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Transition to ETF: Issues and Challenges from the perspective of Montenegro

Webinar: “Unpacking the Enhanced Transparency Framework: Transition and Challenges for the Eurasian Countries”

Jovana Drobnjak, project manager

December 14, 2023, from 10:00 - 11:30h

Strengthening Nationally Determined Contribution (NDC) and Adaptation Activities Transparency Framework for Montenegro -CBIT



CBIT-GSP
CLIMATE TRANSPARENCY

Development of the Fourth National Communication and the First Biennial Transparency Report of Montenegro to the UNFCCC



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Two main goals of project:

1. Assistance in the preparation and submission of FNC/BTR for the fulfilment of the obligations under UNFCCC
2. Building national capacities, while increasing the level of awareness of climate change issues, with the aim of greater integration of these issues into national and sectoral policies, strategies and programs

Additional challenges: - National implementation modality
- Joint management and implementation with CBIT

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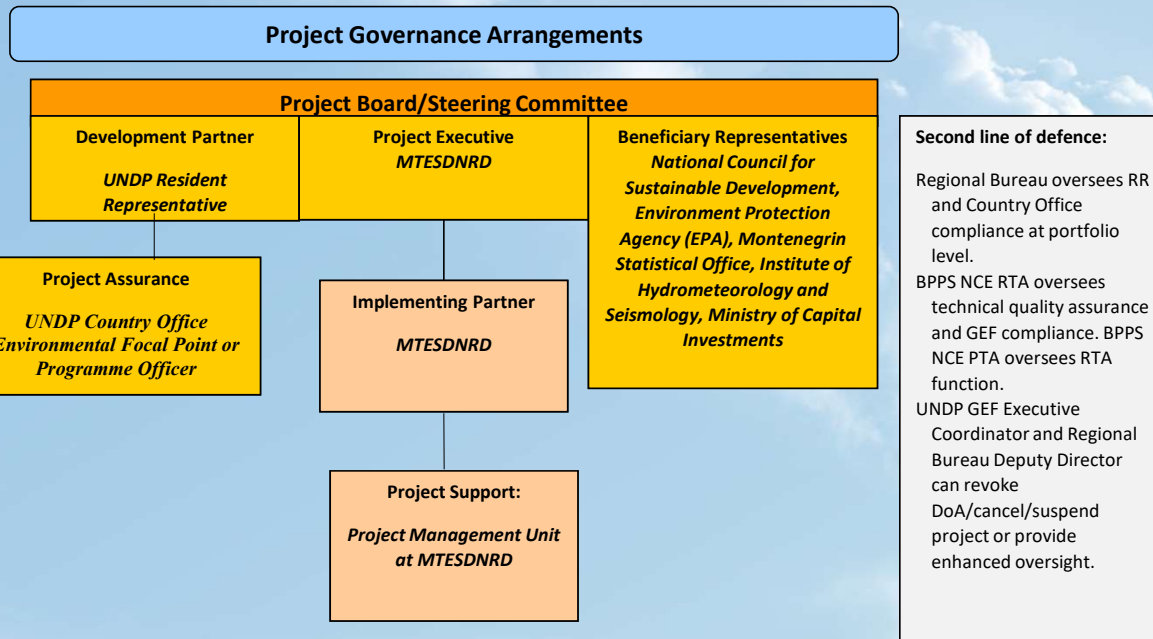
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The duration of the project:

The beginning of the project
January 2022

Completion of the project
July 2025

Plan of activity:

First version: June 2024

Public hearing: July - August 2024

Second version of the report: September
2024

Translation: October 2024

Submission of reports to the
Government: November 2024

FNC/BTR finalized and submitted to
UNFCCC: December 2024

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Institutional setup for development of BTR

The preparation process of three National Communications and three Biennial Update Reports to the Conference of the Parties of the UNFCCC, has contributed to the institutional strengthening of the Ministry, as competent institution for the application of the Convention, but also to other relevant institutions at national level: Environmental Protection Agency, Montenegrin Statistical Office, Institute for Hydrometeorology and Seismology, ministries in charge for energy, agriculture, transports etc.

