


Workshop on strengthening national capacities in applying sustainable energy policies and practices

UNECE, 30 June 2021



Content



- Overview of recommendations
 - Status of Implementation
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Recommendations



- ▶ *The Government should integrate climate change issues into overall energy planning and develop integrated climate and energy plans, which would include the gradual switch from the use of domestic lignite for electricity production to more sustainable and less polluting sources of energy, and the increase of the percentage of gross final energy consumption from renewable energies to meet the national target of 23.9 per cent by 2020.*
- ▶ *The Government should introduce measures to improve **energy efficiency** and to stimulate changes towards using more sustainable fuels in the housing and energy sectors.*
- ▶ *The Ministry of Environment and Physical Planning should develop a law on climate change and an overall long-term strategy on climate action.*

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- *Strengthen human capacities of the most relevant institutions, especially those participating in the National Climate Change Committee, by establishing in all participating ministries climate change units or climate focal points with a clear mandate for mainstreaming climate change in the relevant sectors;*

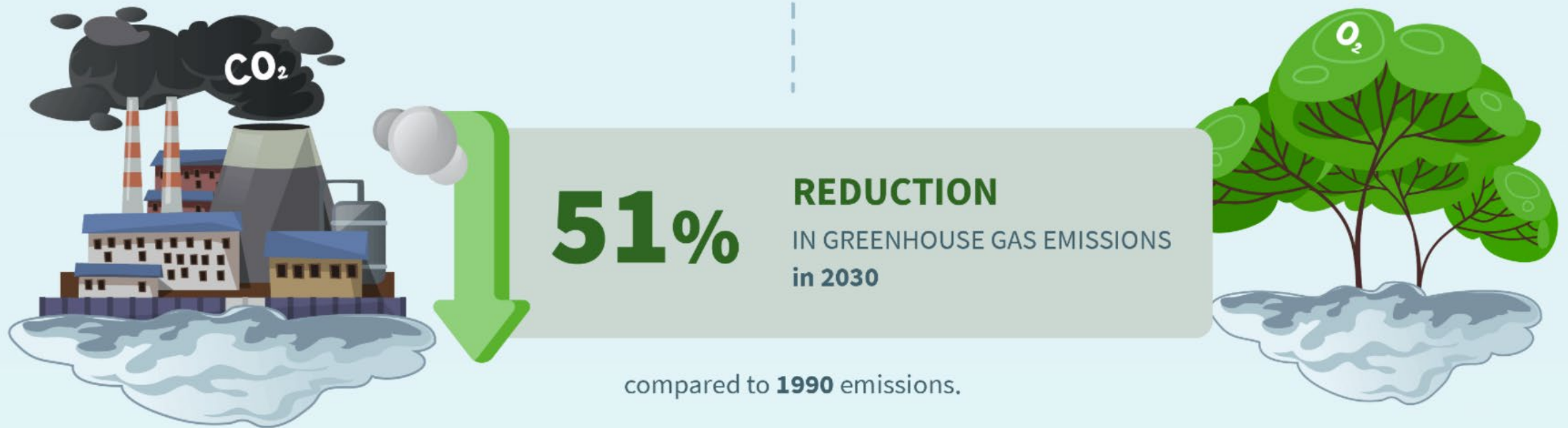


Status on national climate/energy policy planning

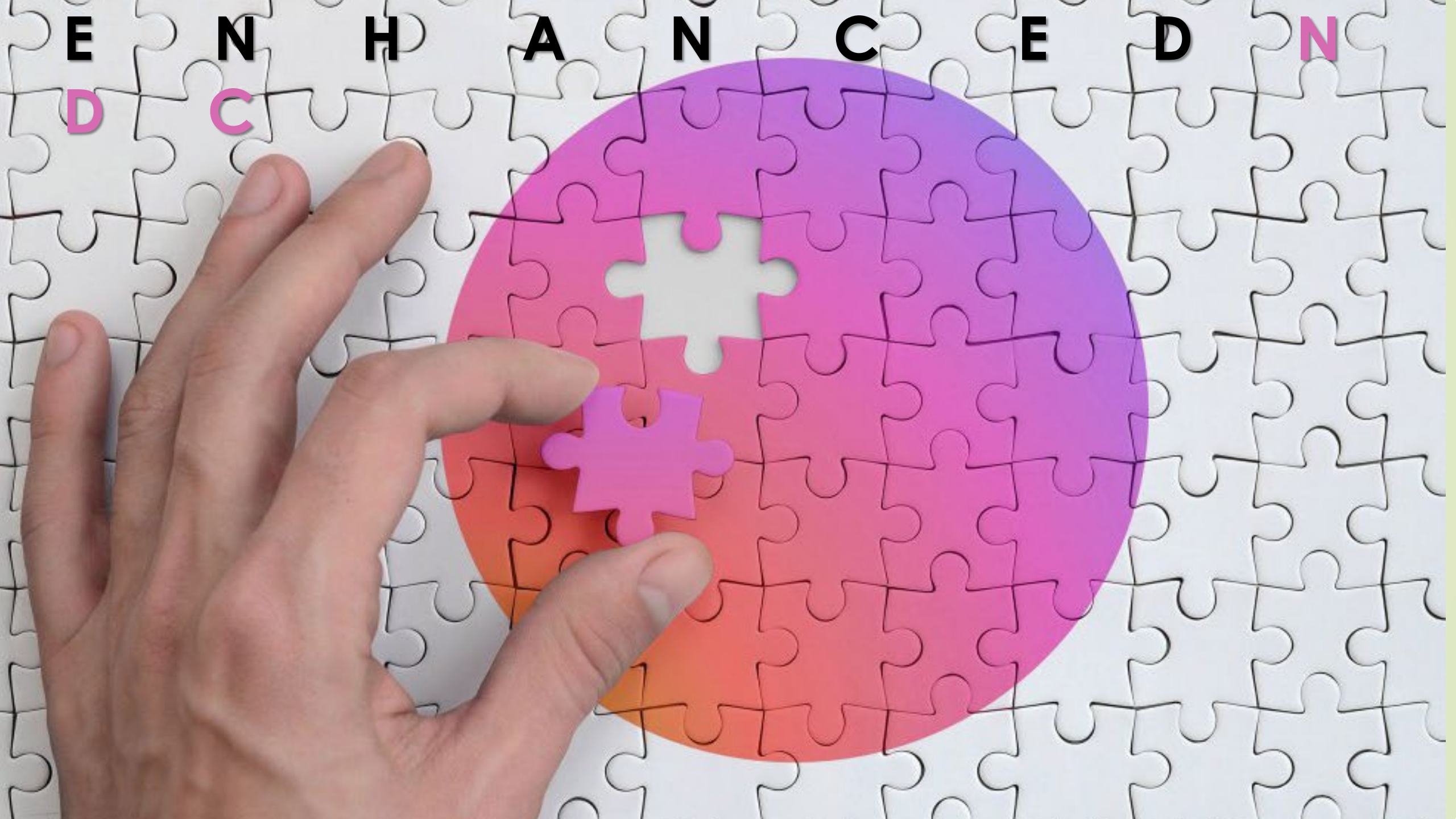
- ▶ Energy strategy -2040-adopted
- ▶ 3 BUR -adopted
- ▶ Enhanced NDC-2030 –adopted
- ▶ Integrated energy and Climate Plan -drafted (Q2/2021)
- ▶ 5 years Program for implementation of the Energy Strategy –drafted (Q2/2021)
- ▶ Long term strategy on Climate Action, drafted -2050 (Q4/2021)

MACEDONIAN ENHANCED NDC

The Republic of North Macedonia has prepared a new, more ambitious contribution to global efforts to reduce greenhouse gas emissions:



Expressed in **net emissions**, this is an **82% reduction** in 2030 compared to 1990 emissions.



