

China MRV System and Enforcement

China Quality Certification Centre (CQC)

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Content

-  **1. Framework of China MRV**
-  **2. MRV enforcement**
-  **3. Characteristics of China MRV system and suggestions**

1.1 Role of MRV

Under China ETS, high quality data is the basis for:

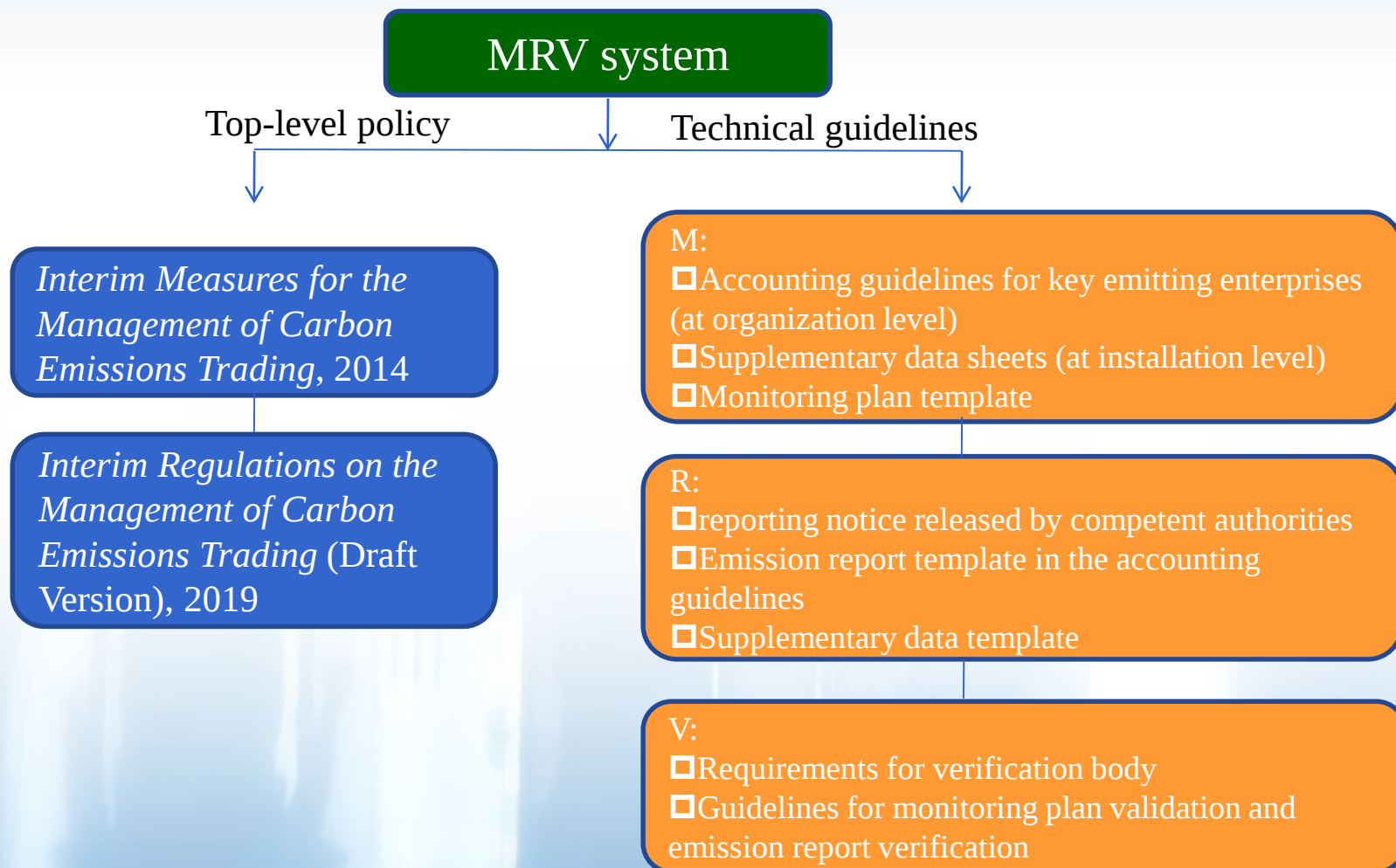
- the design of carbon trading system: cap
- carbon allowance allocation: benchmark, product data, historical emission data
- Allowance surrender: emission data
- emission reduction targets for enterprises

How to guarantee the data quality?