Montenegrin timeline in reporting to UNFCCC



**Combined
BTR/NC**



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Achieved results:

Outcome 2 - GHG Inventory

In February 2023, contractual agreements for project implementation were finalized with:

- Environmental Protection Agency
- Montenegrin Statistical Office
- Institute for Hydrometeorology and Seismology

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Achieved results:

Outcome 2 - GHG Inventory

Montenegrin Statistical Office

- Collection of updated data for 2020 to 2022, encompassing: energy balances, industrial production, animal husbandry and milk production, mineral fertilizer usage in agriculture (import and export), straw burning, plant production, forestry, and waste

- Additional value:

1. Improved data for agriculture through the Census of Agriculture in 2024
2. Support and training of new staff

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Achieved results:

Outcome 2 - GHG Inventory

- Environmental Protection Agency
- Updated database of GHG inventory activities for the period 2020-2022; prepared for **2020 and 2021**
- Preparation of the National Inventory Report (NIR) for 2020-2022 and recalculating previous time series where necessary – **submitted to UNFCCC in September 2023** [link](#)
- Report on recommendations for improving the collection and calculation of data on GHG

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The institutional arrangements for the inventory system



Figure 2 National System

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Emissions shall be estimated by *sector experts* for:

(a) all sectors of the Air pollutants inventory according to the 2006 IPCC guidelines and the EMEP/EEA Air pollutant Emission Inventory Guidebook 2019:

- IPCC/NFR sector 1 Energy
- IPCC/NFR sector 2 Industrial Processes and Product Use (IPPU)
- IPCC/NFR sector 3 Agriculture
- IPCC sector 4 Land Use, Land use Change and Forestry (LULUCF)
- IPCC/NFR sector 5 Waste
- IPCC/NFR sector 6 Other

The IPCC sector AFOLU – Agriculture, Forestry and Other Land Use - is divided into two ‘sectors’ but with close linkage

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b) all seven gases of the GHG inventory according to the 2006 IPCC guidelines:

- carbon dioxide (CO₂)
- methane (CH₄),
- nitrous oxide (N₂O),
- hydrofluorocarbons (HFCs),
- perfluorocarbons (PFCs),
- sulphur hexafluoride (SF₆), and
- nitrogen trifluoride (NF₃).

(c) Emissions carbon monoxide (CO), nitrogen oxides (NO_x), non-methane volatile organic compounds (NMVOCs), and sulphur oxides (SO_x) are estimated in the air pollutants inventory according to the EMEP/EEA Air pollutant Emission Inventory Guidebook 2019 and are submitted under UNECE Convention on Long-range Transboundary Air Pollution (CLRTAP).

No flexibilities within the meaning of para 3(c) of the Modalities, procedures and guidelines for the transparency framework for action and support referred to in Article 13 of the Paris Agreement have been applied.

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Brief description of key categories

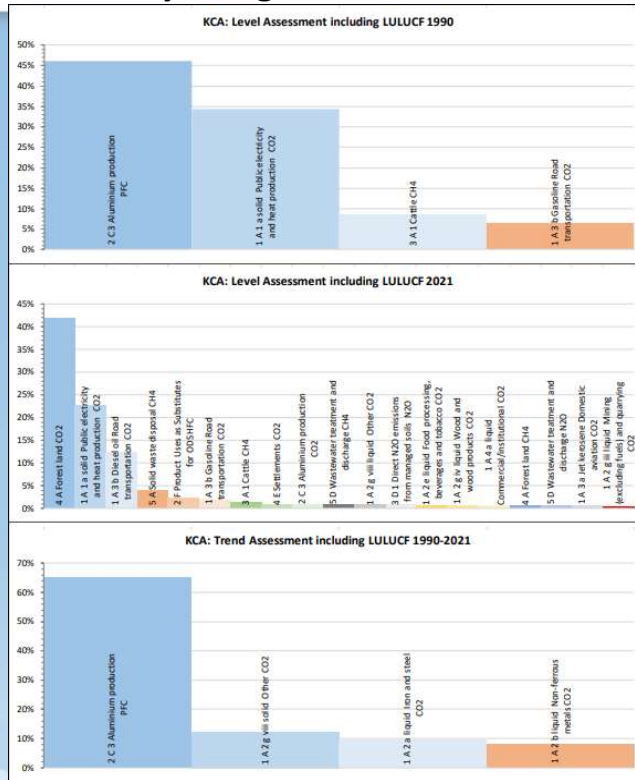


Figure 9 Key Categories including LULUCF.

