

China MRV System and Enforcement

China Quality Certification Centre (CQC)

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1.1 Role of MRV

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

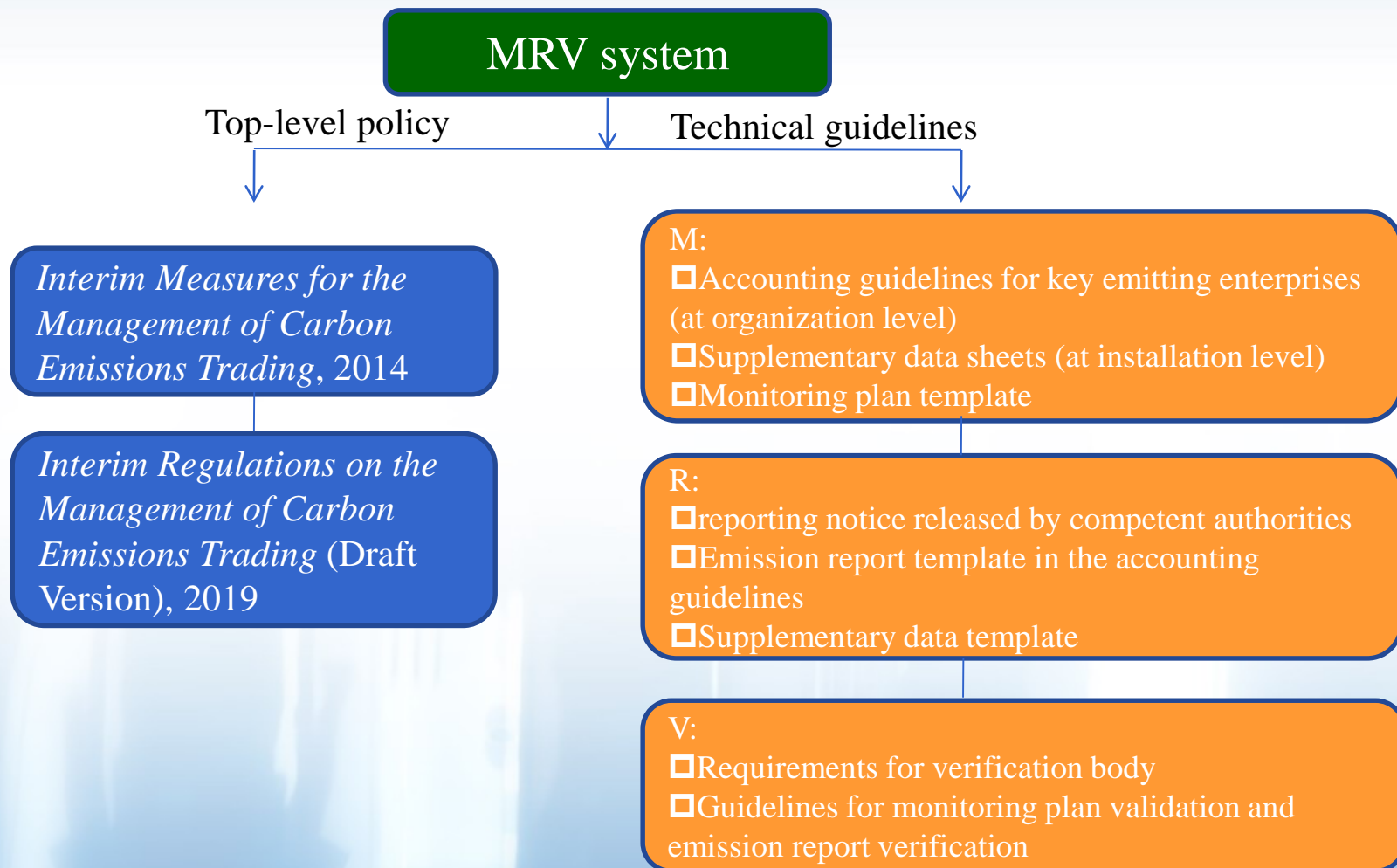
- the design of carbon trading system: cap
- carbon allowance allocation: benchmark, product data, historical emission data
- Allowance surrender: emission data
- emission reduction targets for enterprises

How to grantee the data quality?

