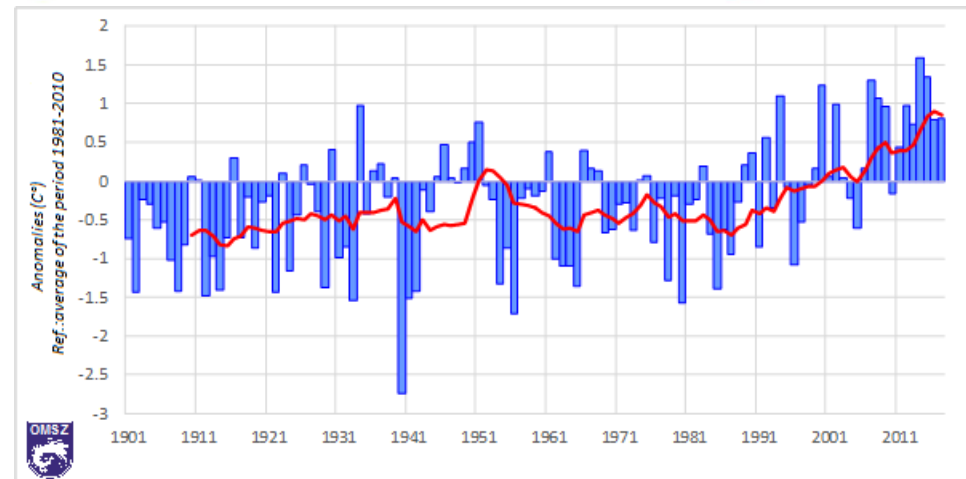
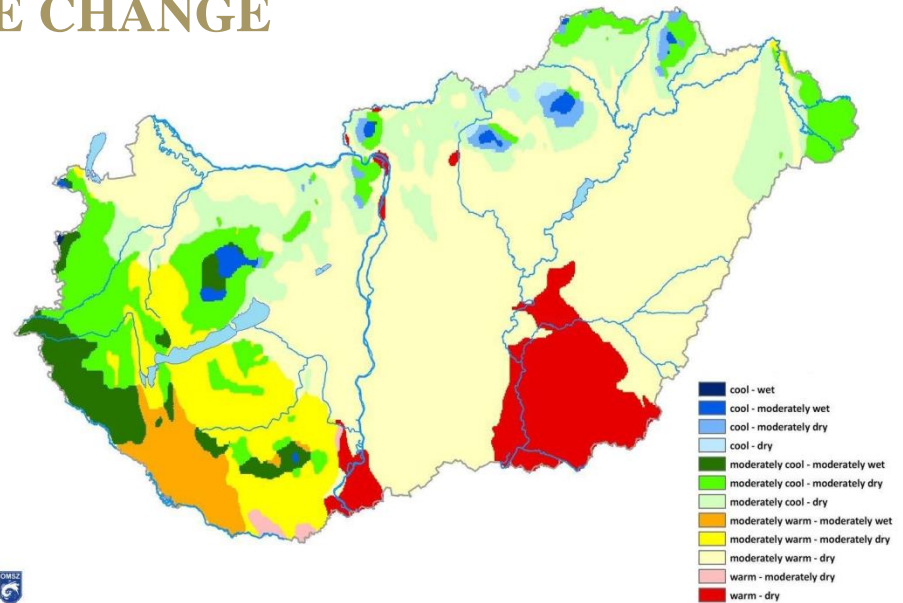
Ministry for Innovation and Technology





CLIMATIC CONDITIONS OF HUNGARY AND THE EFFECTS OF CLIMATE CHANGE

- **Hungary's climate**
 - Temperate, with cold, humid winters and warm summers.
- **Changes in the climate of Hungary**
 - approx. 1° C rise in the average temperature since the beginning of the 20th century (higher than the global change).
- **Expected effects in Hungary**
 - average temperature will increase in all seasons;
 - precipitation decrease in summer, increase in winter;
 - climate extremities shows a distinct spatial distribution, affects primarily Central, Southern and Eastern regions unfavorably.