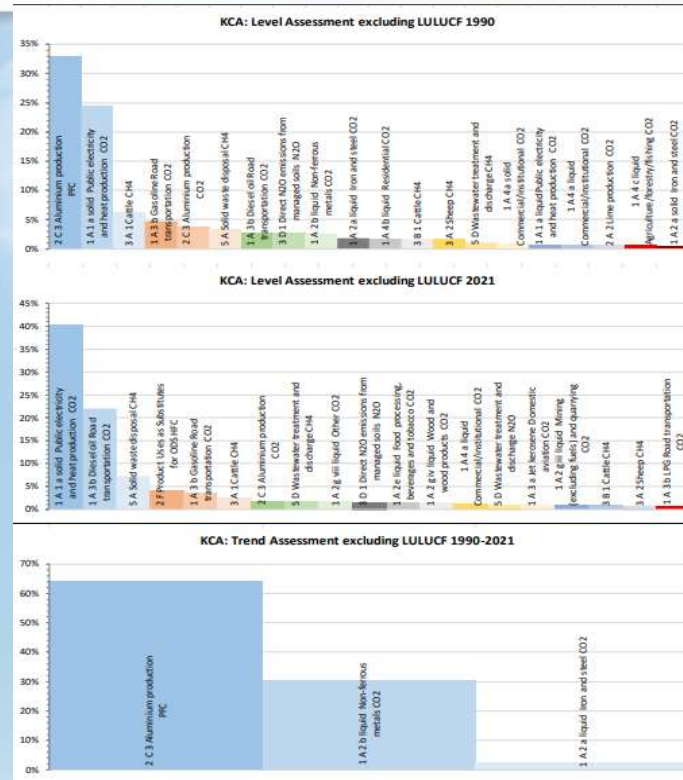


Figure 10 Key Categories without LULUCF

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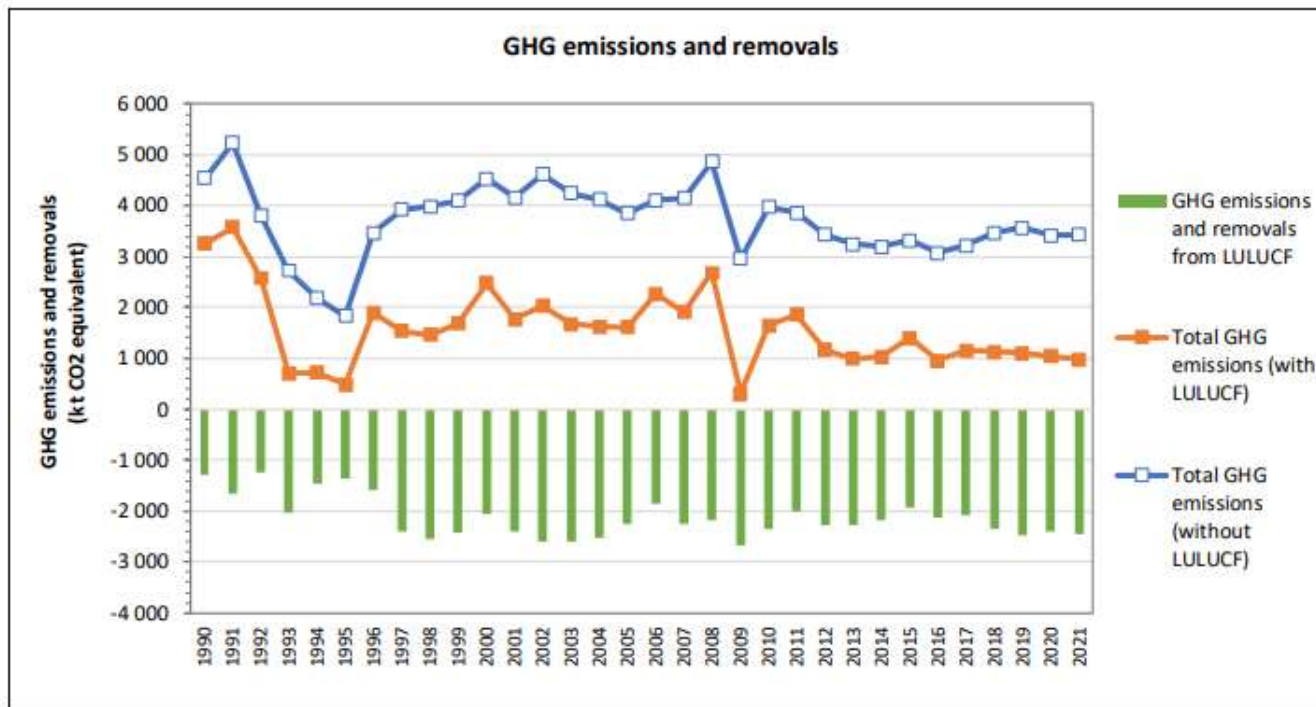


