

Brief Introduction of China's second BUR





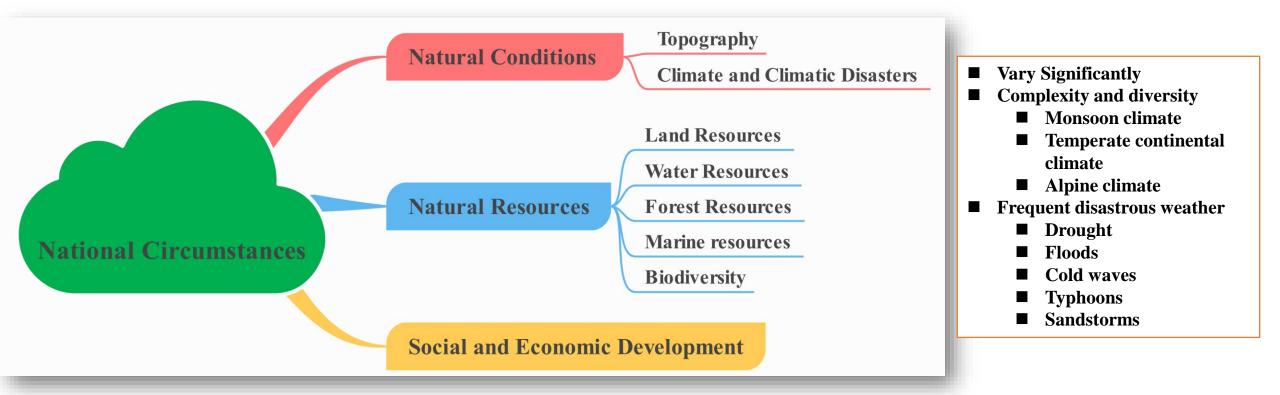
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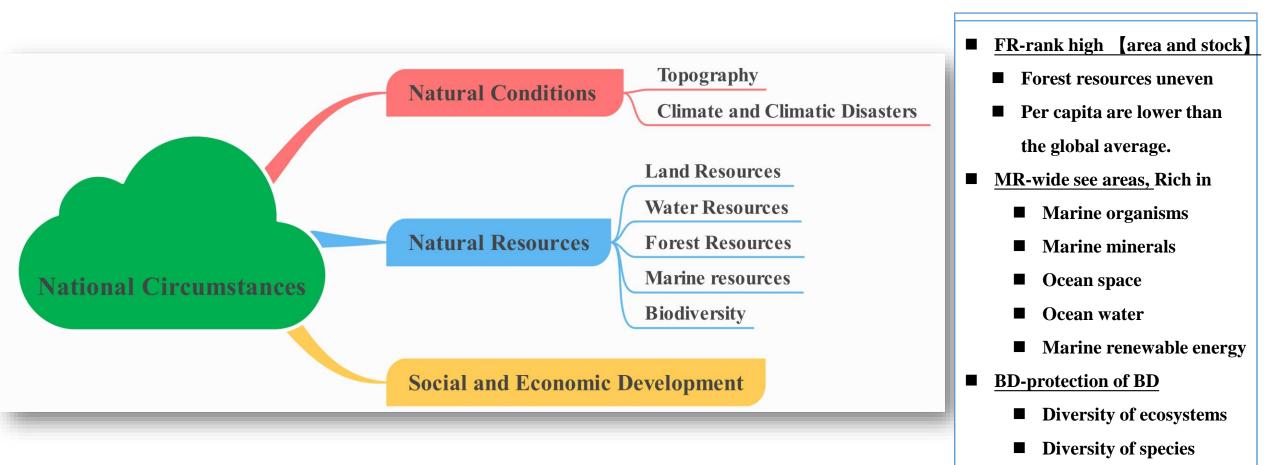
 Part I National Circumstances and Institutional Arrangements
 National Circumstances

National Institutional Arrangements for Addressing Climate Change



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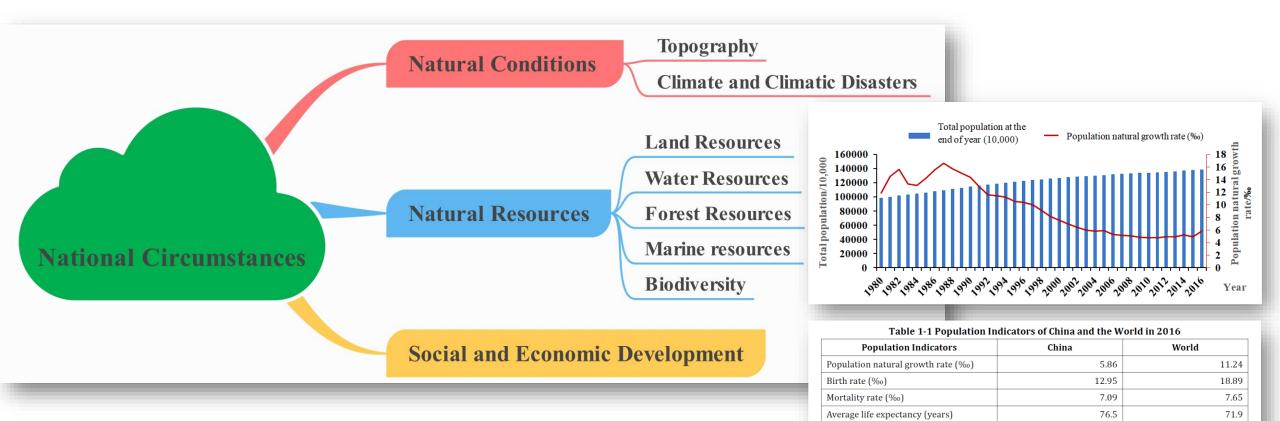






