

National System for GHG inventories (and projections) of Montenegro

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Current situation with agreements and laws

- Montenegro ratified UNFCCC by succession in 2006 and become a member of Convention as a Non-Annex Party on 27 January 2007;
- The Kyoto Protocol was ratified on 27 March 2007;
- Low on air protection;
- Regulations on the list of gases and method of preparing an GHG Inventory and information exchange;

First steps

- The first step was to recognize by the law national institution for maintenance GHG Inventory- EPA (by the Law on air protection);
- In start EPA has had only one employee and after the RENA project we realized that is not enought . We received advice from RENA consultants about EPA's staff. For a Montenegro, which is with very few sources of emissions and with current obligations, required number of staff is 3;
- Current situation in EPA is three advisers for maintenance GHG Inventory and they are learning trough the italian-montenegrian bilateral cooperation (italian technical support) RENA, ECRAN projects and trough the real work (IINATCOM, First BUR...);

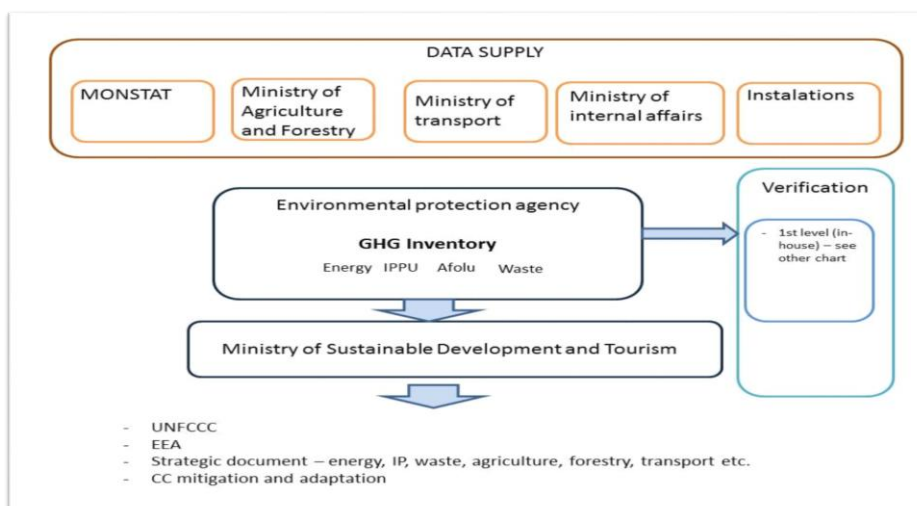
First steps

- To recognize data providers and to stay in contact with them (Statistical office, Ministries, installations , Hydromet institute ...). Now they send us input data but still on voluntary based in informal format i.e. not official format (hard copy, by e-mail, sometimes as Word document, sometimes as Excel sheet...).
- Data providers have not in their official job description part which is describes duties on Inventory data but fortunately our cooperation is still good;

MRV of Montenegro

- Together with 1st BUR Montenegro working on MRV (Measurement Reporting and Verification System) and they will be finished by the 2015- with external support ;
- Now we have final drafts of documents which is describe National GHG Inventory system;

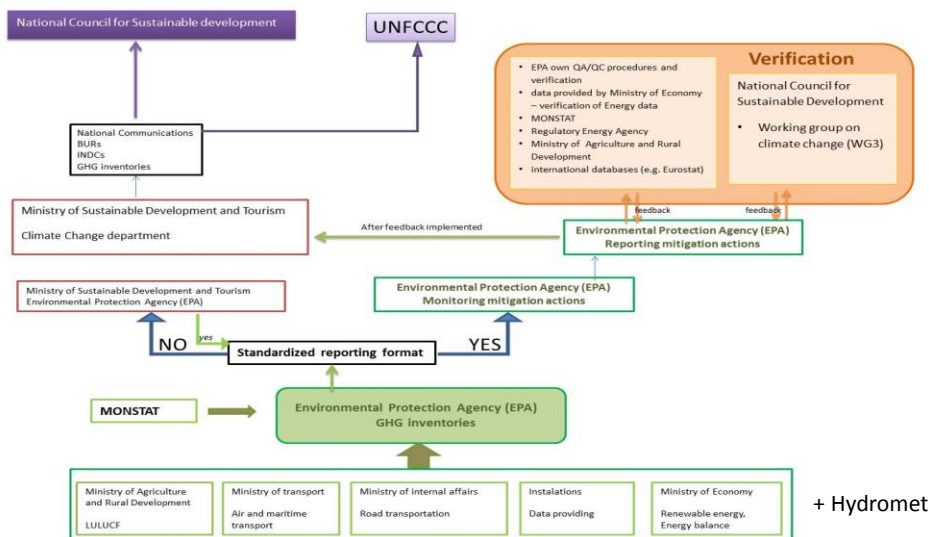
The arrangement of the GHG inventory preparation process in Montenegro according to MRV



The data for the greenhouse gas inventory are obtained from various sources, specifically for every sector;

These data are obtained by the team (3 employees) in EPA, which is responsible for compiling of the greenhouse gas inventory;

Proposed institutional arrangements for MRV scheme in Montenegro



- EPA is conducting its own quality control procedures (by external help). The quality control is carried out using data provided by Ministry of Economy as well as Regulatory Energy Agency and also data collected by Ministry of Agriculture and Rural development is used. MONSTAT by itself is having its own verification procedures, which also includes official control from Eurostat. This is important part of the verification of activity data. As third party for verification is used Working Group on Climate Change under National Council of Sustainable Development. EPA is obtaining comments from all experts and institutions participating on the verification and the comments are reflected in the final reporting. Since the reporting is complete, it is forwarded to Ministry of Sustainable Development and Tourism (Climate Change Department) which is then responsible for the official reporting to international bodies.
- There is no IPCC 2006 QA/QC procedures;
- GHG and LRTAP Inventory will be part of Environmental Information System (ongoing project) and because of that is necessary to create standardize template for input-activity data which will be fill by data provider. That will be help EPA process data i.e. use them in calculation tool after that;
- Emission projections are made externally for the purpose of NATCOM, BUR, Strategy... There is still no official national institution which is responsible for projections;

Results

- Submitted IINATCOM with GHG Inventory 1990-2011 (IPCC 1996);
- Recalculated GHG Inventory 1990-2011 and estimated GHG emissions for 2012 and 2013 with IPCC tool Version 2.10 according IPCC 2006 methodology;
- NIR for 1990-2013;
- 1st BUR in final phase (by the end of 2015);
- Submitted National Climate Strategy;
- Through the ECRAN project Montenegro received support to define **Intended Nationally Determined Contribution (INDC) following decision 1/CP.19 and decision 1/CP.20**. Consultants used and analyzed all previous data and listed documents. Montenegro's contribution to the international effort to avoid dangerous climate change is expressed in **30 % emission reduction by 2030 compared to the 1990 base year**. The reduction is to be achieved by general increase of energy efficiency, improvement of industrial technologies, increase of the share of renewables and modernization in the power sector;

Future activities of Montenegro as non-Annex I country

- To improve system for emissions calculation in sense that EPA not depend on the external assistance (to train EPAs staff);
- To improve QA/QC control according to IPCC 2006;
- To create an annual program of Inventory data collection and in compliance with it to create activity/input data template (as part of IS);
- To be official National Inventory system, not voluntary based;
- A precondition for all this is to finish harmonization of national legislation in the field of climate change with EU.

Thank you!