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MACEDONIAN ENHANCED NDC

ALL SUPPORTING DOCUMENTS CAN BE FOUND [HERE](#):

- TECHNICAL BACKGROUND DOCUMENT
- SOCIO-ECONOMIC ASSESSMENT OF THE MACEDONIAN ENHANCED NDC & COVID IMPACT
- NDC – SDG SYNERGIES AND TRADE-OFFS
- CIRCULAR ECONOMY IN THE WASTE SECTOR
- PRIVATE SECTOR SHARE IN CLIMATE CHANGE MITIGATION EFFORTS - CASE STUDY: INDUSTRY SECTOR
- YOUTH CONSULTATIONS
- CLIMATE FRIENDLY COOLING SOLUTIONS
- GENDER AND CLIMATE CHANGE INDICATORS
- CARBON TAX ROADMAP & ASSESSMENT REPORT
- STRATEGY FOR FINANCING THE NDC
- POLICY & FINANCIAL DE-RISKING OF THE NDC (END OF JUNE)



- [CLIMATE CHANGE PLATFORM](#)
- FACEBOOK PROFILE @klimatskipromeni.mk
- INSTAGRAM PROFILE klimatskipromeni.mk

MACEDONIAN ENHANCED NDC



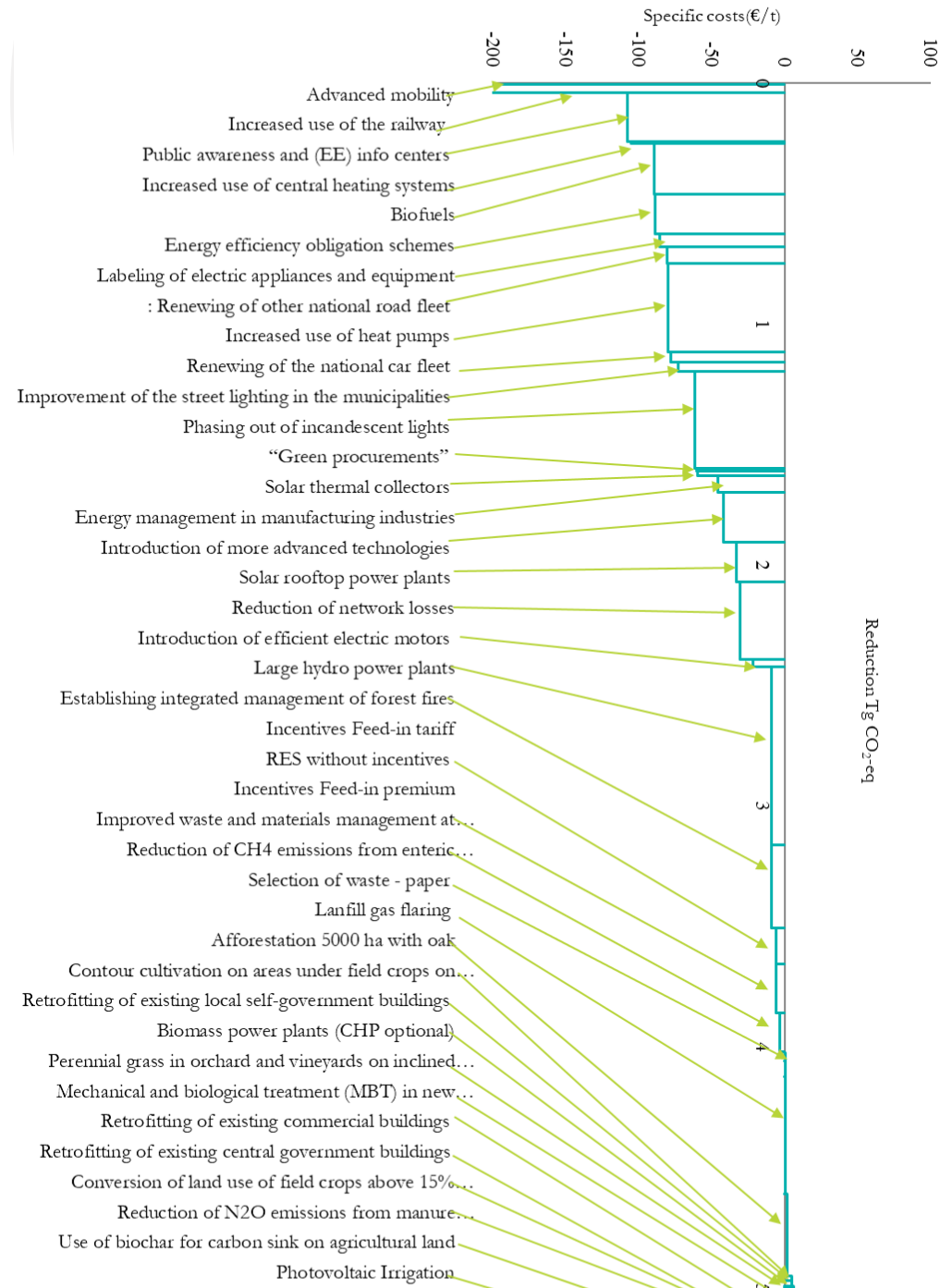
- ECONOMY-WIDE TARGET ✓
- IPCC SECTORS ✓
- AMBITION ✓
- REALITY CHECK ✓
- TRACK PROGRESS ✓
- FINANCING VEHICLES ✓
- CARBON TAX ✓
- TRANSPARENCY FRAMEWORK ✓
- POLICY & FINANCIAL DE-RISKING ✓