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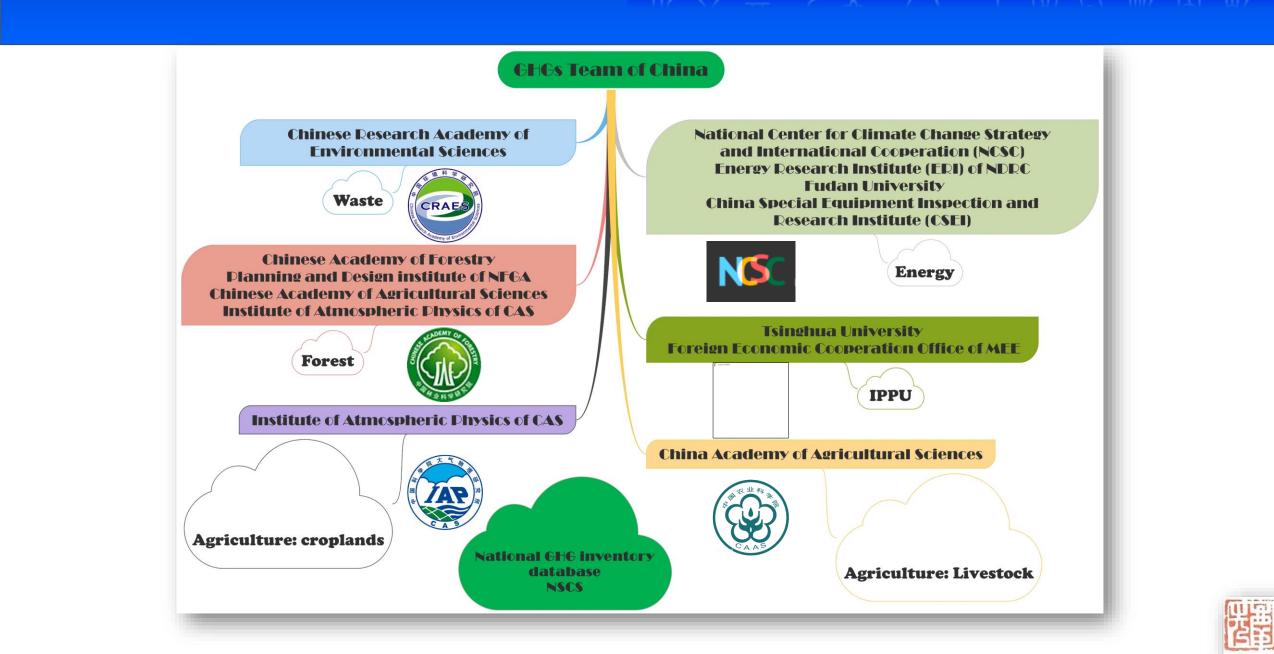




Source: China Health Statistical Yearbook 2018, China Statistical Yearbook 2018, and the statistical database from the World Bank.



Main Organizations Involved in 【NC, BUR and NGI】 惊页立地意民, 界廓颜薪



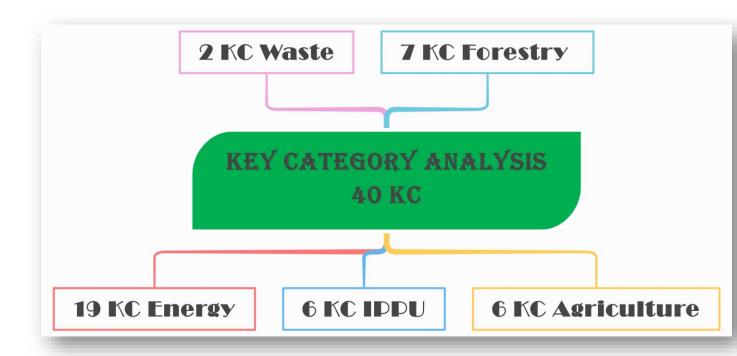
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Part II National Greenhouse Gases Inventory

Scope and Methodologies
 National GHG Inventory in 2014
 QA/QC
 Information on Inventories in Previous Submissions

Scope and Methodologies





Source/ Sink Categories	CO ₂			CH4		N ₂ O
	Method	Emission Factors	Method	Emission Factors	Method	Emission Factors
Energy industry	T2	CS	T1,T2	D,CS	T1,T2	D,CS
Manufacturing industries and construction	T2	CS	T1	D	T1	D
Transportation	T2	CS	T1,T3	D,CS	T1,T3	D,CS
Other sectors	T2	CS	T1	D	T1	D
Other	T2	CS	T1,T2	D,CS	T1,T2	D,CS
Fugitive emissions from solid fuels			T1,T2	D,CS		
Fugitive emissions from oil and natural gas			T1,T3	D,CS		
Mineral products	T1,T2	D,CS				
Chemical industry	T1,T2	D,CS	NE	NE	T3	CS
Metal production	T1,T2	D,CS	T1	D	NE	NE
Enteric fermentation			T1,T2	D,CS		
Manure management			T1,T2	D,CS	T2	D,CS
Rice cultivation			T3	CS		
Agricultural soils			NE	NE	T1,T2	D,CS
Field burning of agricultural residues			T1	D,CS	T1	D,CS
Forest land	T2	CS				
Cropland	Т3	CS	IE	IE	IE	IE
Grassland	T2	CS	IE	IE	IE	IE
Wetlands	T2	CS	T2	CS	NE	NE
Settlements	T2	CS				
Other land	T1	D				
Harvested wood products	T2	CS				
Solid waste	T1,T2	CS	T1,T2	D,CS	T1	D,CS
Wastewater treatment			T1,T2	D,CS	T1,T2	D,CS

