

National Systems for GHG Inventories

Country presentation - MK

ECRAN Regional Training Seminar on
National Systems for GHG inventories (and projections) - part 3,
Podgorica, 28-29 June, 2016

Overview

- ▶ Shape of National System
- ▶ Progress with activities and outlines of country fiche
- ▶ Current status of the National system and methods used for estimating GHGs
- ▶ Experience with recent activities
- ▶ Open issues

Shape of National System

- ▶ GHG inventory coordinated and reported by the **Ministry of Environment and Physical Planning** (Law on Environment).
 - ▶ National System Coordinator and Manager
- ▶ **RCESD-MASA** responsible for coordinating and supervising (QA) sectoral experts.
 - ▶ Sectoral Experts (Enterers)
 - ▶ QA/QC Experts (Checkers)
 - ▶ External Local Experts

- ▶ Two experts for each of the GHG Inventory sectors:
 - ▶ **Enterer**, responsible for identifying/verifying data sources, collecting, entering and documenting the input data (activity data and emission factors)
 - ▶ **Checker**, responsible for checking and validating the input data and emission estimates, as well as the inventory documentation.
- ▶ **National Committee on Climate Change**
(representatives of different governmental, non-governmental, business and academic institutions)
closely involved in providing recommendations for resolving the identified data gaps

Progress with activities
and outlines with country
fiche

Data supply security (1/2)

- ▶ **Software solution EMI (Emissions Monitoring in Industry) for the industry sector developed**
 - ▶ A web based platform that gathers data directly from the industry installations (annual production, feedstock usage, and specific production process details)
 - ▶ Data collection for three inventories required from the industry sector- GHG inventory, Air pollutants cadastres and Cadastre of polluters, ensured.
 - ▶ Only one user friendly on-line form that appointed representatives from the industries fill only once per year
 - ▶ The experts from different departments can have access to the raw data and the reports with a separate administrative account

Data supply security (2/2)

- ▶ A number of **relevant stakeholders from public and private sector** involved in the development of the GHG inventory
- ▶ **Increased access to information and data** relevant for introducing more detailed methodology and development of country-specific emission factors
- ▶ **Direct contact** with installations and other national and governmental institutions, including the Chamber of Commerce and the State Statistical Office, proved essential in obtaining unpublished data collected only for internal purposes.
- ▶ **Several subsectors introduced** for the first time (e.g. aviation)
- ▶ **A long-term agreement for cooperation** and data exchange between the Macedonian Air Navigation Services Provider M-NAV and the MOEPP concluded.

A country fiches

- ▶ **Drafting legislation for full MMR implementation**
- ▶ **Institutionalising the GHG inventory preparation through ANALYTICAL UNIT which should ensure:**
 - ▶ Technical and analytical support of the policy making and strategic planning in the areas of climate change and energy
 - ▶ Harmonization of the national climate and energy policies and strategies
 - ▶ Consistency in the utilized energy statistical data and planning models and tools, as well as a coherent approach towards approximation EU climate and energy targets
 - ▶ Robust and consistent reporting at national level (energy balances, national climate change statistics) and at EU and international level (UNFCCC, IEA statistics, Energy Community reporting, EU MMR reporting).

Current status of the
National system and
methods used for
estimating GHGs

High quality and effective GHG inventory (1/3)

- ▶ The GHG inventory database for the **period 1990 -2012** developed
- ▶ The latest **IPCC 2006 Inventory Software** tool used
- ▶ Six direct gases - **CO₂, CH₄, N₂O, PFCs, HFCs and SF₆**, and four indirect gases - **CO, NO_x, NMVOC and SO₂** included
- ▶ **Country-specific emission factors** for domestic lignite, HFO, natural gas introduced
- ▶ **Higher tier methodology** introduced in many subsectors, including the cement industry, aviation and railway transport.
- ▶ **QA/QC plan** developed under First Biannual Update Report

High quality and effective GHG inventory (2/3)

- ▶ The data documenting (activity rate, emission and conversion factor) implemented **directly in the worksheets of the IPCC software**
- ▶ Below each table in the software **links to the appropriate data** source included
- ▶ **Transparency** of data collection process and rationale behind the selection of appropriate emission factors across the inventory ensured

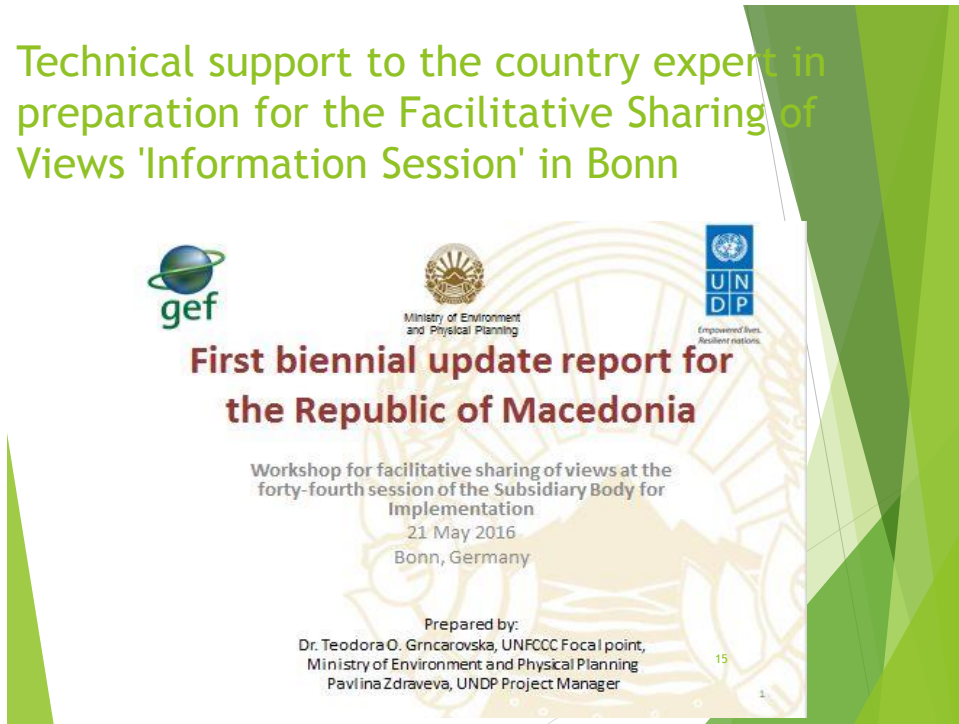
High quality and effective GHG inventory (3/3)

- ▶ **Key Category analyses** conducted
- ▶ **Uncertainty Approach 2** applied for IPPU (Approach 1 applied for all others)
- ▶ **Training materials** for national GHG inventory preparation developed

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Experience with recent activities

Technical support to the country expert in preparation for the Facilitative Sharing of Views 'Information Session' in Bonn



Scoping the Inventory component for the SBUR

- ▶ **Competent GHG inventory team** to be established which will capitalize on the already created technical capacity
- ▶ **QA/QC plan** to be implemented
- ▶ The GHG inventory database for year **2012** to be **revised and validated**
- ▶ The GHG inventory database for the period **2013-2014** to be **developed**
- ▶ **CRF** to be introduced

Support the national activities on ETS

- ▶ Review of the existing Roadmap for ETS Implementation
- ▶ Participation in ECRAN ETS workshop (18 - 19 May, Zagreb)

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Open issues

- ▶ Incompatibility identified between IPCC 2006 Software and Share point tables - AFLOU vs LULUCF
- ▶ Help is needed to enter the methods and emissions in Share point LULUCF tables

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