Figure 16 Trend of national total GHG emissions and net emissions/removal from LULUCF

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Emission factors:

Montenegro has completed calculations for country-specific emissions factors:

1. Summary report for methods and emission factors used and source of activity data in IPCC sector 1 Energy
2. Summary report for methods and emission factors used and source of activity data in IPCC sector 2 IPPU
3. Summary report for methods and emission factors used and source of activity data in sector 2 IPPU – F-gases
4. Summary report for methods and emission factors used and source of activity data in IPCC sector 3 Agriculture
5. Summary report for methods and emission factors used and source of activity data in IPCC sector 5 Waste

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Outcome: Track Progress of NDC implementation and Achievement and Mitigation Actions

- 3.1. The analysis of policies and measures undertaken by the government to reduce GHG emissions by sector (energy, IPPU, AFOLU and waste) carried out
- 3.2. The projections of GHG emissions up to 2040, under the Paris Agreement, in the main sectors and NDC roadmap 2025-2030 completed

External
expertise

3.3. System for NDC tracking:

- ToR developed – FAO tracking tool
- ClimatePromise 2

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Development of GHG inventory tool: Thought Twinning light project: “Development of Upgraded Integrated Tool and Update of Air Emissions Inventory”, the Montenegrin Environmental Protection Agency succeed to develop new excel tool for GHG inventory. Project is funded by EU and implemented by Environment Agency Austria. Main results of project are as follow:

- Development of an excel-based integrated tool for air emissions and GHG Inventories in place in accordance with EMEP/EEA Guidebook 2019 and IPCC 2006 methodology
- Re-calculated Air Emissions Inventory for the time series 1990 –2019 and update for 2020
- Inventory reports (NIR & IIR) developed
- Trainings Sector by Sector
- Trainings on Uncertainty, QA/QC, Institutional Arrangements.

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Adaptation chapter



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Institutional capacities

Climatology
Climate change
Hydrology
Water quality

Analysis of climate characteristics for the period **1991-2020***, procurement and application of climatology software;

"Observed" climate changes and changes in extreme weather and climate events until 2022 at the level of Montenegro and **by cities***

Hydrological characteristics of watercourses of Montenegro for small, medium and large waters

"Observed" changes in the flow of small, medium and large waters

Activities of IHS

Basic activities and overview of the situation in the field of water quality in Montenegro

Necessary measures for adaptation to climate change

External experts

- **CLIMATE PROJECTIONS for RCP4.5 and RCP8.5 scenarios (EURO-CORDEX integrations)**
- **FORESTRY: Impact of CC on the forests of Orjen**
- **AGRICULTURE: Impacts of climate change on selected agricultural crops and vulnerability by geographic area in Montenegro**
- **WATER QUALITY: Examine water quality parameters (surface and underground) depending on high temperatures, heavy rains and longer periods of low water levels; analyze the impact of sanitary infrastructure that affects the quality of drinking water..**

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1991-2020 Normal for the analysis of climate characteristics (WMO); **cities*** - in those cities where there are GMS



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ICAO Model E
Period: 2013. - 2022.
Elevacija: 141 ft

Aerodrom: Podgorica (LYPG)
Uk. broj osmatranja: 14650
Latituda: 42° 21' 34" N
Longituda: 19° 15' 7" E

Aerodrom: Podgorica (LYPG)
Uk. broj osmatranja: 14650
Latituda: 42° 21' 34" N
Longituda: 19° 15' 7" E

Mjesec: VII JUL
Longituda: 19° 15' 7" E

Aerodrom: Podgorica (LYPG)
Uk. broj osmatranja: 173504

Latituda: 42° 21' 34" N Longituda: 19° 15' 7" E

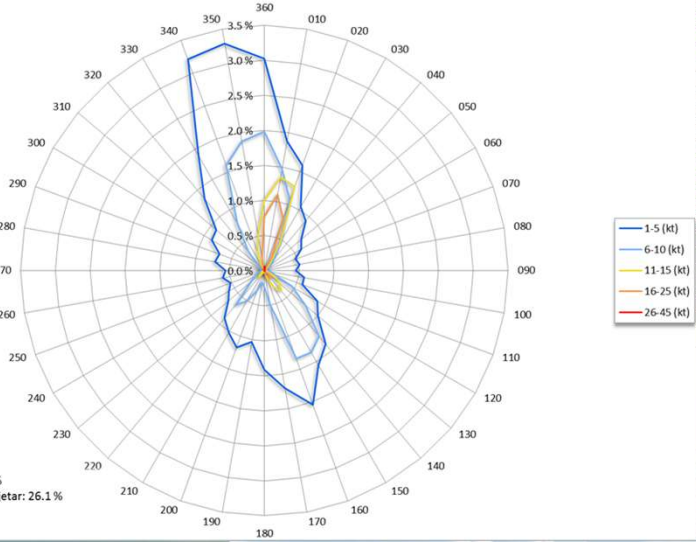
Period: 2013. - 2022.

