



ECRAN Regional Training Seminar on National Systems for GHG inventories (and projections)

Experience and capacities in Serbia

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Current GHG Inventories

- The Republic of Serbia has realized in 2010 its 1st National Communication (INC) as a Non Annex 1 Party to the UNFCCC. This first inventory concerned two years of reporting, 1990 and 1998 and 2015 for projections.
- The GEF/UNDP **BUR** (including the Inventory chapter) is completed, **adopted in January** and then submitted to the UNFCCC
- At the same time, the Republic of Serbia is currently working on its GHG Inventory for the GEF/UNDP Second National Communication (SNC), which is expected to be published in 2016.
- **The BuR and SNC GHG Inventory was developed by SEPA, and later reviewed and further improved by the Faculty of Mechanical Engineering (University of Belgrade).**
- The Republic of Serbia has the challenging goal to be prepared for the Annex 1 reporting. The **SNC and the BUR will report 1990 – 2013 GHG emissions** consistent with the IPCC 2006 Guidelines in terms of methodology.
- **Projections and mitigation programme for the period till 2020, 2030** is being prepared by Faculty of Mechanical Engineering and using relevant model (**LEAP model**). **Long-term framework mitigation strategy by 2020/2030/2050**, following the EU Roadmap 2050, will be prepared.

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Institutional arrangements

- **Ministry of Agriculture and the Environmental Protection is a National Focal Point for UNFCCC**, while **Inventory preparation** is under responsibility of Serbian Environment Protection Agency (**SEPA**).
- Establishment of a National GHG Inventory is required by Article 50 of the Law on Air Protection in order to monitor emissions and removals of greenhouse gases.
- National inventory is conducted by the Environmental Protection Agency (SEPA).
- In accordance with the obligations under this section in the Department of National Register of polluters sources of the Agency, in 2012 began with the establishment of the National inventory of emissions of greenhouse gases.

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Result 1: Functioning Institutional Arrangements

Functioning Institutional arrangements: A set of short term institutional building blocks in place to allow future recurring reporting and continuous improvement on GHGs

Indicator of achievement	Policy regarding institutional arrangement on MMR adopted by the Government in next two years
Sources of information	Official gazzete
Assumptions/Risks	Lack of political willingness to adopt necessary legislation

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Result 2: Building a team

Building a team: A team has been built and trained to fill the identified institutional arrangements

Indicator of achievement	Number of workshops and attendee in next two years
Sources of information	Minutes of the meetings from the workshops
Assumptions/Risks	Insufficient number in the relevant institutions available for trainings, insufficient motivation

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Institutional arrangements

- Other institutions which are relevant contributors for the GHG Inventories are:
 - **The Statistical Office of the Republic of Serbia (SORS)** which is publishing sectorial statistics for the Republic of Serbia (energy, industry, transport, agriculture, forestry, etc.). It is also in charge of producing the annual Serbian Energy Balance (EB) and reports those data to Eurostat and International Energy Agency (IEA).
 - **Ministry of Mining and Energy (MME)** – Strategy Planning Office: Based on their own survey to energy suppliers and transformation operators, this section of the MME carries out annually a three years energy balance containing data from the previous year, the current year and a forecast for the following year. The Strategy Planning Office is also in charge of the Energy strategy.
 - **Ministry of Internal Affairs** - Police: The Serbian Police is responsible of the vehicle registration and maintain the related database.
 - **Customs Office.**
 - **Public enterprises** (PE EPS, etc.)

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Result 3: Data Supply security & Result 4: Delivering a quality and effective GHG inventory

Data supply system developed & A quality and effective GHG inventory for year X - 2

Indicator of achievement	Legislation in place (adopted laws and by-laws in next two years)
Sources of information	Official gazette
Assumptions/Risks	lack of political willingness to adopt necessary legislation

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GHG projections

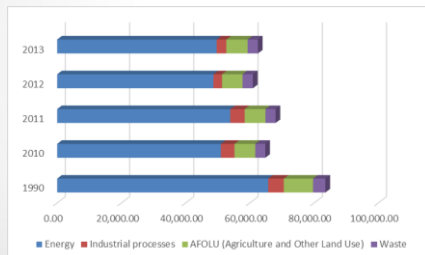
- The first preliminary projections were made for a purpose of support to the **Copenhagen Accord**. The INC included projections until 2012 and 2015.
- Under the GEF projects: "**Second National Communication (SNC)** of the Republic of Serbia to the UNFCCC" and "**First Biennial update report (FBUR)** under the UN Framework Convention on Climate Change" that are on-going, for the **first time GHG modeling** is conducted. Projections will be made for the period **2020, and 2030 and overall 2050**.
- Moreover, preparation of these GHG projections will be a **basis** for the preparation of **Climate change strategy**, with Action plan (CCSAP). CCSAP shall be developed under IPA 2014 project.
- **Currently, there is no legally defined responsibility of specific institution(s) for projections, while this as well as QA/QC procedures will be defined and legally prescribed under the IPA 2013 project: "Establishment of mechanism for the implementation of MMR". The project has began in May 2015.**

