CHINESE MRV PRACTICE AT ENTERPRISE LEVEL

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Overview

- **Part I. Enterprise level of MRV in China**
- **Part II. Facility/Enterprise level MRV vs National/NAMA MRV**

- Existing MRV programs in China
  - Enterprise level
    - ETS Pilots
      - 5 cities: Beijing, Shanghai, Shenzhen, Tianjin, Chongqing
      - 2 provinces: Guangdong, Hubei
    - National MRG
      - Released
      - 10 sectors
  - Project level
    - CDM
    - CCER

National MRG

Finished guidelines:

- 10 sectors: Power Generation, Power T&D, Ceramics, Magnesium smelting, Electrolytic Aluminum, Iron & steel, Chemical, Flat Glass, cement, civil aviation

Ongoing development of guidelines:

- Development of guidelines for 10 more sectors are commissioned by NDRC

MRV in Pilots

Guidelines	• Have been developed • Some pilots have not yet officially published
GHG Accounting/ verification	• Historic emission accounting completed • Annual MRV is ongoing

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Coverage

Pilots	Sectors	GHGs
Beijing	Power, Heat, Cement, Petrochemical, Other Industries (e.g. Transportation equipment manufacturing, Liquor production) Service (Education, Health, Retail, State agency, Bank, Real Estate etc.)	CO2: (1) Direct emissions: fossil fuel combustion, industrial processes (2) Indirect emissions: Purchase and consume electricity and heat
Shenzhen	Power, 26 Industries (e.g. Electronic), Building , (Future: Transportation)	
Shanghai	Power, Industry: Iron & steel, Petrochemical, Chemical, Non-ferrous metal, Building materials, Textile, Paper making, etc Service: Aviation, Port, Airport, Railways, Commerce, Hotels, Finance	
Guangdong	Power, Cement, Iron & steel, Petrochemical	
Hubei	Power, Iron & steel, Petrochemical, Cement, Vehicle manufaturing, Non-ferrous metal, Glass, paper making	
Chongqing	Power, Aluminium, Ferroalloy, Calcium carbide, Caustic soda, Cement, Iron & steel	
Tianjin	Power, Iron & steel, Chemical, Heat, Petrochemical, Oil and gas production, Building	

Thresholds

Pilots	ETS	Reporting
Beijing	10,000 tCO2 / 5,000 tce consumption	5,000 tCO2 / 2,000 tce consumption
Shenzhen	5,000 tCO2 / 20,000 sqm (Building)	3,000 tCO2
Shanghai	20,000 tCO2 (industry) / 10,000 tCO2 (other)	5,000 tce consumption
Guangdong	20,000 tCO2	10,000 tCO2
Chongqing	20,000 tCO2	20,000 tCO2
Tianjin	20,000 tCO2	20,000 tCO2
Hubei	60,000 tce consumption	8,000 tce consumption

Accounting Boundary

- Accounting GHG within the boundary of legal person

Methodology choice

- Calculation-based methodology
  - *Standard method* for normal sector
  - *Mass balance method* for complex sector and production process
- Measurement-based methodology
  - Only in some pilots
  - Require additional proof of reasonable uncertainty

Verification – 3rd party

	Need a MP?	Initial Emission report submission	Verification report submission
Beijing	No	15 of April	30 April
Shenzhen	No	31 March	30 April
Shanghai	Yes	31 March	30 April
Guangdong	Yes	10 March	
Hubei	Yes	End of February	30 April
Chongqing	Not specified	20 January	20 April
Tianjin	Yes	30 April	

Part III. Facility/Enterprise level MRV vs National/NAMA MRV

Facility/Enterprise level MRV data can be used for building up national inventory or NAMA (Bottom up), but difference need to be considered carefully

- Aim of the Facility/Enterprise level MRV
- Boundary
- Avoid double counting
- Cost VS Precision
- Accuracy vs Conservativeness
- Baseline for NAMA

Q&A

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FOR FURTHER INFORMATION PLEASE CONTACT:

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