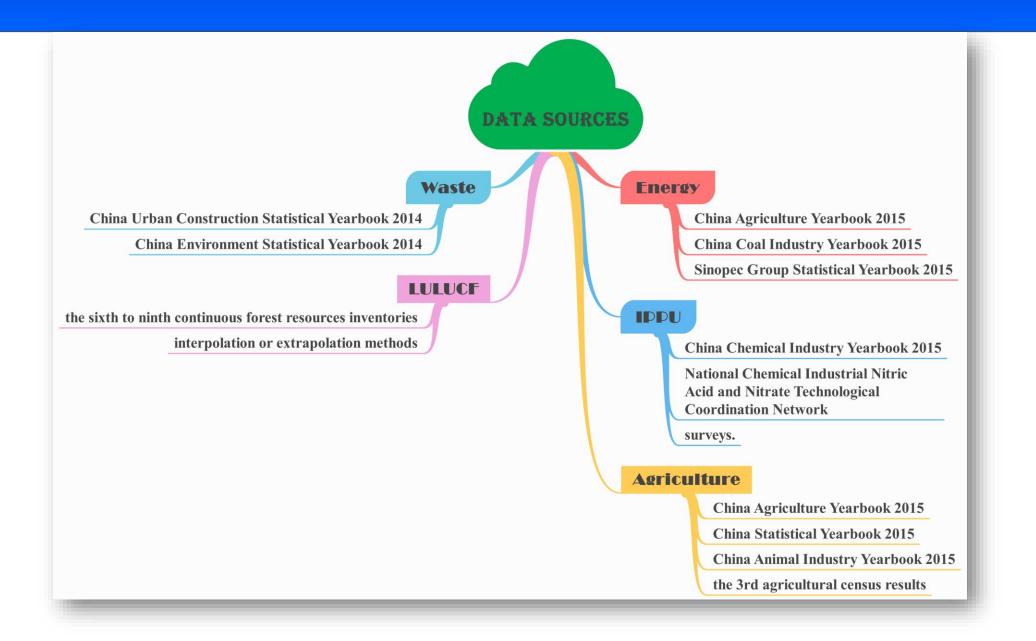
Note: 1. The methodological codes T1, T2 and T3 represent Tier 1, Tier 2 and Tier 3 methods respectively. 2. The emission factor code CS represents the country-specific emission factor in China, D represents the defaulted IPCC emission factor.

3. IE (included elsewhere) stands for sources which have been calculated and reported under other sub-categories. NE (not estimated) stands for existing emissions and removals which have not been estimated.

