

EU GREENHOUSE GAS EMISSION INVENTORY

EU GHG inventory is unique! ~ compilation and review

- The EU GHG inventory: 2 submissions to UNFCCC
 - i. EU-27 ~ UNFCCC [26 MS 'Annex I' + Cyprus 01/01/13]
 - ii. EU-15 ~ Kyoto Protocol

- 3 pillars/instruments to make things work!
 - i. Legal basis: EU GHG Monitoring Mechanism Decision
 - ii. Institutional arrangements: EU National System for GHG inventories
 - iii. EU's WG1 of the Climate Change Committee: 27MS + EU National System

Effective cooperation/coordination between EU & MS is essential!



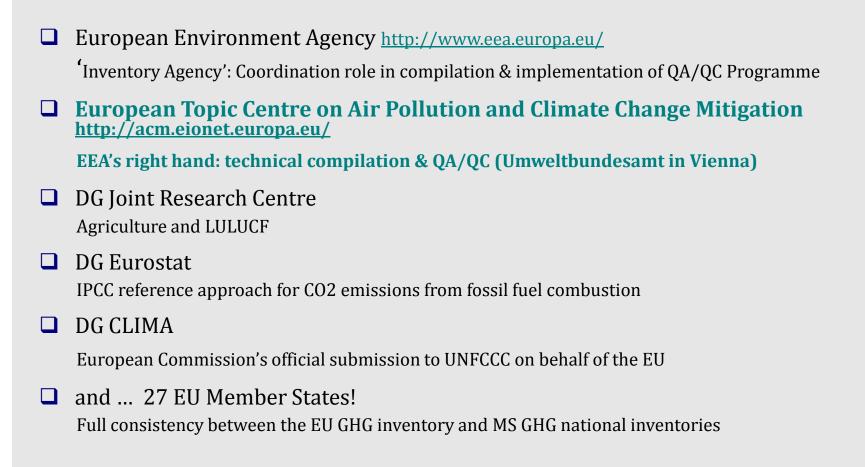
Reporting obligation under the EC GHG Monitoring Mechanism

Legal basis:

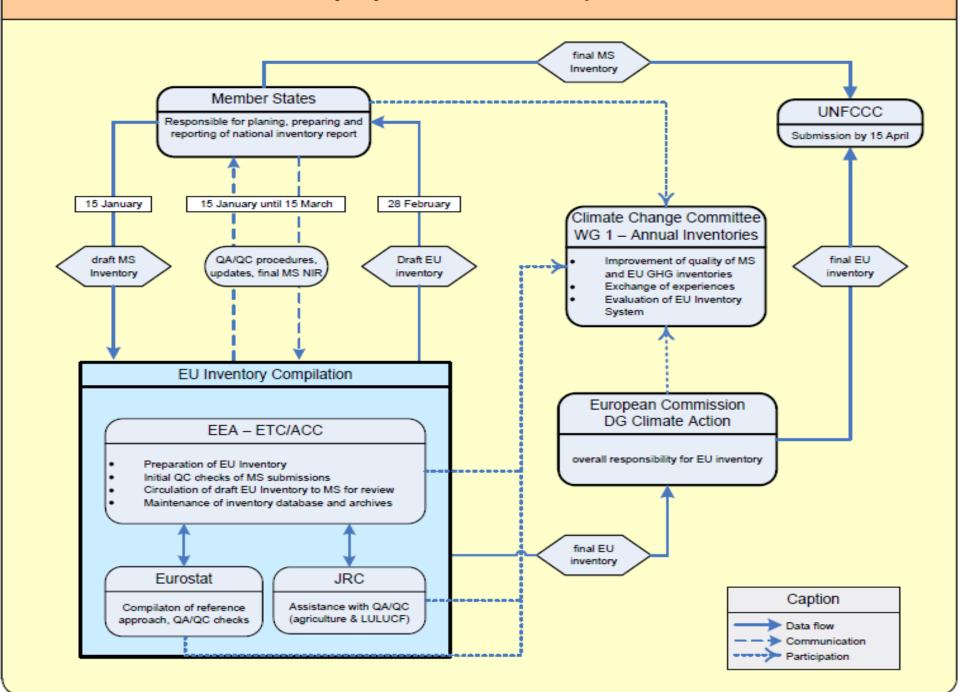
- Council Decision 280/2004/EC concerning a mechanism for monitoring Community greenhouse gas emissions and for implementing the Kyoto Protocol
 - Includes reporting requirements in particular Article 3.1 (GHG emission inventories) and Article 3.2 (GHG projections)
- Commission Decision 2005/166/EC laying down rules implementing Decision No 280/2004/EC
 - Includes details for reporting requirements and time schedule e.g.
 Annexes I-VI