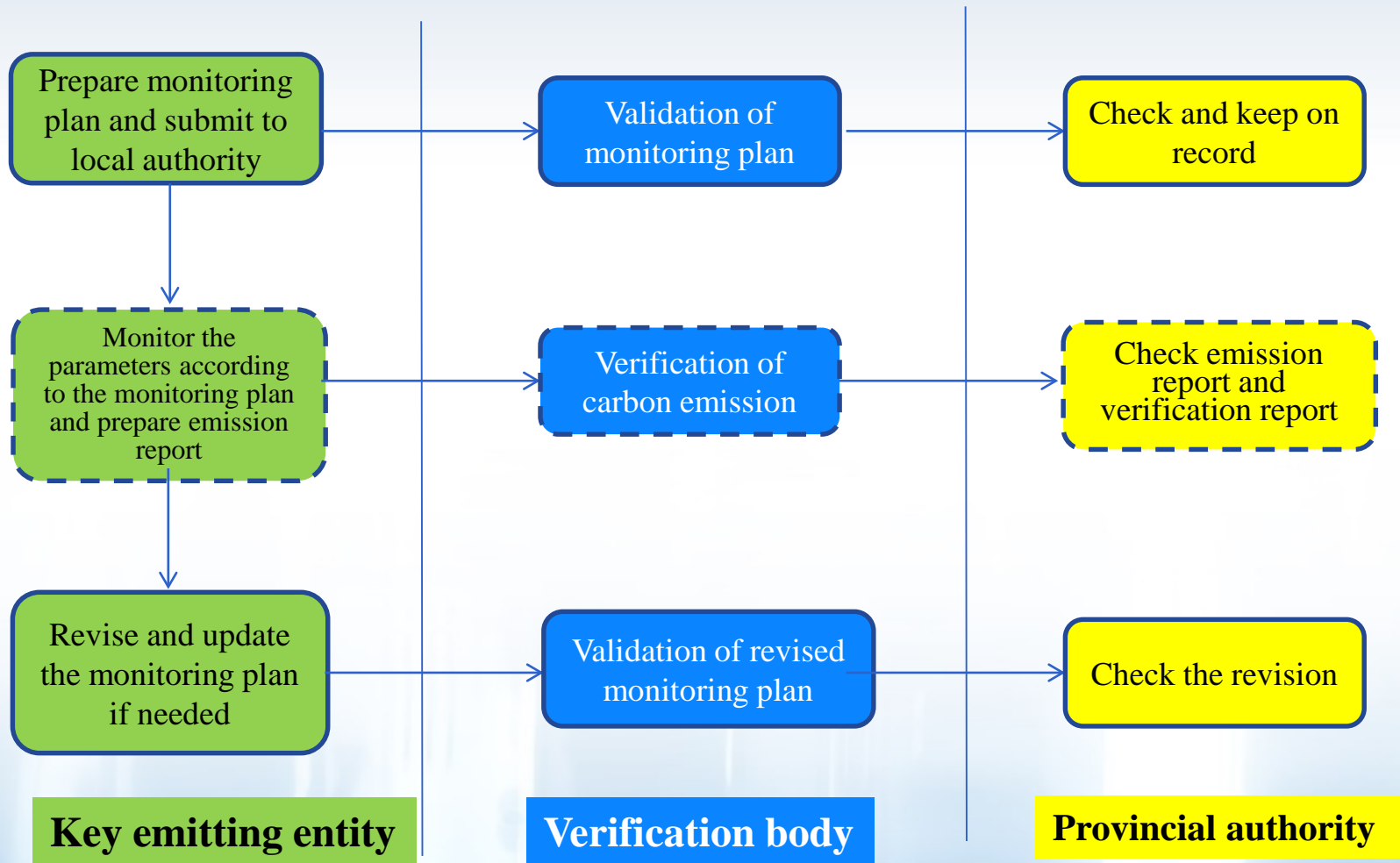
- MRV: a scientific and well-practiced system for data QA/QC

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	ETS Compliance boundary	Enterprise boundary
GHG types	CO ₂	6 types of GHG such as CO ₂ , CH ₄ , N ₂ O, SF ₆ , etc.
System boundary	installation, facility or branch	enterprise
Production data and other data to be reported	production data and allowance allocation adjustment data	No reporting requirement

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

more than 400 verification bodies in the national ETS.