NDC IMPLEMENTATION

63 CLIMATE ACTIONS IN **10** YEARS
TIMFFRAME

HOW to prioritize?

Economic & environmental effectiveness

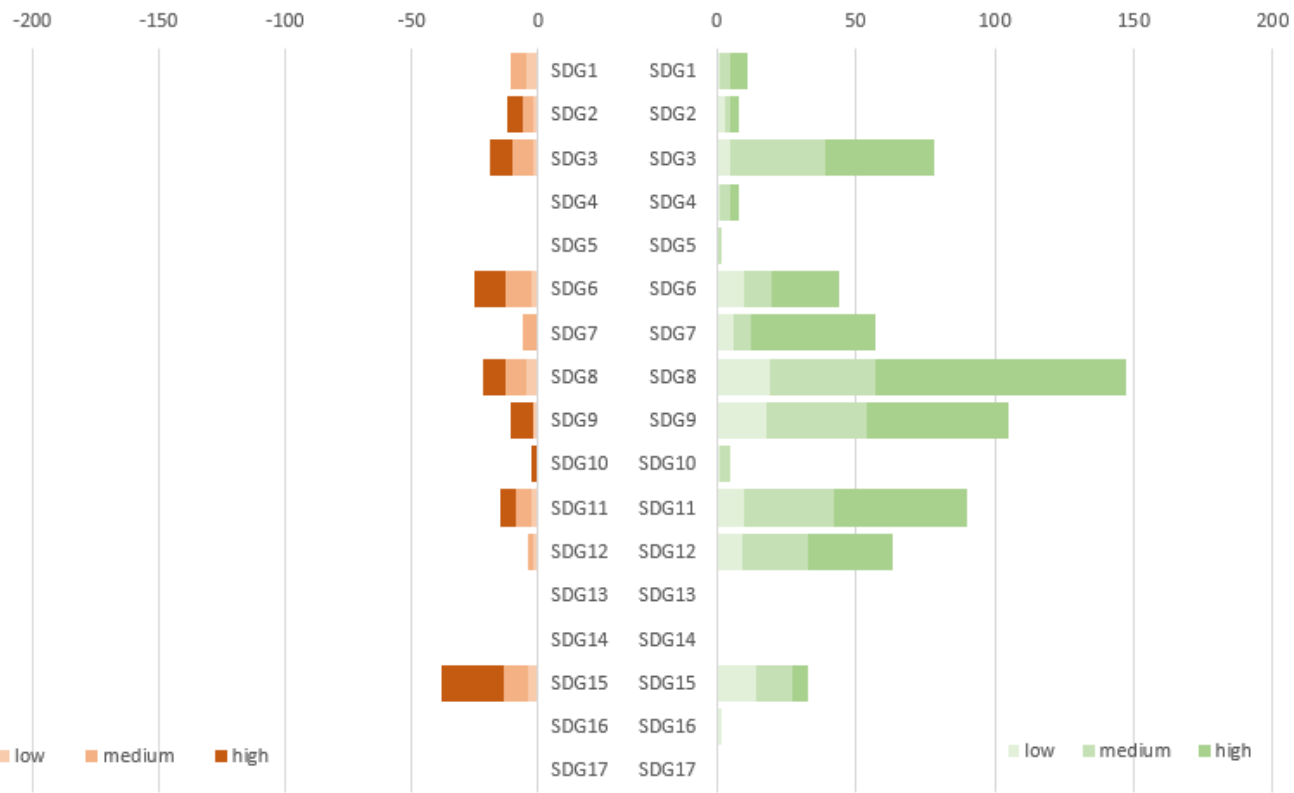


Creating new green jobs

