HUNGARY’S PRESENTATION FOR THE MULTILATERAL ASSESSMENT

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Effects of climate change in Hungary: The Carpathian Basin: significant vulnerability and climate change impacts

**Temperatures**
- Country-level temperatures increased 1.23°C, since the beginning of the previous century, exceeding the estimated 0.9°C of the global change.
- Between 1901-2020, the springs and summers warmed the most in Hungary, by 1.2 °C and 1.32 °C respectively. Warm temperature extremities have become more frequent in Hungary.

**Rain precipitation**
- Changes in precipitation are also relevant:
  - Slight annual precipitation decrease (-3%), notably in the spring (-16%) and autumn (-10%), since 1901.
  - Fewer days with precipitation (-17 days since 1901)
  - Longer drier periods (+4 days)
  - The rainiest and driest years during the last 100 years were 2010 and 2011
Our achievements

- In 2019, total emissions of greenhouse gases in Hungary were **64.4 million tonnes** carbon dioxide equivalents (**CO2-eq**) excluding the LULUCF sector.

- Being about **6 tonnes**, the Hungarian **per capita** emissions are below the European average.

- Compared to the base year (average of **1985-87**), **1990**, and **2005**, our current emissions are lower by **42%**, **32%**, and **16%**, respectively.

- With regards to the EU’s Effort Sharing Decision, Hungary could have increased its ESD emissions by 10% compared to the 2005 levels by 2020, but so far we decreased our ESD emissions by around 9%.

- Successful **decoupling** of GDP growth from the GHG emission trend.
Current and future climate and energy policy environment for action

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Framework of Hungary’s climate and energy policy

**Second National Climate Change Strategy**

**First Climate Change Action Plan (2018-2020)**
The Plan includes mitigation, adaptation, awareness-raising and implementation measures until 2020, based on the Second National Climate Change Strategy. The preparation of the second Climate Change Action Plan for the period 2021-2023 is currently ongoing.

**Report on the scientific assessment of the possible effects of climate change on the Carpathian Basin**
The aim of the report is providing detailed, scientifically verified information on the effects of climate change on the Carpathian Basin in each sector (including agriculture, water management, forestry, energy), and identifying key responses and directions for further measures.

**Draft National Clean Development Strategy**
The draft Strategy aims to achieve climate neutrality by 2050. The revision and finalisation of the Strategy is currently ongoing.

On the 8th January 2020, the Government accepted further important energy and climate related strategies.
The main objectives are to strengthen energy independence and energy security and to decarbonise energy production.

The Government has published an action plan which contains 8 action points corresponding to the main goal of Hungary's integrated energy and climate policy, which is to meet our 2030 climate protection goals in order to preserve Hungary and the Carpathian Basin for our children and grandchildren.
Our commitments - Law No. XLIV of 2020 on Climate Protection

Reducing domestic greenhouse gas emissions by at least 40% by 2030 compared to the 1990 levels

From 2030, in the case of final energy consumption going beyond 2005 levels, the increased consumption will be provided from carbon neutral energy sources

By 2030, the share of renewable energy sources in the gross final energy consumption will be at least 21%

**Achieving climate neutrality by 2050**
IN THE NEXT 10 YEARS WE WILL REACH A SIXFOLD INCREASE IN THE CAPACITY OF SOLAR POWER PLANTS

FROM 1 JULY 2020, WE HAVE STARTED THE ELIMINATION OF ILLEGAL WASTE DISPOSAL SITES

WE WILL BAN THE DISTRIBUTION OF SINGLE-USE PLASTICS. WE WILL CREATE A DEPOSIT RETURN SYSTEM FOR GLASS AND PLASTIC BOTTLES AND METAL CANS

WE WILL PROTECT OUR RIVERS FROM WASTE COMING FROM OUTSIDE OUR BORDERS

WE EXPECT MULTINATIONAL COMPANIES TO USE ENVIRONMENTALLY FRIENDLY TECHNOLOGIES. WE WILL SUPPORT RENEWABLE ENERGY PRODUCTION BY SMALL AND MEDIUM-SIZED ENTERPRISES

WE WILL PLANT TEN TREES FOR EVERY NEW-BORN BABY. WE WILL SUPPORT RENEWABLE ENERGY PRODUCTION BY SMALL AND MEDIUM-SIZED ENTERPRISES

IN THE NEXT 10 YEARS WE WILL REACH A SIXFOLD INCREASE IN THE CAPACITY OF SOLAR POWER PLANTS

WE WILL SUPPORT THE WIDER AVAILABILITY AND USE OF AFFORDABLE ELECTRIC CARS

WE WILL INTRODUCE GREEN GOVERNMENT BONDS
Mátrai Erőmű Zrt. (Mátra Power Plant)
Elements of a transformation based on a modernized, low-carbon vision

New 500 MWe gas turbine power plant
Waste fired block
Solar power plants (up to 200 MWp)
Thank you for your kind attention!

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