



РЕПУБЛИКА СРБИЈА
Министарство
заштите животне средине
REPUBLIC OF SERBIA
Ministry of
Environmental Protection



DEVELOPMENT OF CLIMATE CHANGE
MONITORING, REPORTING AND
VERIFICATION (MRV) SYSTEM

TRAINING SESSION ON PROJECTIONS AND SCENARIOS

15 DECEMBER 2021

PURPOSE

- To collect and merge information on climate mitigation projections and scenarios
- To assist and enable Serbia to fulfil its international reporting obligations according to the UNFCCC (MPGs) and the EU Governance and its Implementing Regulation
- To visualise projected emissions trends (total and sectoral)
- To make projections and scenarios publicly available
- To track progress and effectiveness of Serbia´s policies and measures

REPORTING REQUIREMENTS

- **UNFCCC:**

- The modalities, procedures and guidelines (MPGs) for the transparency framework for action and support, referred to in Article 13 of the Paris Agreement are defined in **Decision 18/CMA.1**.
- paras 92–102: **Projections of greenhouse gas emissions and removals**

- **EU:**

- Governance Regulation (EU 2018/1999) and Implementing Regulation (EU 2020/1208):
 - **Article 39: Reporting on national projections**
 - **Annex XXIII of the Implementing Regulation**
- are fully in line with the Paris Agreement
- reporting by 15th March 2021 and every two years thereafter; substantial changes to the information shall be communicated annually

- **Serbian Climate Change Law**

- Articles 62 to 65: Projections of greenhouse gas emissions and removals, and reporting

UNFCCC

Decision 18/CMA.1, paras 92–102: **Projections of greenhouse gas emissions and removals, as applicable**

- Countries **shall** report on scenarios **with existing policies and measures** and may report on scenarios with additional policies and measures.
- Each Party should provide information in describing the methodology used to develop the projections. This information should include:
 - (a) **Models** and/or approaches used and **key underlying assumptions and parameters** used for projections (e.g. gross domestic product growth rate/level, population growth rate/level);
 - (b) Changes in the methodology since the Party's most recent biennial transparency report;
 - (c) **Assumptions on policies and measures** included in the 'with measures' projections and 'with additional measures' projections, if included;
 - (d) **Sensitivity analysis** for any of the projections, together with a brief explanation of the methodologies and parameters used.
- Projections shall be presented in graphical and tabular formats.

EU GOVERNANCE REGULATION

The reporting obligations concerning policy and measures are defined under the Governance Regulation (EU 2018/1999) and under Article 38 of the Implementing Regulation (EU 2020/1208). The format is laid down in Annex XXIII of the Implementing Regulation.

EU GOVERNANCE REGULATION

Article 18 **Integrated reporting on greenhouse gas policies and measures and on projections**

1. By 15 March 2021, and every two years thereafter, Member States shall report to the Commission information on:
 - (a) their **national policies and measures** or group of measures as set out in Annex VI; and
 - (b) their **national projections** of anthropogenic greenhouse gas emissions by sources and removals by sinks, organised by gas or group of gases (Hydrofluorocarbons and Perfluorocarbons) listed in Part 2 of Annex V. **National projections shall take into consideration any policies and measures adopted at Union level** and shall include the information set out in Annex VII.

