

THE ROLE OF GREEN BONDS IN THE ENERGY

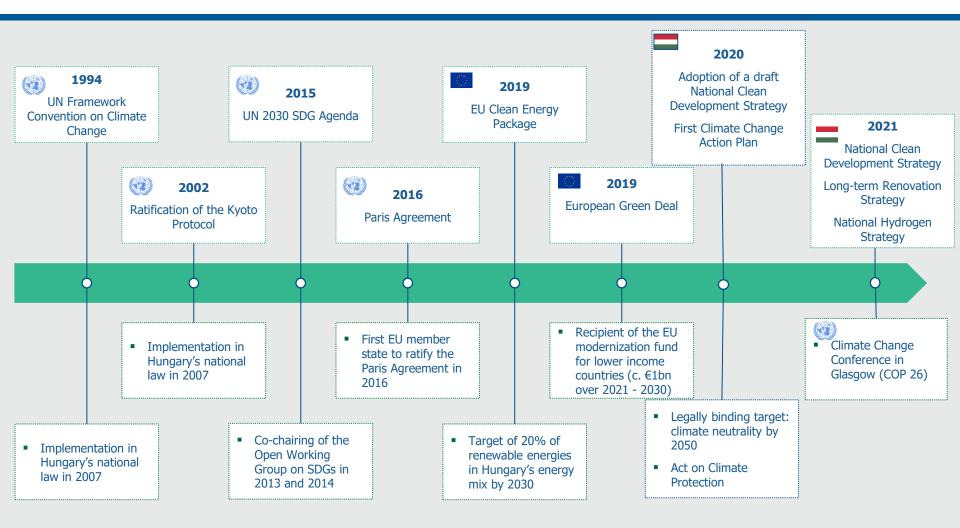
Session II: government bonds issuance to support national green programmes

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HUNGARY'S ENVIRONMENTAL COMMITMENTS AND INITIATIVES





NATIONAL STRATEGY TO ACHIEVE CLIMATE NEUTRALITY AND THE SDG



Hungary's strategies to mitigate climate change

Long term

National Clean Development Strategy

- This strategy aims to achieve climate neutrality by 2050
- To achieve this target, the additional annual investment need accounts for 4.8% of the GDP (early action scenario)

2nd National Climate Change Strategy

- This strategy consists in a **comprehensive framework** of **targets** and policies on climate and green economy development
- Focuses on 4 pillars for the 2018 2030 period

2nd National Climate Change Strategy: Four key pillars

Short term



Decarbonisation:

- Replacement of fossil fuel energy carriers
- Increase in energy efficiency
- Reducing natural resources consumption

Analysis of climate vulnerability:



- Development of vulnerability methodologies
- Promoting climaterelated research projects



Adaptation:

- Preservation of natural resources
- Adaptation of vulnerable regions and sectors

Partnership for climate

- Horizontal integration in public administration
- Awareness-raising through Education

Milestones and achievements – Climate change

32% GHG reduction Hungary reduced its greenhouse gas emissions by 32%1 between 1990 and 2019

EU top-10 emissions reduction

Hungary is in the EU top-10 for greenhouse gas emissions reductions between 1990 and 2019 (10th place1)

Low emissions per capita

The Hungarian GHG emission per capita is 82% of the EU average¹: the 7th lowest value in the EU (2019)

Ambitious GHG reduction target

The Government targets at least 40% GHG emissions reduction by 2030² (compared to the 1990 level)

Achievements of the SDGs

SDG Index Score (2021)

78.8%3

% of SDG achievement measuring progress towards the 17 SDGs

SDG index rank (2021)

 $25 / 165^3$

Country ranking relative to SDG achievements

OVERVIEW OF FLAGSHIP ESG PROJECTS



Project	Category	Objective	Description	UN SDGs	ICMA / EU Taxonomy
Development of electric cars	Green	Support the development and rapid adoption of electric cars in Hungary harnessing sustainable and modern energy	Government subsidies and registration tax credit to incentivize the shift to electric cars	7 AFFORMALIE AND CLEAR CHEETY	The Green Bond Principles
Electrification of railway network	Green	Limit the environmental impact of Hungary's railway network improving sustainability of transport and settlements	Electrification of not yet electrified railway network lines	11 SISTAMANE CITES AND COMMUNITIES	The Green Bond Principles
Support to families	Social	Provide financial support to large families promoting inclusive economic growth and social protection	Various subsidies and tax incentives supporting families with children	8 DEEDIT WORK AND ECONOMIC GROWTH	The Social Bond Principles
Women / mothers employment	Social	Enable and incentivize the employment of women / mothers enhancing gender equality	Tax incentives and social benefits supporting full-time or part-time employment of women with children	5 GENER EQUALITY	The Social Bond Principles
MAP Plus bond program	Governance	Enhance financial inclusion through the development of a retail domestic bond market	Retail bond issuance program giving access to citizens to HUF denominated instruments with attractive rates and easy access (sold via banks, post office, Treasury)	17 PATHERSHIPS	The Social Bond Principles