4. Their parallel appearance shows that the sub-items use different Tier methods or emission factor data sources.



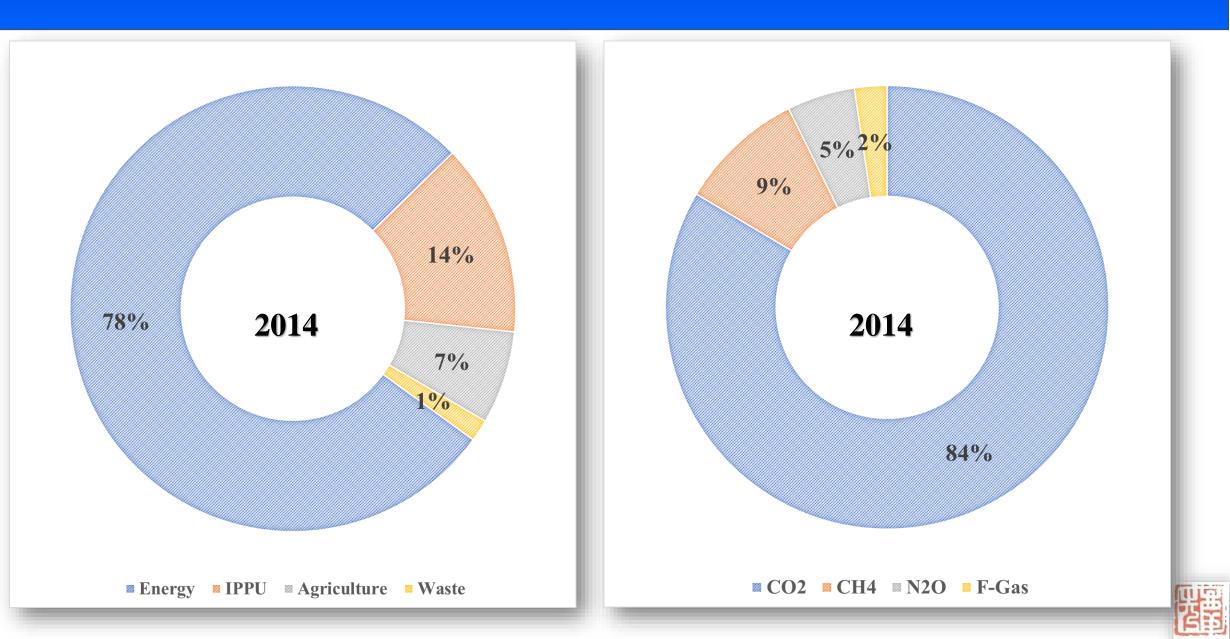
Scope and Methodologies



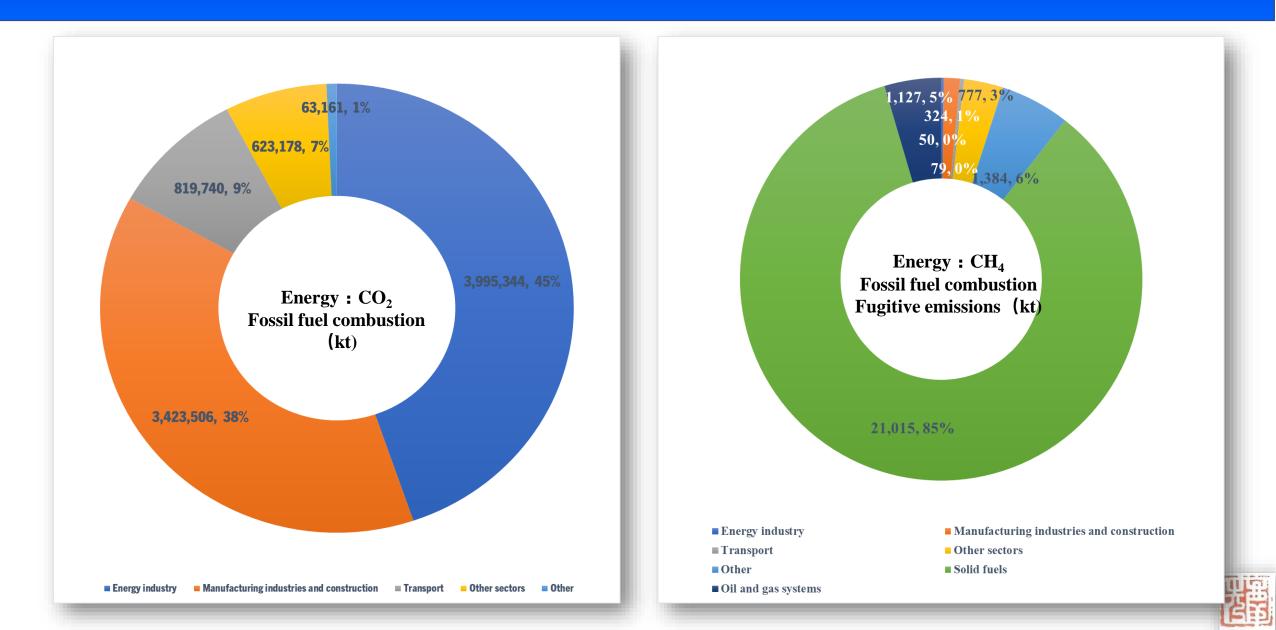
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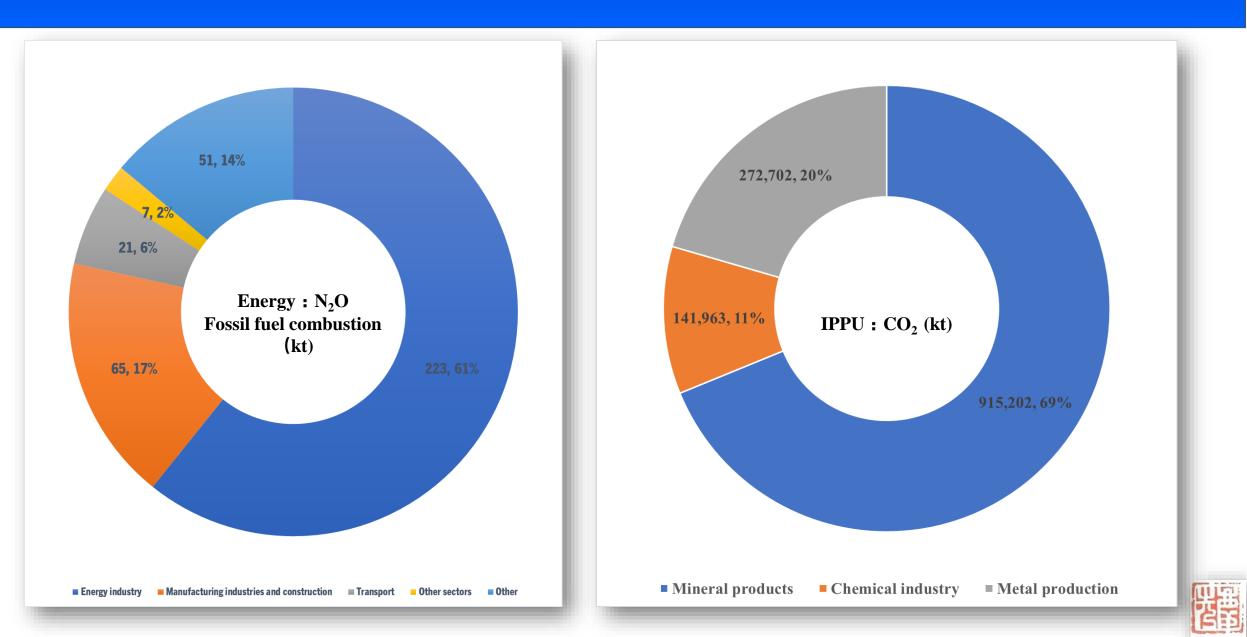
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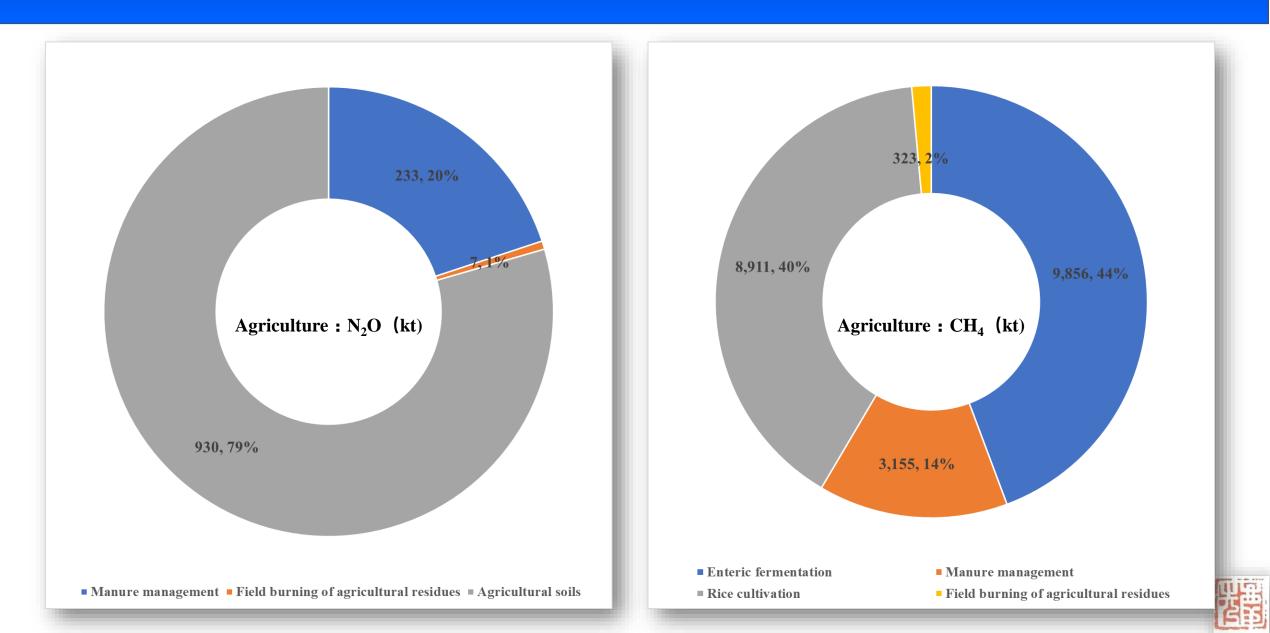