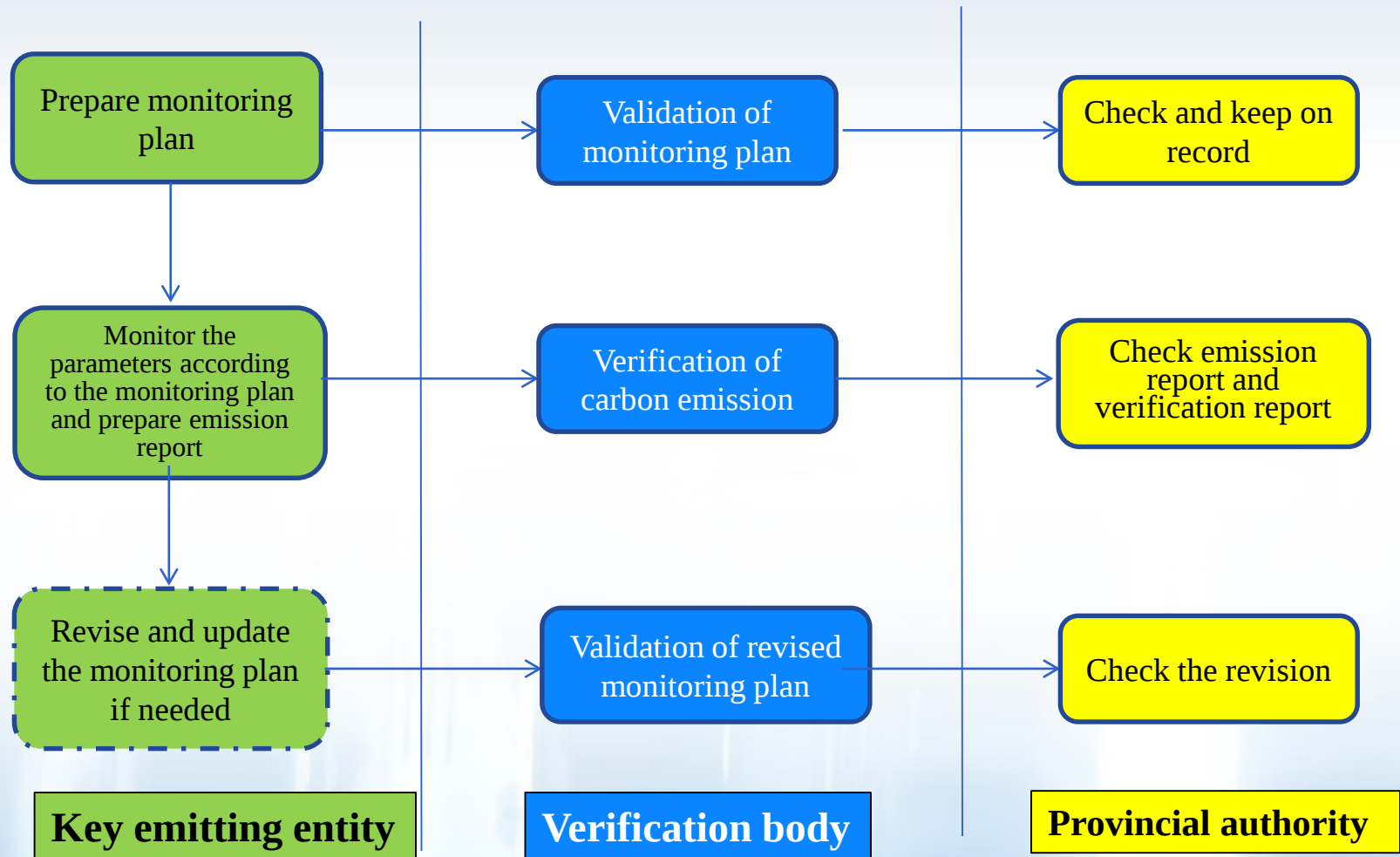
- MRV: a scientific and well-practiced system for data QA/QC

1.2 MRV policy and guidance

- Since 2013, China has established a MRV system including a series of MRV policies and guidances for ETS



1.3 MRV implementation



1.4 Requirements for M

Monitoring Plan

1. a prior behavior
2. overall arrangement and planning of accounting
3. basis of data quality control
4. To translate general accounting guidelines into internal implementation requirements for emitting entities
5. Key contents:
 - A. Monitoring plan version and revision history
 - B. Reporting entity description
 - C. Major emission facilities and the accounting boundary
 - D. Means to determine activity data and emission factors
 - E. QA/QC

1.5 Requirements for M

Accounting: 2 boundaries

Key elements	Boundary At organizational level	Boundary At ETS covered installation level
GHG types	6 types of GHG such as CO ₂ , CH ₄ , N ₂ O, SF ₆ , PFCs, HFCs.	CO ₂
method	Mass balance Emission factors	Mass balance Emission factors
Data reported	Emission data	Emission data, production data and allowance allocation related data

1.6 Requirements for R

Key elements	requirements
Reporting entities	Key emission entities (26,000 tons CO ₂ e)
Reporting contents	Emission data within enterprise boundary Emission data and product data within installation boundary
Reporting timeline	No sooner than the end of May next year

1.7 Requirements for V

Requirement for Verification body

- Legal entity qualification
- Office conditions
- Ability to deal with risks
- Internal quality management systems
- Performance level and experience
- Human resources
- Verifier qualifications
- Good professional record
- Avoidance of conflicts of interest

1.7 Requirements for V

Requirement for Verification implementation

- Verification principles
- verification purpose
- verification criteria
- verification procedure
- Verification requirements
- Verification report template
- Validation of the monitoring plan

2. MRV enforcement



2.1 Data management

- **Government documents:** No.57/ 1989/ 71/ 943
- **Covered industries:** Petrochemical, chemical, building materials, iron&steel, nonferrous metals, papermaking, electric power, aviation
- **Key emitting entities:** with emissions of over 26,000 tons CO₂e (equivalent to about 10,000 tce energy consumption)
- **Duration:** year 2013-2019
- **Verification:** 3rd verification body selection
- **Check:** expert review, check by verification body

2.2 Technical support

Scientific research

Capacity building



国家碳市场帮助平台
China National ETS Helpdesk

 **tanpaifang.com**

Year	Percentage
YEAR 1	50%
YEAR 2	75%
YEAR 3	90%

3. Characteristics of China MRV system and suggestions

Characteristics

- 1) **MRV consists of top-level policy and technical guidelines**
- 2) **Hierarchy management of National and local competent authority**
- 3) **Strengthen data quality in the whole process**
(before/during/after: plan/control/ guarantee)

Suggestions

- 1) **to speed up MRV regulations or standards**
- 2) **to enhance capabilities of all MRV participants**

Thank you!