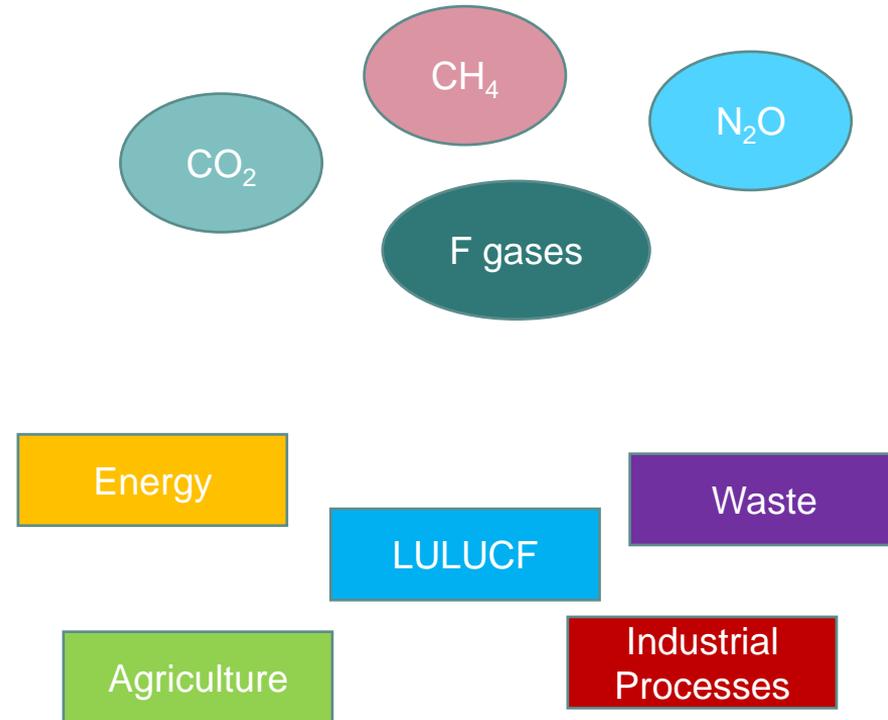
EU GOVERNANCE REGULATION

Annex VII Integrated reporting on greenhouse gas policies and measures and on projections

- (a) projections without measures where available, **projections with measures**, and, where available, projections with additional measures;
- (b) total GHG projections and separate estimates for the projected GHG emissions for the emission sources [...];**
- (c) the **impact of policies and measures [...]**
- (d) results of the **sensitivity analysis** performed for the projections and information on the models and parameters used;
- (e) all relevant **references** to the assessment and the technical reports that underpin the projections [...]

EU IMPLEMENTING REGULATION: ARTICLE 38

(1) Member States shall report the information on their national projections of anthropogenic greenhouse gas **emissions by sources and removals by sinks, organised by gas or group of gases**, referred to in Article 18(1)(b) and point (a) of Annex VII of Regulation (EU) 2018/1999 in the format set out in Annex XXV to this Regulation.



EU IMPLEMENTING REGULATION: ARTICLE 38

- (2) Member States shall provide the additional information on their national projections [...], specifying:
- the projection results for total greenhouse gas emissions [...]
 - the results of the sensitivity analysis performed [...]
 - for the total reported greenhouse gas emissions, together with a brief explanation of which parameters were varied and how;
 - split on total emissions covered ETS, ESR, LULUCF
 - the year of the inventory data (base year) and the year of the inventory report used as a starting point for the projections;
 - the methodologies used for the projections, including a brief description of the models used and their sectoral, geographical and temporal coverage, references to further information on the models and information on data sources, key exogenous assumptions and on the parameters used

EU IMPLEMENTING REGULATION: ARTICLE 38

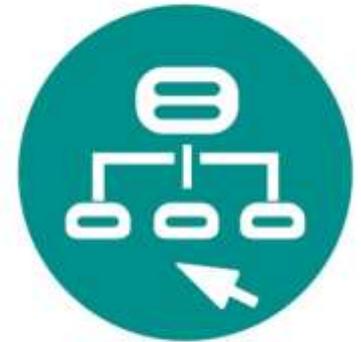
(3) In the reports on projections, [...], Member States shall take into account the **harmonised values for key parameters for projections** – at least for oil, gas, and coal import prices as well as for carbon prices under the ETS – which the **Commission has recommended**, in consultation with the Member States, 12 months before the deadline for submission of the reports.

EU IMPLEMENTING REGULATION: ARTICLE 36

Union and national systems for policies and measures and projections

By 1 January 2021, Member States [...] shall operate and seek to continuously improve national [...] systems [...], for reporting on policies and measures and for reporting on projections of anthropogenic greenhouse gas emissions by sources and removals by sinks.

Those systems shall include the **relevant institutional, legal and procedural arrangements** established within a Member State and the Union for evaluating policy and making projections of anthropogenic greenhouse gas emissions by sources and removals by sinks.



SERBIA'S CLIMATE CHANGE LAW

Article 62

Projections of GHG Emissions from Sources and Removals by Sinks

The Ministry shall **prepare projections** of anthropogenic **GHG emissions from sources and their removals by sinks** (hereinafter: projections) as a basis for determining and assessing the possibility of limiting GHG emissions, adopting policies and measures for economically viable limitation of GHG emissions, as well as for monitoring the GHG emission limitation.

Projections are made for **gases or groups of gases**, as well as for **sectors and categories**, and improved if necessary.

Projections for the relevant sectors are made **in cooperation with the relevant Ministries**.

