



# **STATUS AND CHALLENGES WITH MONITORING NATIONAL GHG EMISSIONS IN CHINA**

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**3<sup>RD</sup> REGIONAL MRV TECHNICAL TRAINING**

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**SEPTEMBER 17 – 19, 2014**

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## ◆ International obligation:

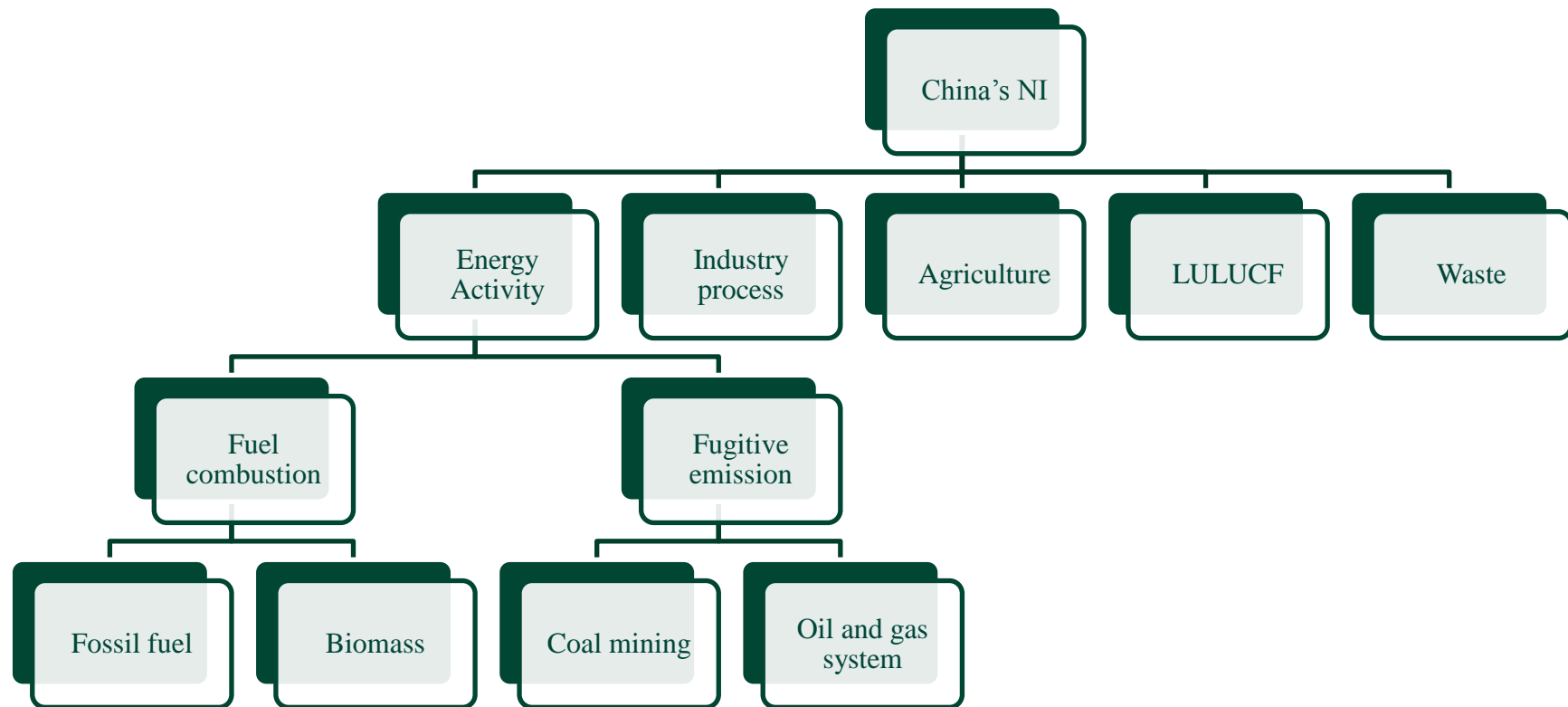
- Article 4.1 and 12.5 of UNFCCC on submission of national communication: Annex I VS Non-Annex I parties;
  - Decision 1/CP.16: developing parties... should submit biennial update report (BUR) containing updates of NI
  - Decision 17/CP.8: Guidelines for the preparation of national communications from Annex-I parties;
  - Decision 2/CP.17: UNFCCC biennial update reporting guidelines for Parties not included in Annex I to the Convention
  - MRV regulations based on CBDR.
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# 1: Progress of China's Inventory