Vrijeme (UTC)	MJESEC												Godina
	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	
00:00	4.0	6.5	8.8	12.2	15.9	20.8	23.7	24.0	19.1	13.9	10.1	5.5	13.9
00:30	3.9	6.3	8.7	12.0	15.8	20.5	23.5	23.8	18.9	13.7	9.9	5.3	13.7
01:00	3.8	6.3	8.6	11.8	15.5	20.2	23.2	23.7	18.7	13.5	9.8	5.2	13.6
01:30	3.7	6.2	8.4	11.7	15.3	20.0	23.0	23.4	18.6	13.4	9.7	5.1	13.4
02:00	3.7	6.0	8.3	11.6	15.2	19.9	22.7	23.2	18.4	13.3	9.6	5.1	13.2
02:30	3.6	5.8	8.3	11.1	15.0	19.7	22.6	23.0	18.2	13.1	9.4	4.9	13.1
03:00	3.6	5.7	8.2	11.0	14.9	19.5	22.4	22.8	18.1	12.9	9.3	4.8	12.9
03:30	3.4	5.6	7.9	10.8	14.8	19.4	22.2	22.6	17.9	12.8	9.3	4.8	12.8

Vrijeme (UTC)	TEMPERATURA														
	10	10-5	-5-0	0-5	5-10	10-15	15-20	20-25	25-30	30-35	35-40	40-45			
00:00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9	58.6	34.9	0.7	0.0	0.0
00:30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9	60.9	32.6	0.7	0.0	0.0
01:00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.5	63.7	29.1	0.7	0.0	0.0
01:30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.1	65.7	25.8	0.7	0.0	0.0
02:00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3	69.1	21.9	0.7	0.0	0.0
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03:30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.4	73.7	14.6	0.3	0.0	0.0
04:00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.7	75.5	14.5	0.3	0.0	0.0
04:30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.5	69.0	23.9	0.6	0.0	0.0
05:00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	53.4	42.1	1.0	0.0	0.0
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06:30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	14.8	69.7	14.2	0.0	0.0
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08:30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	4.5	35.9	57.0	2.3	0.0
09:00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	3.5	29.4	62.3	4.5	0.0
09:30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	2.3	27.4	61.6	8.4	0.0
10:00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	23.2	63.2	11.6	0.0	0.0
10:30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	19.0	61.3	17.4	0.0	0.0
11:00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	2.3	15.5	60.6	21.3	0.0
11:30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	15.2	56.0	26.2	0.0
12:00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	2.6	12.3	54.5	30.3	0.0
12:30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.9	12.3	51.9	32.8	0.0
13:00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	2.3	11.0	52.6	32.3	1.3
13:30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	2.9	10.7	53.1	31.1	1.6
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14:30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	2.6	11.0	52.8	32.0	0.3
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15:30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	2.3	16.6	52.1	27.4	0.3
16:00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	3.2	17.4	52.3	24.5	0.3
16:30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	2.6	22.6	53.9	19.4	0.0
17:00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	3.5	28.1	52.7	9.4	0.0
17:30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	6.1	34.8	53.9	3.9	0.0
18:00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	9.0	43.9	45.5	0.6	0.0
18:30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	12.3	53.5	32.9	0.0	0.0
19:00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	13.9	62.3	21.6	0.0	0.0
19:30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	18.7	65.2	14.2	0.0	0.0
20:00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	23.2	63.5	11.3	0.0	0.0
20:30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	25.9	64.7	6.8	0.0	0.0
21:00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	30.3	62.9	4.5	0.0	0.0
21:30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	32.9	62.6	2.6	0.0	0.0
22:00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	37.1	58.4	2.3	0.0	0.0
22:30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	41.3	53.5	1.3	0.0	0.0
23:00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	45.5	50.3	1.0	0.0	0.0
23:30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	52.4	42.4	0.6	0.0	0.0
BREDNJA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	25.3	35.2	28.3	8.3	0.1

NAPOMENA Interval 5-10 predstavlja raspon od 5,0 do 9,9 uključujući i te vrijednosti. Slučajevi kada se određena pojava nije javila i kada je relativna čestina 0 u tabeli su obojeni bijelom bojom.