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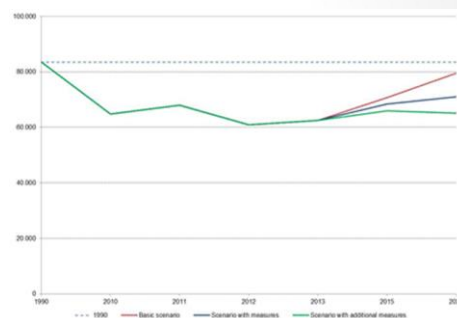
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BuR Inventory and mitigation

GHG emissions by sectors,
1990, 2010-2013
(Gg CO₂ eq)



Aggregated GHG emission
trend and projections 1990-
2020 for three scenarios (Gg
CO₂ eq)



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Result 5: Marketing the inventory

Increased awareness on advantages and opportunities for the country of a strong inventory framework

Indicator of achievement	Number of workshops, media releases, publications
Sources of information	Minutes from the workshops, list of participants, media , website
Assumptions/Risks	No or low interest of the relevant stakeholders for the subject

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SNC and BuR Inventory

- Under the activity 2.6. of the **IPA 2012 project**: "Establishment of a monitoring, reporting and verification system necessary for the effective implementation of the EU emissions trading system (EU ETS)", **analysis on compliance of National GHG inventory's preparation with the EU and UNFCCC requirements was conducted**. Main conclusions are "even SEPA is already going further than its current requirements (Serbia is non-Annex I), further activities will be **necessary to fill in some gaps** between the works currently carried out and Annex I countries obligations; Based on recommendations it is needed to:
 - Improve the **completeness and the transparency** in order to fulfil completely the requirements of an Annex I country,
 - Develop of a detailed description of the **methodologies** applied, presenting input data, justification of the parameters' selection, assumption,
 - Provide **explanations for dips and gaps** in the emissions time series for all the calculations realized outside the IPCC Tool,
 - Present the **planned improvements** in the inventory reports.

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GHG Reduction in Serbia

- ✓ **INDCs and aforementioned documents and analyses show that total national GHG emission level in 2030, will be - 9.8% compared to emissions in 1990.**
- Moreover, the **Climate change strategy and Action plan** that should be developed under the IPA 2014, will provide detailed **analysis of possibilities, options and reachable targets** for the period 2020 and 2030. The Strategy will cover and identify mitigation potentials/targets for sectors included in Effort Sharing Decision (ESD).
- MAEP initiated the IPA 2013 project: "**Establishment of mechanism for the implementation of MMR**" which main aim is transposition and preparation for implementation of **Regulation (EU) No 525/2013** and **Effort Sharing Decision - Decision 406/2009/EC (ESD)** and their following legal acts.

The main aim of the project is to establish institutional and procedural arrangements, legal framework and strengthen administrative and institutional capacities of the relevant bodies for the implementation of MMR and ESD.

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Result 6: Other

QA/QC procedures needed for National Inventory System in place & Legal framework for implementation of the Regulation

Indicator of achievement	Legislation in place (adopted laws and bylaws by the end of 2017)
Sources of information	Official gazette
Assumptions/Risks	Lack of political willingness to adopt necessary legislation

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Twinning project: Establishment of a mechanism for implementation of MMR



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Twinning project: Establishment of a mechanism for implementation of MMR

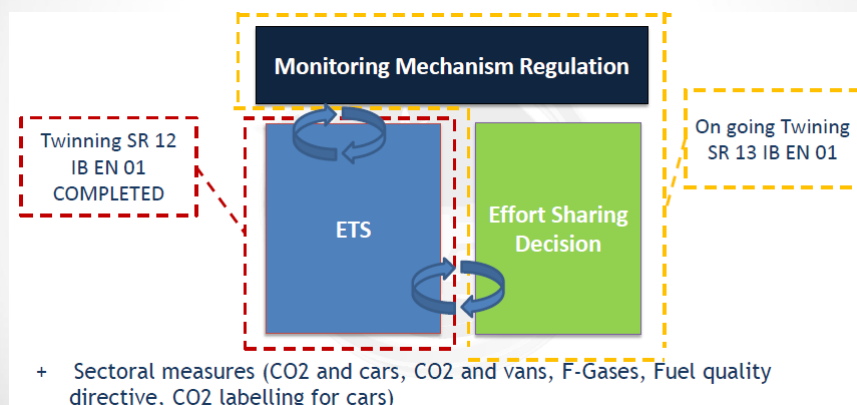


- Twinning partner: France
- Starting date: May 2015
- Duration: 24 months
- Budget: 1,2Mio€ (IPA2013) of which 1,0Mio€ represents EU donation
- Project Components
 - Institutional and procedural arrangements for implementation of MMR and Decision 406/2009 established
 - Legal framework for implementation of the Regulation (UE) 525/2013 and the monitoring and reporting requirements of Decision 406/2009/EC established
 - Administrative and institutional capacities of the relevant bodies in the field of climate change strengthened
- More than 500 man-days of expertise will be provided
- Serbia established a **special MMR working group** involving all the relevant governmental institutions and stakeholders

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Twinning project: Establishment of a mechanism for implementation of MMR



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