GREEN FINANCE IN HUNGARY



Key stakeholders



 The Hungarian Government Debt Management Agency (AKK)

Initiatives

- Hungary has adopted a green financing framework in May 2020, which includes 6 green expenditure categories:
 - Renewable Energy
 - Energy Efficiency
 - Land Use and Living Natural Resources
 - Waste water Management
 - Clean Transportation
 - Adaptation

Achievements

- Since then, the country has issued several green bonds in both local and foreign currencies:
 - June 2020: issuance of a €1.5bn Eurobond
 - September 2020: issuance of 2 Samurai bonds for a total of JPY 20bn
 - April 2021: debut issuance of a HUF 41.2bn green bond with a 30 years maturity with the intent of developing the local green bond market
 - December 2021: issuance of a Panda bonds for a total of CNY 1bn
 - February 2022: issuance of 3 Samurai bonds for a total of JPY 59bn



The Hungarian Central Bank (NBH)

- The NBH announced its Green Program in February 2019 aiming to reduce the risks associated with climate change and expand the financing of the green economy
- In July 2021, the NBH revamped its strategy through a "Green Monetary Policy Toolkit Strategy"
- An increasing number of corporates are

considering green issues on the back of

AKK and NBH efforts to help the sector grow

- The NBH was among the first Central Banks worldwide to set up of a dedicated Green Bond portfolio in June 2019
- Under its newly adopted strategy, the NBH will continuously examine how monetary policy can achieve price stability and environmental sustainability objectives
- Corporate Green Bonds first issuance took place in August 2020
- 16 Hungarian corporates issued Green Bonds in both local and foreign currency



The Hungarian corporate sector

GREEN BOND ALLOCATION REPORT 2020



In March 2021, Hungary published the Green Bond Allocation Report 2020

- Hungary strives to achieve climate neutrality by 2050
 - Green Bond Framework
 - Act XLIV of 2020 on Climate Action
 - Foreign-currency Green Bonds issuance in 2020
 - Local-currency Green Bonds issuance in 2021
- Hungary committed to annual reporting on the allocation and the impact of its Green Bonds
- Green Bond Allocation Report 2020 was compiled in March 2021
- Total green bonds proceeds amounted to HUF 573,68 billion; total eligible expenditures amounted to HUF 1,204.52 billion

Green Budget Expenditures (HUF billions)

Sectors	2018 Fact	2019 Fact	
Renewable Energy	4.86	0.84	2.05
Energy Efficiency	2.24	4.48	15.26
Land Use and Living Natural Resources	32.58	35.32	35.64
Waste and Water Management	4.36	2.66	2.80
Clean Transportation	327.36	340.23	372.63
Adaptation	0.67	7.60	12.94
Eligible Green Expenditures	372.07	391.13	441.32
Allocated Amount	372.07	201.61	

- HUNGARY
 Green Bond Allocation
 Report 2020

 March 2021
 - Hungary selected projects according to the eligibility criteria defined in the Green Bond Framework, best market practices and the second party opinion provider CICERO
 - Eligible green expenditures include investment expenditures, intervention expenditures, tax expenditures and selected operating expenditures
 - Budget expenditures which obtained dedicated funding were excluded
 - Nuclear power, armament and defence sector, fossil fuel production and power generation related projects were excluded
 - None of the expenditures harms significantly any environmental objective of the EU

Source : AKK

GREEN BOND IMPACT REPORT 2020



In November 2021, Hungary published the Green Bond Impact Report 2020

- Hungary committed to annual reporting on the allocation and the impact of its Green Bonds
- Green Bond Impact Report 2020 was compiled in November 2021
- The report covers the allocations for the budget years 2018 and 2019 and the key environmental and social impacts resulting in budget years 2018, 2019 and 2020
- The assessment of the environmental impacts was based on the ICMA
 Harmonized Framework for Impact Reporting Handbook (June 2021 edition)
- The report summarizes the indicators on a project-by-project basis



Renewable Energy

8.2kt CO2 equivalent

GHG was avoided

49.5kt CO2 equivalent GHG was avoided

Energy Efficiency

Land Use and Living Natural Resources

More than 120 thousand projects supporting sustainable agricultural areas covering 794,438 hectares

Waste and Water Management

Length of sewage system per kilometres of drinking water system increased to 761 meters

Clean Transportation

1,106.3kt CO2 equivalent GHG was avoided

Adaptation

1.8% decrease in air pollutant particular matter (PM10) between 2018 and 2019

















Source : AKK



THANK YOU FOR YOUR ATTENTION!