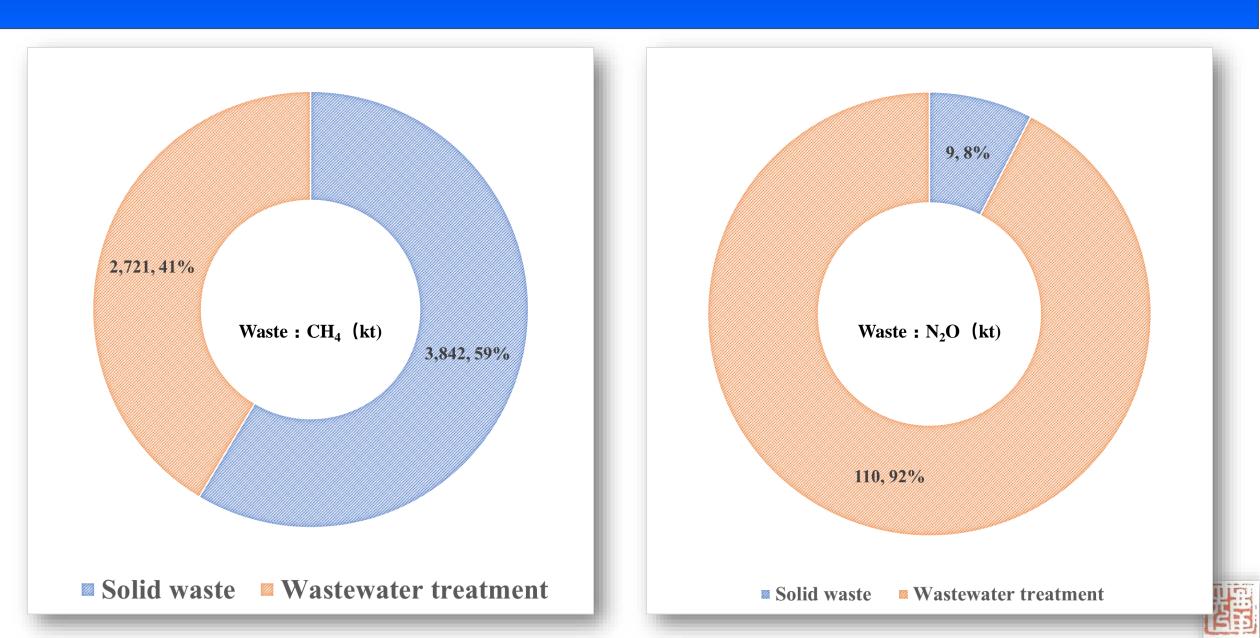
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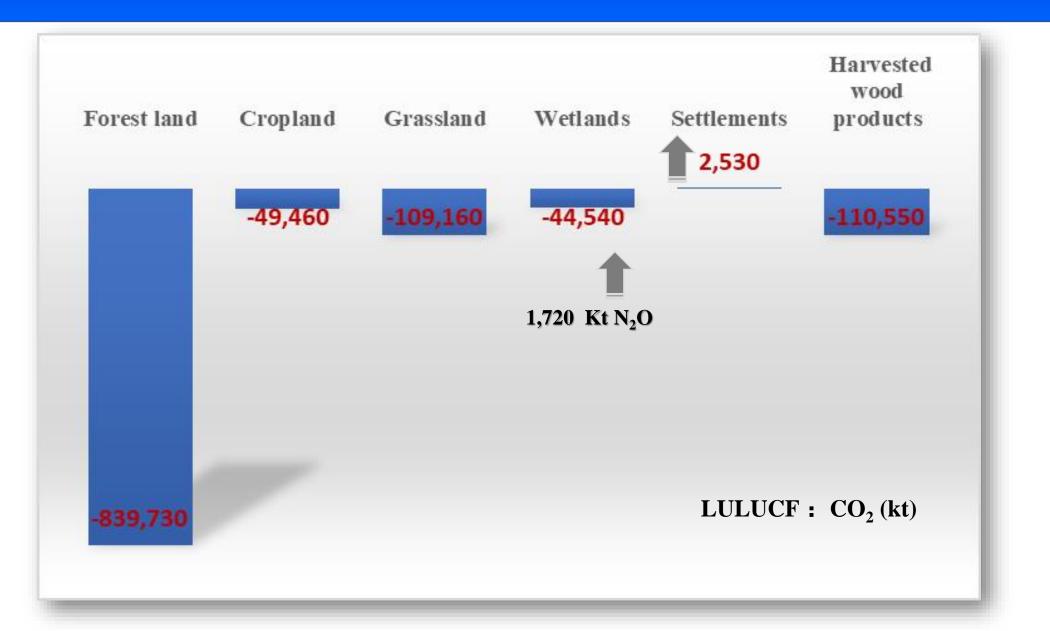