SERBIA'S CLIMATE CHANGE LAW

Article 63

GHG Policies, Measures and Projections Reporting System

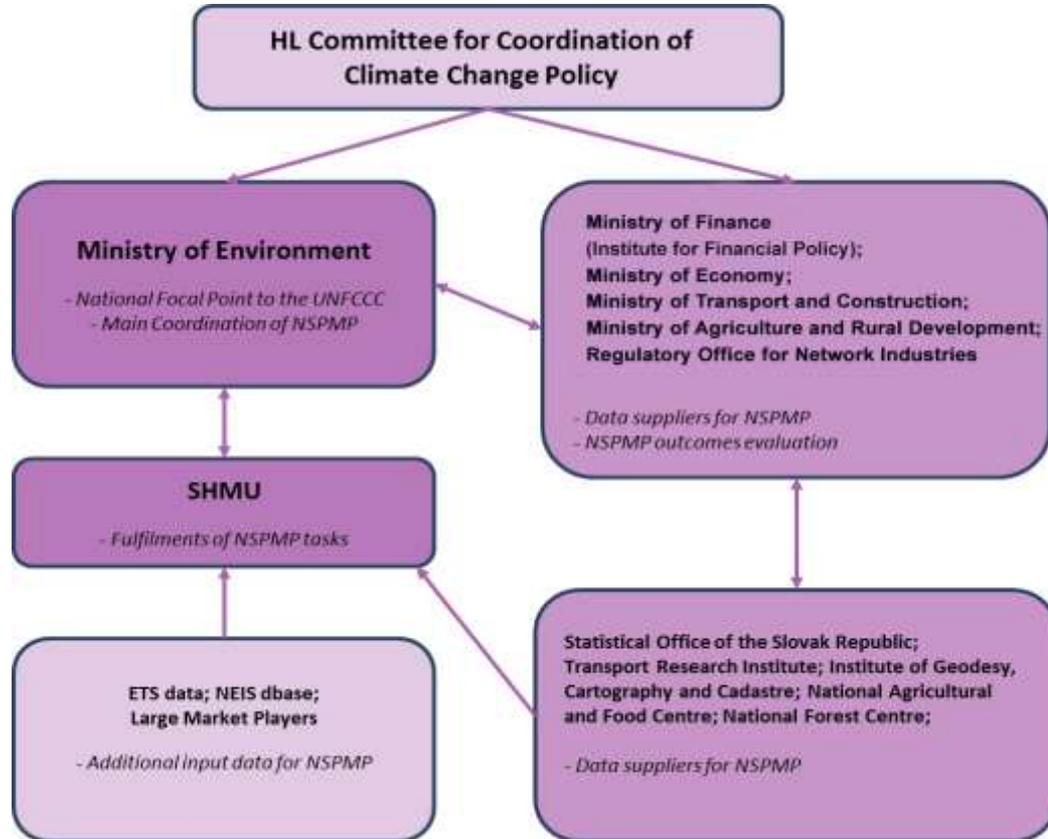
In order to ensure the timeliness, transparency, accuracy, consistency, comparability and completeness of information on policies, measures and projections, **a system for reporting on GHG policies, measures and projections of shall be established**, maintained and continuously improved.

The system includes **institutional, legal and procedural mechanisms** for reporting on policies, measures and projections of anthropogenic GHG emissions from sources and removals by sinks.

Bodies and organisations, including bodies and organisations of **local self-governments** in charge of environmental protection, shall assess the effects of policies and measures at the level of GHG emissions from their competence and report thereon to the Ministry.

The Government shall determine the list of bodies and organisations referred to in paragraph 3 of this Article, the **content, form and deadlines for reporting to the Ministry**.

ORGANOGRAMM OF SLOVAKIA



RECOMMENDATIONS

- organise regular meetings with
 - all ministries and organisations which are involved in the preparation of projections,
 - Most important data providers, and
 - members of the National Climate Change Committee.

This ensures a common understanding of the assumptions and data used and scenarios which are agreed on by all relevant parties.

- prepare an annual time-line
- develop QA/QC procedures

January – March (year X)	Disaggregation of the base year emission inventories * data according to the structure required by models
March – June (year X)	Processing of ETS data for the base year* and for key sources
April – July (year X)	Processing of energy statistic data for the base year*

SUMMARY

- Set up a national system for projections and policies & measures, including stakeholders and data providers, with clear definitions and responsibilities for all functions
- Prepare GHG emission scenarios with existing measures and – voluntarily – with additional measures
- Share the results of your modelling exercise with all relevant ministries and stakeholders and with the national climate change committee
- Describe the models and the parameters used and the results of a sensitivity analysis, using the UNFCCC and EU reporting templates stored in the MRV IT tool
- Define indicators for different policies and measures to monitor their effect and to adjust your projections

