

Status on the development of GHG Inventories in Korea

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❖ Integrated management of Air pollutants and GHG

- ❖ verification plan by using TMS
- ❖ Guidance for the estimation of sectoral emissions

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Integrated management of air pollutants & GHG

Clean Air Conservation Act amended on Dec. 2005.

- ❖ Establishment of comprehensive measures for Air quality improvement (Article 7-5)
 2. Status and prospect of GHG emission concentration
 4. Establishment for GHG reduction target and measures by sectoral approach
 5. Impact assessment and adaptation measures due to Climate Change
 6. Integrated air quality management scheme for air pollutants and GHG
 7. International cooperation concerning climate change
- ❖ Development of GHG emission factor and management (Article 7-6)
 - Minister of MoE can develop GHG emission factor and manage it to make out official GHG emissions

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- ❖ Integrated measurement for Air pollutants and GHG

❖ verification plan by using TMS

- ❖ Guidance for the estimation of sectoral emissions

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Verification plan by using TMS

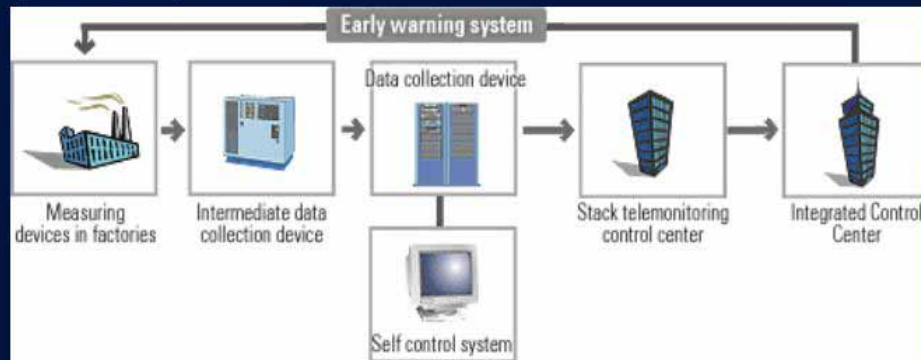
- Stack TMS Control Center-
- ❖ As of January '04, TMS installed in 1841 stacks in 317 installations
- ❖ Target Plants
 - Large scale plants generating large amount of air pollutants(1st-3rd grade industries in size)
- ❖ Objective
 - To use the collected data for environmental policies such as total pollutant load management, emission trading, environmental impact assessment etc.
 - To determine violation of the emission standard and estimation of the emission charge, etc

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Verification plan by using TMS

- Stack TMS Control Center-

❖ System Composition



❖ Functions

- Inspection of plants, Alarm, System management, Remote control, Data analysis & statistics

Verification plan by using TMS

- Verification -

❖ Main target line of business : Power plant, Iron and Steel, Petroleum, Cement, Paper, Petrochemical plant and etc

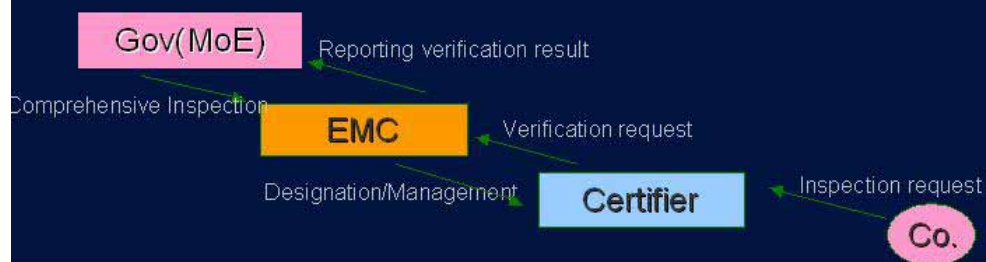
❖ Several methods of verification by using TMS

- Regular measurement using CO₂-sensor attached TMS

- Automatic calculation for CO₂ by use of O₂ concentration & flow rate measured with the TMS system

Verification plan by using TMS

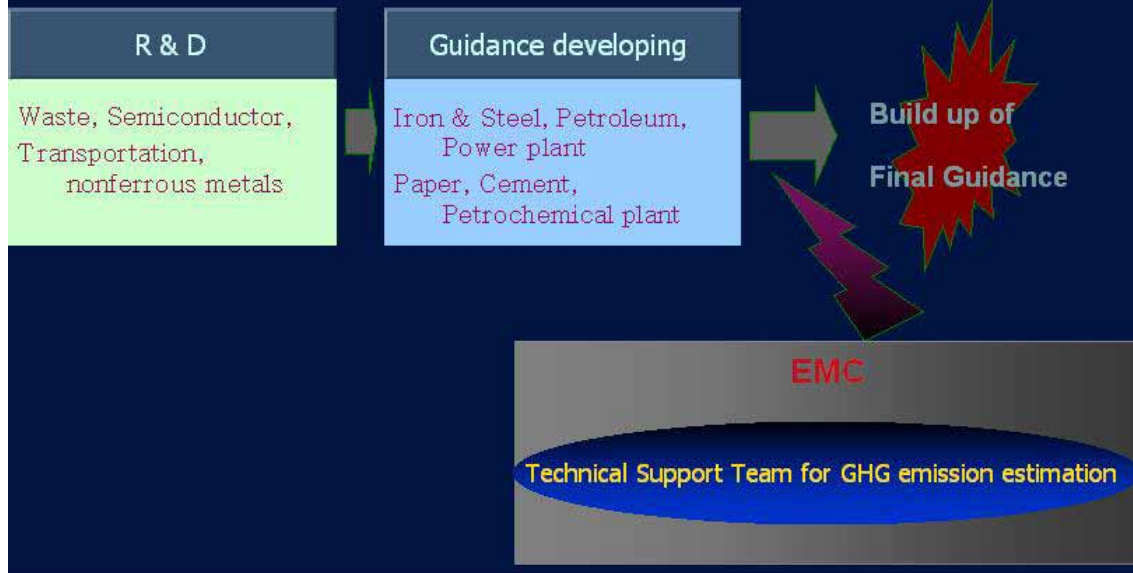
- ❖ 2006 Project outline
 - Targets : Major GHG emissions industry
 - 20 installations in voluntary plants
 - Automatic emissions calculation and emission factor derivation through CO₂ sensor attachment
- ❖ Verification Scheme



- ❖ Integrated management of Air pollutants and GHG
- ❖ Verification plan by using TMS

❖ Guidance for the estimation of sectoral emissions

The state of guidance development



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Thank you