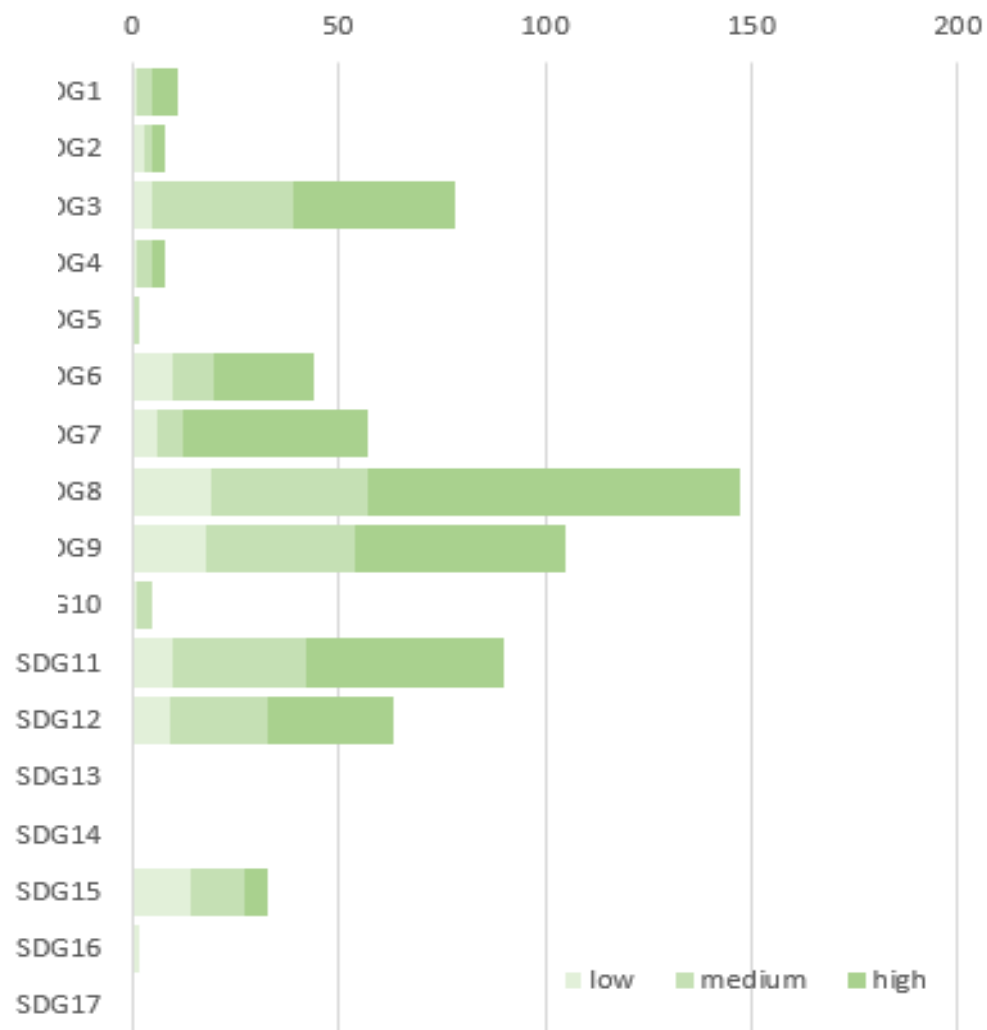
- Retrofit of existing residential buildings (42%),
- Construction of passive houses (21%),
- RES without incentives (6%) and
- Solar thermal collectors (8%).

