DATA MANAGEMENT SYSTEMS AND LESSONS LEARNED IN CHINA

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Content

1. Type of GHG data management infrastructure
2. Institutional framework
3. Overall architecture of the GHG data management infrastructure
4. Cost considerations
5. Lesson learned
1. Type of GHG data management infrastructure

- **Type 1: National and provincial GHG inventory**
  - Provincial: Standard Format

- **Type 2: National Reporting and pilot ETS**
  - National: In progress
  - Provincial: complete management infrastructure
1. National reporting system (1)

Legal Framework

- Circular of NDRC about Conducting GHG Emissions Reporting Work of Key Enterprises

Reporting basis

- National MR guidelines
1. National reporting system

◆ Procedure

- Reporting and submitting by the entity
  - The entity should report the GHG emissions and submit to the provincial competent authority before 30th. March.

- Verification by provincial competent authority
  - The provincial competent authority should evaluate and verify the report in 3 months. For verification is unqualified, the entity subject rectification within a time limit, submit again.

- Submitting by the provincial competent authority.
  - The provincial competent authority should summarize and submit the verified data and reports to NDRC before 30th. June.
2. Institutional Framework in Pilot ETS

- Regulation on ETS management and trading
- CO2 Accounting and Reporting Guideline for Enterprises
- Reporting procedures for GHG emissions
- Regulation on the verification body
- ......

[Image]
3. Overall architecture of the GHG data management infrastructure

- **Participants**
  - Administrator: LDRC
  - Stakeholders: Emitters, Verification Body
3. Overall architecture of the GHG data management infrastructure

◆ Enterprise registration

Emitter

Reporting system

Administrator

1. Log on

2. Fill in information forms

3. Log on and check

4. Query and print

5. Relevant printed documents

6. Finish the enterprise registration
3. Overall architecture of the GHG data management infrastructure

Data management

Emitter

A1. Log on
A2. Initial emission report
A3. Select verifier
A4. Final emission report
A5. Printed documents

Reporting system

Verifier

A4. Final emission report
B1. Log on and check
B2. Verification report
B3. Printed documents

Administrator

C1. Emission determination
3. Overall architecture of the GHG data management infrastructure

◆ Rationale

• Ensure the accuracy and authenticity
• Facilitate data management capacity
4. Infrastructure of reporting system and cost Consideration

- Frame work design
- Software development
- System development
- Hardware platform
- Capacity building
- Maintenance
- Security

4.1 Infrastructure of reporting system

- Reporting system infrastructure development
- Cost consideration

4.2 Cost consideration

- Cost estimation
- Cost analysis
- Cost optimization

5. Lessons learned

- A complete data management infrastructure is necessary
- Reporting system online is of high efficiency
- In the first one or two years, the administrator pay the verification fee
- If necessary, the administrator can review the emission and verification report
Thank You

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