	<b>1994 (2004)</b>	<b>2005 (2012)</b>
Coverage	Energy, industrial process, Agriculture, Forestry and other land use, waste	Energy, industrial process, Agriculture, Forestry and other land use, waste
GHGs	CO <sub>2</sub> , CH <sub>4</sub> , N <sub>2</sub> O	CO <sub>2</sub> , CH <sub>4</sub> , N <sub>2</sub> O, HFCs, PFC, SF <sub>6</sub>
Methodology	1996 IPCC + 2000GPG	1996 IPCC + 2000GPG 2006 IPCC as reference

- ◆ Ready to prepare the NI of 2010
    - The bidding information has been published and the government is “out-source” the work of preparing the inventory
  - ◆ The scope of GHGs
    - At least CO<sub>2</sub>, CH<sub>4</sub>, N<sub>2</sub>O, HFCs, PFCs, SF<sub>6</sub>
  - ◆ Link to reporting of facility level
    - In the future, this might be an option
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# 1. Overview of China's inventory (1)



- ◆ The Twelfth-Five-Year Work Program for Greenhouse Gas Emission Control (国发 [2011] 41 号)

- Main instructive policy on climate change

- ◆ Management on the Statistics of Climate Change (发改气候[2013]937号)

- Joint document released by NDRC and NSB to improve statistic system in favor of GHG accounting at the end of 2013

- ◆ Climate Change Act is under discussion

- No dedicated laws and regulations to manage NI
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### ◆ Centralized Approach:

- a single national entity with overall responsibility for the national inventory: NI planning, preparation and management;

### ◆ Out-sourced:

- the government “out-source” the work of preparing the inventory to research institutions, academic institutions and universities.

### ◆ Separated:

- China prepares its greenhouse gas inventory completely independent from other inventory and reporting efforts.
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## 2. Institutional arrangements (2)

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### ◆ National entity :

- Department of Climate Change (DCC), National Development and Reform Commission (NDRC)

### ◆ Out-sourced institutions and universities :

- Energy Research Institute — Energy Activities
- Tsinghua University — Industrial process
- CAAS + IAP of CAS — Agriculture
- CAF — LULUCF and forestry
- CAES — Waste management

### ◆ Supporting ministries and agencies

- NSB, MOA, NFB, CNPC, SINOPEC, SACMS, industrial associations...

### ◆ More programs has been initiated to improve the ~~NI-related statistics~~

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## 2: NI development process (Current)

### Preparation

- Funding Application to UNDP /GEF
- Summit Climate Communication Outline

### Bidding

- Tender on the 6 parts of the NI
- Bidding and determination of the working process

### Establishment

- Data collection, investigation, workshop and quality control of the work
- Establishment of the NI
- Submit to the UNFCCC

- ◆ Archive inventory information for each year: all disaggregated emission factors, activity data, and documentation about how these factors and data have been generated and aggregated for the preparation of the inventory
  - ◆ Make the archived information accessible by collecting and gathering it at a single location;
  - ◆ Respond to requests for clarifying inventory information resulting from the different stages of the review process
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- ◆ Existing statistic system can't meet the requirement of inventory development, for examples:
  - Coal classification:

	China energy statistic system			IPCC categories			
	Raw coal	Washing coal	Other washing coal	anthracite	bituminous coal	coking coal	lignite
NCV(MJ/kg)	20.93	26.38	8.37	26.70 (21.6-32.2)	18.90 (11.5-30.5)	28.20 (24.0-31.0)	11.90 (5.5, 21.6)
EFs(t-C/TJ)	NA	NA	NA	26.8 (25.8-27.5)	25.80 (24.4-27.3)	25.80 (23.8-27.6)	27.60 (24.8-31.3)

- ◆ “Opinion” released jointly by NDRC and NSB to improve statistic system in favor of GHG accounting at the end of 2013
    - Update Energy Balance Table, by
      - Disaggregating fuels; adding new fuels;
      - Re-allocating transport energy;
  - ◆ Climate-related Statistic Leading Group was established in Feb., 2014, composing by 21 ministries, departments and associations.
  - ◆ Initiatives in provincial level started consequently
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Thank You

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