Aerodrom Podgorica (LYPG) - Godina (Jan-Dec)



Tišine: 3.3 %
Varjabilni vjeter: 26.1 %

Montenegro -CBIT



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Development of the Fourth National Communication and
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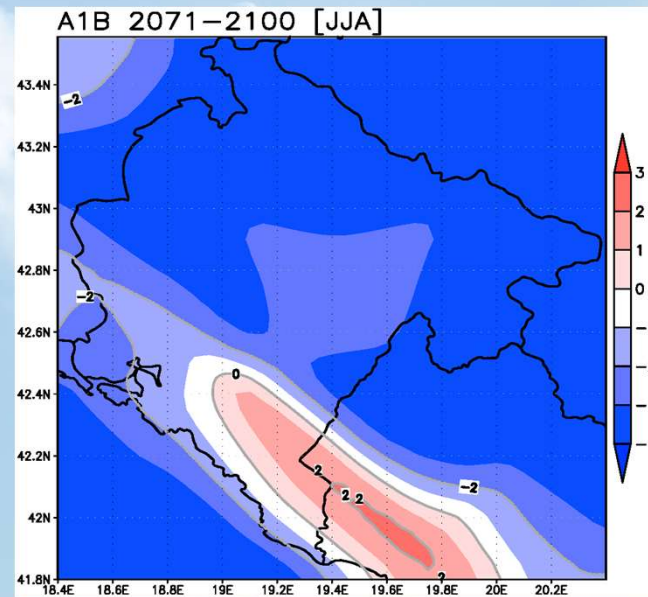
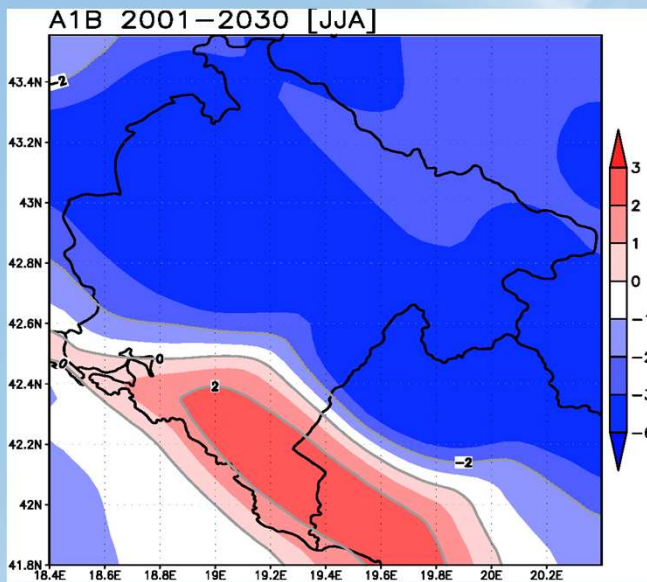


Montenegro
Ministry of Tourism, Ecology,
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The connection between climatographs and climate change

Mean maximum wind speed



The escalation of extreme weather phenomena, characterized by intense precipitation and strong winds, underscores the heightened vulnerability of this area to potential damage from strong winds and an elevated risk of flooding

Strengthening Nationally Determined Contribution (NDC) and Adaptation Activities Transparency Framework for Montenegro -CBIT



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Following activities:

1. Enhancing data in gender statistics related to climate change (outcomes 1 and 4)
2. Development of a guide outlining the impact of climate change on the health of both women and men
3. Formulating climate scenarios, socio-economic scenarios, vulnerability assessments for climate change, and gender impact assessments for priority sectors, plans, and programs proposing adaptation measures (for sectors not covered in the National Adaptation Plan)
4. Review on previous National Communications and overview of the current circumstances, policies and institutional arrangements relevant to the preparation of 4NC and 1BTR

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- Synergy with other climate actions/projects:

1. Climate Promise 2
2. Just Transition Roadmap
3. CBIT
4. NAP

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Advice for those just starting/ mistakes to avoid:

1. Be aware of the context in which reporting takes place
2. Fully leverage of institutional memory
3. Include formal mechanisms in process such as the National Council for Sustainable Development and its Working Groups
4. Utilize the experiences and best practices of other countries - enhance cooperation

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Thank you for your attention!
drobnjakjovana@gmail.com

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