Potential trade-offs

Potential synergies



Potential synergies



- Increased use of central heating systems;
- Construction of new buildings;
- Retrofitting of existing residential buildings;
- Increased use of heat pumps;

Figure 13 Electricity & heat. Transport. Buildings sectors – Synergies and Trade-offs

HOW to prioritize?

De-risking measures

prioritized by following order:

- 1) Covid-19 recovery
- 2) Low-cost de-risking
- 3) High potential emissions reduction

The design of the **ENERGY EFFICIENCY FUND** is crucial

		ktCO ₂ e
A-51	Heat pumps	392.3
A-53	Retrofit residential buildings	49.0
A-54	Retrofit central Gov. buildings	12.6
A-55	Retrofit local Gov. buildings	13.2
A-56	Retrofit commercial buildings	98.2
A-60	Municipal Street Lights	32.5
A-63	Energy audits	67.8
A-81	Integrated Forest management	345.0
A-82	5000 Ha Afforestation	312.5
Total		1323.1
A-50	Appliance labelling	56.3
A-52	Energy Efficiency info centres	177.0
A-59	CFLs and LED bulbs	401.8
Total		635.1
A-40	Transmission Efficiency	323.4
A-41	Hydro Power	740.9
A-83	Flaring	489.7
Total		1554.0
Grand total		3512.2



1. Energy efficiency obligation schemes
2. Solar thermal collectors
3. Labelling of electric appliances and equipment
4. Increased use of heat pumps
5. Public awareness campaigns and network of energy efficiency (EE) info centres
6. Retrofitting of existing residential buildings
7. Retrofitting of existing central governmental building
8. Retrofitting of existing commercial buildings
9. Construction of new buildings
10. Construction of passive buildings
11. Phasing out of incandescent lights
12. Improvement of street lighting in municipalities
13. "Green procurements"
14. Increased using of central heating

*Measures to improve EE,
included into e-NDC*

Plus:

Measures for implementation of the "Plan for clean air":

+

Implementation of Air pollution reduction measures through Programme for subsidizing the total cost for purchasing highly efficient inverter air conditions to the citizens that use solid fossil fuel for heating (2020)

+

Different subsidy programs by the ME Law on EE adopted



Recommendations at Local level

- ▶ The Government should:
 - ▶ (a) Encourage cities to become signatories to the Covenant of Mayors for Climate and Energy and to subsequently prepare, adopt and implement sustainable energy (and climate) action plans;
 - ▶ (b) Support at municipal level the implementation of measures that would achieve GHG emissions reduction, which are included in the 2011 Skopje Sustainable Energy Action Plan;
 - ▶ (c) Advise the City of Skopje to integrate the updated 2011 Skopje Sustainable Energy Action Plan with the 2017 Resilient Skopje Climate Change Strategy, financed by the United Nations Development Programme, to avoid duplications and overlaps.



Status



- The City of Skopje has a Strategy on climate resilience
- The amendment of the Law on Energy is expected. It will serve as a legal basis for preparation of local level plans on energy and climate.
- The draft Law on climate Action will provide legal basis for integrated energy and climate planning at local level as well
- *An educational-promotional campaign in each municipality is an important component*
- *Municipal programs on EE in place*



Conclusion



- ▶ As a general remark, it can be concluded that some of the proposed recommendations have been started or are in progress of their implementation (or have been implemented), but for some of them steps on further implementation are needed.
- ▶ Coordination mechanism among different ministries is crucial
- ▶ Setting clear responsibilities and further strengthening of capacities (by the Acts on systematisation) remains challenge, especially in areas relevant to climate change (v.s energy), MRV and transparency.



Thank you

T.grncarovska@moepp.gov.mk

www.moepp.gov.mk

www.klimatskipromeni.mk

<https://www.linkedin.com/in/teodora-grncarovska-4b1684b6/>