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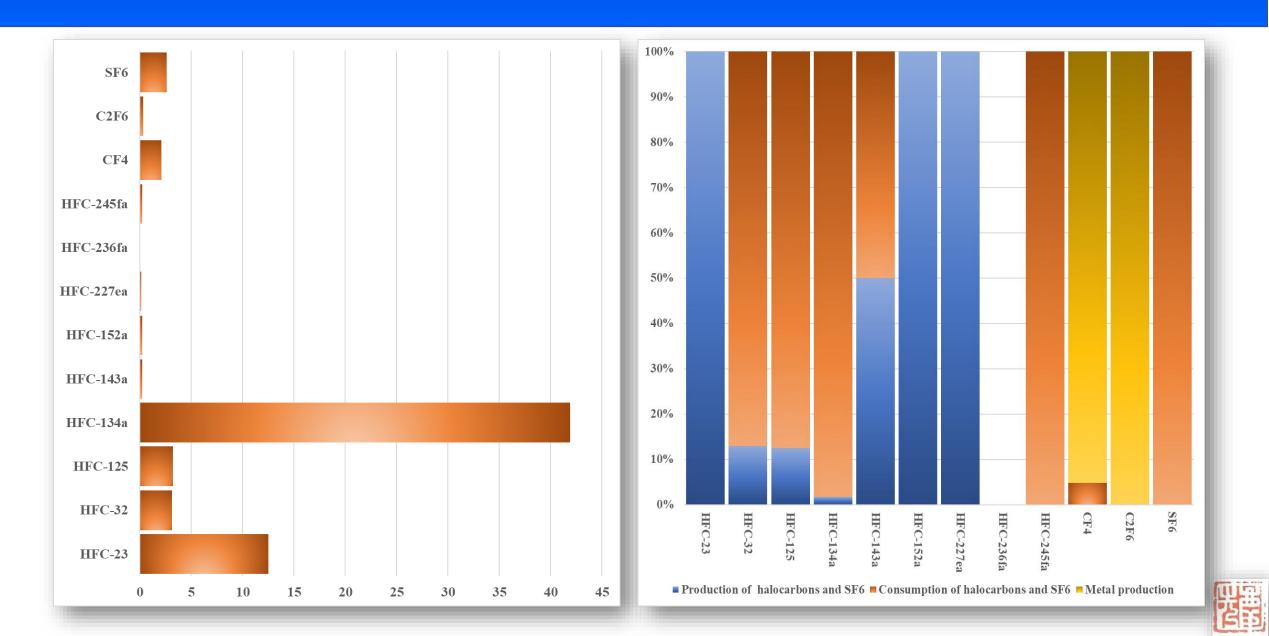






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Efforts to Reduce Uncertainties

	Emission factors:	1
<u>Methods</u> :	<u>Management :</u>	meter statistical
<u>key category analysis</u> –	Emphasized the management of data file.	
using as many highe	■ The materials supporting the preparation were archived in a	rate of carbon
specific EF	timely manner.	ustry
the activity data——a	■ Established a database system for the national and sector GHG	gen excretion by
system for addressing	Inventories.	s well as direct
<u>the net calorific v</u>	Organized technical seminars.	gricultural soils
investigation.	■ invited experts who were not involved in to carry out	ion factors and
	independent analysis and review of the inventory's	atment.
	methodologies and results.	