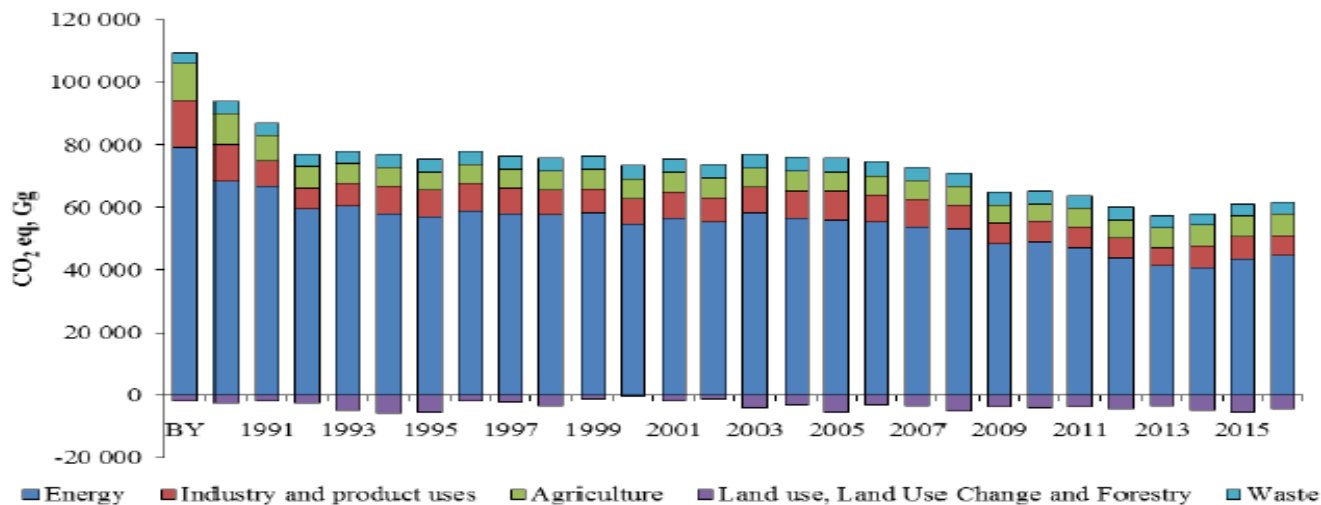


HUNGARY'S COMMITMENTS

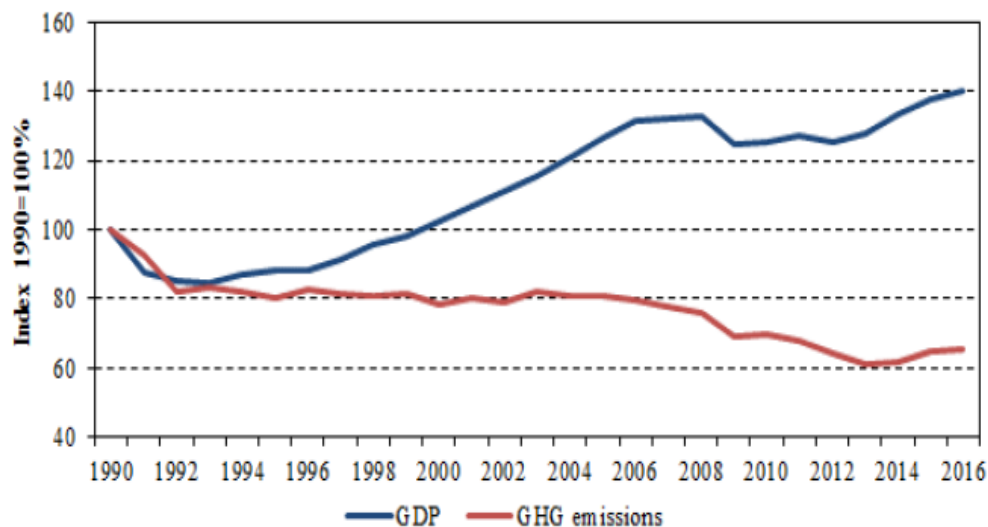
- **Binding commitment under Kyoto Protocol's second implementing period**
- **Binding EU 20% GHG emission reduction by 2020 compared to 1990**
 - EU Emission Trading System (ETS): EU wide cap based on harmonized rules
 - Individual Member States 2020 targets for non-ETS sectors:
 - Hungary's EU target: +10% maximum increase of emissions relatively to 2005. **Hungary is expected to significantly decrease its non-ETS emissions until 2020, already overachieving the target set by the EU.**
- **Binding 20% share of renewable energies in EU gross total final energy consumption combined with national binding targets by 2020**
 - Binding EU target for Hungary: 13%
 - **Target set by the Hungarian Government: 14,65 %**



GHG EMISSIONS IN HUNGARY, DECOUPLING OF ECONOMIC GROWTH



Note: BY=average of 1985-87 but 1995 for F-gases



Per capita emission

CO₂

PFC

N₂O

6,2 tonne
(CO₂ eq)

SF₆

HFC

NF₃

CH₄



TREND OF EMISSIONS BY GHG AND SECTOR

Trend of emissions by GHGs, excluding LULUCF (Gg CO₂-eq)

	BY	1990	2000	2010	2016
CO₂	85,571	73,455	58,552	52,121	47,578
CH₄	12,538	11,740	8,916	8,018	7,532
N₂O	10,952	8,215	5,336	3,808	4,485
HFCs	NO	NO	0,224	1,308	1,742
PFCs	0,371	0,376	0,283	0,002	0,001
SF₆	0,006	0,011	0,084	0,087	0,127
Total	109,438	93,797	73,395	65,344	61,464

