STATUS AND CHALLENGES WITH MONITORING FACILITY-LEVEL GHG EMISSIONS

MRV Regional Workshop
17 September 2014, İzmir
Country Context

UNFCCC

• Ratified on 24.05.2004 as an Annex-I and Annex-II Country
• Removed from Annex-II by decision 26/CP.7 in 2001 at COP 7
• 1/CP.16, 2010 “Recognizing that Turkey is in a situation different from other Annex-I countries”

Kyoto Protocol

• Ratified on 26.08.2009
• Not listed in Annex-B
• Not eligible for flexible mechanisms
Regulatory Framework

In April 25, 2012, MRV Regulation is adopted.

In May 17, 2014, MRV Regulation is revised.

Verification Communique will be adopted this year.

In July 22, 2014 MR Communique is adopted.
Step 1: Monitoring Plan
- Monitoring Plan Approved
- October 2014
- First Reporting in April 2016 (for Emissions in 2015)

Step 2: Annual Reporting
- GHG Emission Report
- Verifier
- First Reporting in April 2016 (for Emissions in 2015)
MRV System in Turkey

- Some 2000 installations expected to be in the scope
- ± 50% of national GHG emissions to be covered
- Public inst. (energy!), industry, consultants, verifiers, accreditation body... to be involved

- Problems with Industry
- Problems about Accreditation and verification
Stakeholder Consultation Meetings

Installation + Sector representatives

Cement
Steel
Pulp & Paper
Chemistry
Glass
Refinery
Ceramics
Working Groups

Public Institutions

Private Sector

MR Working Group (6 meeting)

MR Communique
Working Groups

Accreditation Body

Verifiers

VA Working Group (4 meeting)

VA Communique
MRV Training for Trainers

- MR Working Group
- Sector representatives from each sector
- Ministry of Energy
MRV System in Turkey

- Industry sector is open and willing for implementation
- They want to see their current situation and improvement opportunities
- They require one standard for comparability among themselves
- They are aware of technical challenges but eager to overcome
- Crediting/Trading/?, MRV is the backbone of any future mechanism
PMR Pilot MRV

Voluntary Installations:
- 18 Installation from Electricity sector (4 private+14 state owned)
- 5 Installation from Cement sector
- 1 Refinery

In the scope of Pilot MRV:
- Preparation of Monitoring Plans
- Preparation of 3 months emission reports
- Preparation of Verification Reports
- Gap Analysis Report
Capacity Building Project of MRV of GHG Emissions (GIZ)

- web-based system was built
- Guidelines were prepared
- Training need assessment
- Sectoral Trainings for each sub-sector of the Regulation
- Prepared a Monitoring Plan Template that is tailored into the local context
- MP template has been road-tested in a cement installation and finalized
Why we were in need of an MRV Pilot & capacity building?

- Lack of experience & capacity of:
  - Industrial sector (lack of in-house capacities and dedicated staff—particularly by local industries)
  - Verifiers (anticipated delayed validation/verification process, inconsistency and incompetence)
  - Consultancies (not locally experienced, learning by doing)
  - Regulatory bodies governing the system
Why we were in need of an MRV Pilot & capacity building?

- *Problems encountered in MRV systems*
  - Harmonization within and across sectors, for preparing inventories and the MRV process (e.g. varied coefficients, factors, selection approach)
  - Varied interpretation of unclear guidelines and rules
  - Varied data series, inputs by national institutions and other agencies (e.g. several sources on power plant efficiencies)
  - Lack of short term incentives for industry unlike in emission reduction projects
Why we were in need of an MRV Pilot & capacity building?

*Problems encountered in MRV systems*

- Adequate monitoring plan/system often missing
  - Who records what, how often?
  - Is all necessary data actually recorded?
  - Who reports what and when?
- Lack of monitoring infrastructure/tools
- Laboratories for calibrating/repairing tools not always available or too costly
- Electronic/systematic tools not planned well
Why we were in need of an MRV Pilot & capacity building?

*Problems encountered in MRV systems*

- Quality assurance and control systems are not in place
- Missing data due to technical problems, loss of staff members, etc.
- Country-specific data (e.g. emission factors) not always available
- Double counting
Thank you for listening.....

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