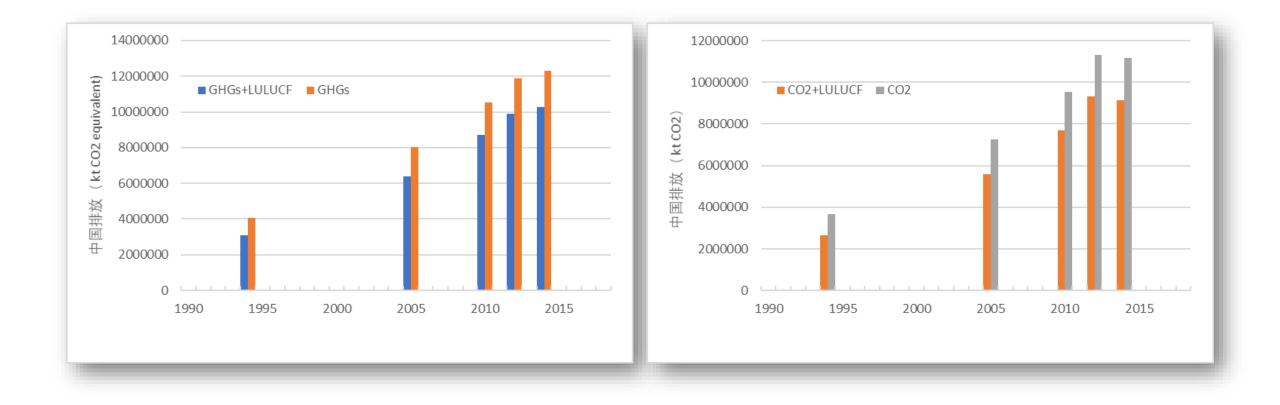


Results of Uncertainty Analysis of 2014 National GHG Inventory			
Sector	Emission/ Sink (Mt CO 2 eq)	Uncertainties	
Energy	9,559	-5.2%~5.3%	
Industrial processes	1,718	-3.9%~3.9%	
Agriculture	830	-19.2%~20.4%	
LULUCF	1,115	-21.1%~21.2%	
Waste	195	-23.2%~23.2%	
Overall	-5.2%	∕o~5.3%	

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Information on Inventories in Previous Submissions



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Part III Mitigation Actions and Their Effects

- Policies and Targets for GHG Emission Control
- Mitigation Actions and Progress
- Analysis on the Results of Major Mitigation Actions



The nationally appropriate mitigation actions (NAMAs):

- To lower its CO2 emissions per unit of GDP by 40%-45% compared with the 2005level
- To increase the share of non-fossil energy in primary energy consumption to around 15%
- To increase forest area by40 million ha and forest stock volume by 1.3 billion m³ compared with the 2005 level.

The Work Plan on Greenhouse Gas Emission Control for the 12th FYP

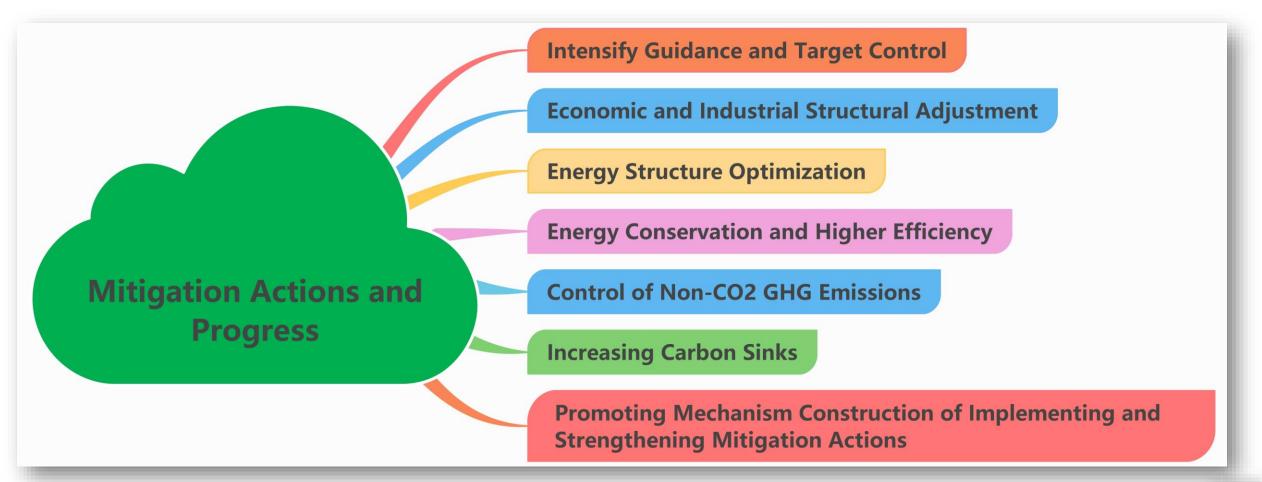
- The targets were to reduce carbon intensity dramatically, like a fall of 17% in 2015 compared with 2010;
- <u>To</u> achieve progress on the control of CO2 emissions from non-energy-related activities and other greenhouse gas emissions including CH4, N2O, HFC, PFC and SF6.