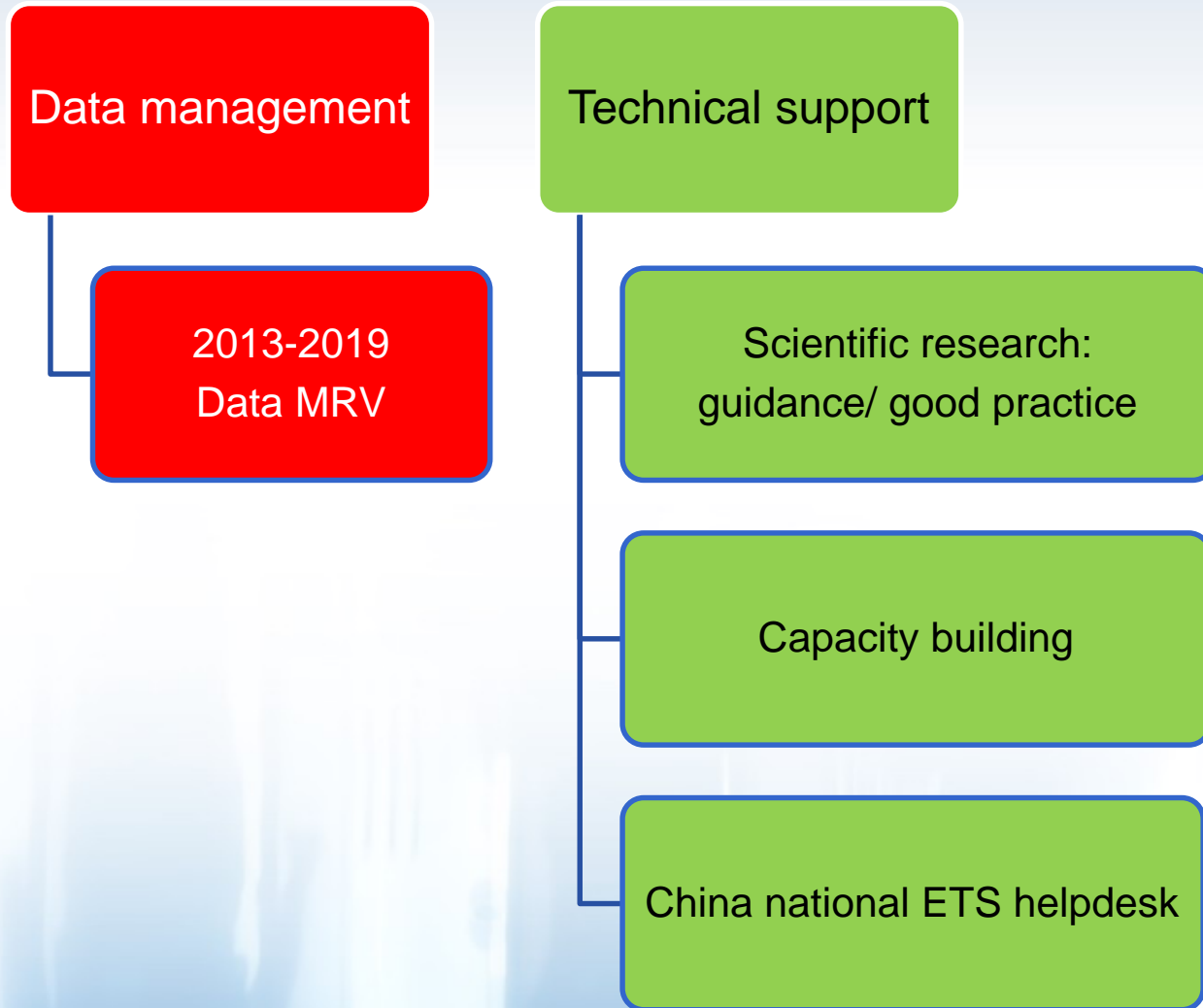
- Legal entity qualification
- Office conditions
- Ability to deal with risks
- Internal quality management systems
- Performance level and experience
- Human resources
- Verifier qualifications
- Good professional record
- Avoidance of conflicts of interest

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

- China's climate change fund
- CDM fund
- Bilateral and multilateral fund

Capacity building

- Target group: government, emitting entity, verification body
- 2019: special training for power industry



3. Characteristics of China MRV system and suggestions

Characteristics

- 1) MRV consists of top-level policy and technical guidelines**
- 2) National and local competent authority in hierarchy management model**
- 3) Strengthen data quality control in the whole process**

Suggestions

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

Thank you!