Who is the EU's National Inventory System?



Inventory System of the European Union



The process of compiling the EC inventory 1/2

- * IPCC Guidance QA/QC
- * EU legislation: EU GHG Monitoring Mechanism Decision and its Implementing Provisions
- □15/01 > Draft GHG inventory submissions by MS
- □15-01/28-02 > 'initial QA/QC checks' of MS Draft submissions
 - 1. 'Status Reports': completeness & recalculations (Tier I, general QC procedures)
 - 2. 'Consistency Reports': sectoral QA/QC checks (Tier 2, source category-specific QC procedures)
- □28-02/15-03 > Consultation EU-MS experts on the 'initial checks'
- □15-03 > Final GHG inventory submissions under MMD

The process of compiling the EC inventory 2/2

- □ 15-03/end March > 'additional QA/QC checks' of MS 15-03 submissions
 - 1. Follow-up to 'Consistency Reports': issues for clarification
 - 2. Description of methodological changes and recalculations in MS NIRs
 - 3. Description of how MS have dealt with previous UNFCCC recommendations
 - 4. Preparation of missing GHG estimates by MS (gap-filling)
- 15-04 > Draft submissions of MS and EU GHG inventories to UNFCCC
- \square 15-04/15-05 > Potential resubmissions by some MS
- □ 27-05 > Final submissions of (some) MS and the EU to UNFCCC
- End May / early June > EEA publication ~ communication aspect
 - 1. Full GHG inventory submission (NIR and 26 Annexes, EU-15 & EU-27)
 - Press release
 - 3. Analysis 'Why did greenhouse gas emissions fall/increase in the EU in t-2?'
 - 4. Updated 'GHG data viewer' (32 EEA member countries) http://dataservice.eea.europa.eu/PivotApp/pivot.aspx?pivotid=475



Objectives of the QA/QC Programme

The EU's National Inventory System established the *EU QA/QC Programme*: Four key objectives:

- 1. The EU inventory should be fully consistent with MS inventories!!!
- 2. To contribute to the improvement of quality of MS inventories
- 3. To assist MS in the implementation of QA/QC programmes
- 4. Development of a *QA/QC Plan* and *quality objectives*

Quality objectives in the EU GHG inventory

- Overall objective: Implementation of the UNFCCC/KP and conformity with UNFCCC & IPCC Guidelines
- Quality principles are defined in the UNFCCC Reporting Guidelines (TACCC)
 - i. Transparency: Clear assumptions and methodologies
 - ii. Accuracy: unbiased estimates reflecting true emissions (no systematic error) + reduce uncertainty (improve precision)
 - iii. Consistency: Over all its elements and over time (time series)
 - iv. Comparability: Spatial, through agreed methodologies
 - v. Completeness: All countries + all sources & gases
 - vi. + Timeliness: Process for EU (internal) inventory compilation moved 3 months forward compared to official submissions to UNFCCC

The quality of EU GHG estimates reflects the quality of MS GHG estimates!



Similarities between Air polutants and GHG inventory

- Activity data
- Underlying methods
- QA/QC
- Key category analysis
- Uncetainty analysis
- NIR and IIR



Contact & Information

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