Base year (BY)=average of 1985-87

*Trend of emissions and removals by sector
(including LULUCF, Gg CO₂-eq)*

	BY	1990	2000	2010	2016
Energy	78 985	68 194	54 663	48 765	44 605
Industry	15 211	11 834	8 296	6 700	6 482
Agriculture	11 867	9 878	6 066	5 636	6 878
LULUCF	-1 757	-2 519	-409	-4 012	-4 268
Waste	3 376	3 891	4 370	4 243	3 500
Total	107 682	91 278	72 986	61 331	57 197

Base year (BY)=average of 1985-87

HUNGARY'S CLIMATE CHANGE STRATEGY



- **First National Climate Change Strategy (NCCS1 - NÉS) 2008-2025**
- **Second National Climate Change Strategy (NCCS2 – NÉS2) 2018-2030, providing an outlook to 2050**
 - *Adopted by the National Assembly on 30/10/2018*
 - **Main objectives:**
 - Decarbonisation;
 - Geoinformatics basis for the territorial assessment of climate vulnerability;
 - Adaptation and preparation;
 - Ensuring climate partnership, awareness raising.
 - **Implementation:**
 - Climate Change Action Plan, within six months after the adoption of the strategy.

DECARBONISATION

Fields of intervention

Replacement of fossil energy fuels

Increasing the energy efficiency

Reducing the use of natural sources

Development of green economy

Forestation, CLT

Research, development and
innovation

Short-term

Mid-term

Long-term

Sectoral action lines

Electricity production

Buildings

Industry

Waste management

Transport

Agriculture

Carbon sequestration of woods

Carbon capture, storage and
utilisation

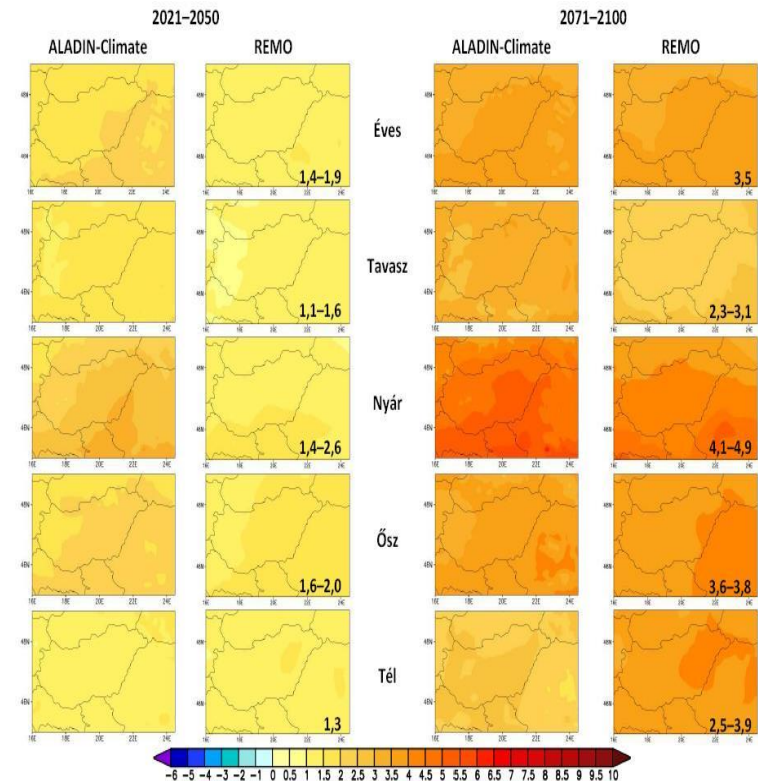


EFFECTS OF PAMS

- **Energy modernization of residential buildings: Warmth of Home Programme**
 - Since 2008;
 - Reduction of households' energy expenses: replacing outdated household machines, boilers, doors and windows;
 - Homes affected: **472 824**. CO₂ saving: **223 457** t/year. Energy saving: **855 025 414** kWh/year.
- **Support of electromobility**
 - Since 2016;
 - 182 service stations were installed and the purchase of 1035 electric vehicle were supported;
 - Resulted in a saving of approx. **5200t** CO₂.

NATIONAL CLIMATE CHANGE REPORT

- **Based on the processes and products of the IPCC**
- **Main goals:**
 - Supporting decision making and implementation;
 - Addressing knowledge gaps, using interdisciplinary approach;
 - Source of up to date and scientifically sound information for the general public.
- **Main deliverable by 2022, in time for the GST**
- **Flagship project of the Ministry for Innovation and Technology**





Thank you for your kind attention!

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