In GHG Control in 13th FYP

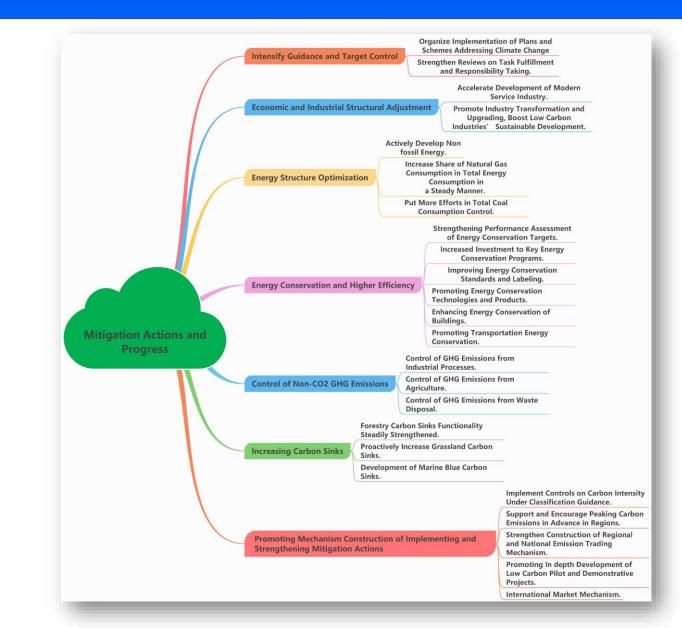
- To exert effective control on carbon emissions, and by 2020 carbon intensity is 18% lower than that of 2015;
- <u>To put more efforts</u> to control the emission of greenhouse gas other than CO2, including HFCs, CH4, N2O, PFCs and SF6;
- To increase significantly carbon sink capability.



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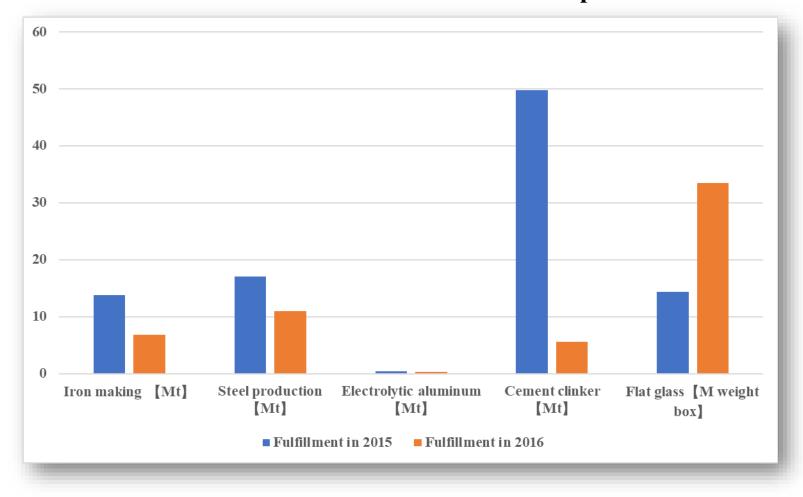
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Promote Industry Transformation and Upgrading, Boost Low Carbon Industries' Sustainable Development.

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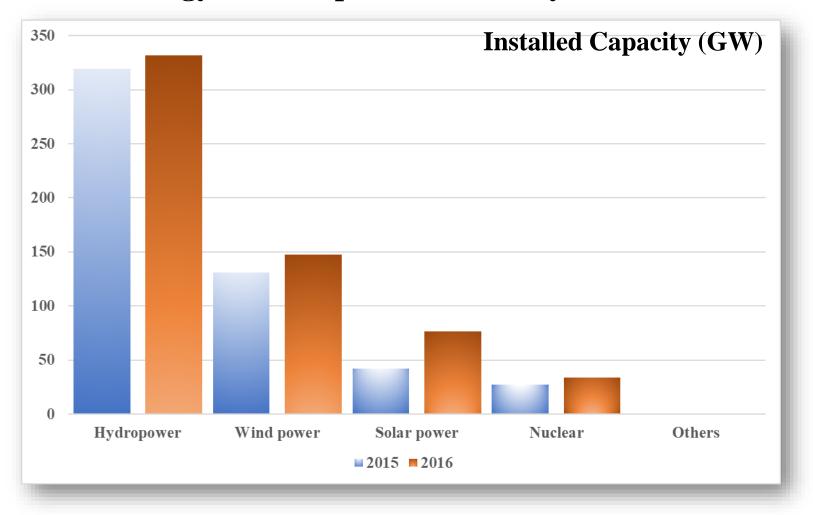




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Increase Share of Natural Gas Consumption in Total Energy Consumption in a Steady Manner.

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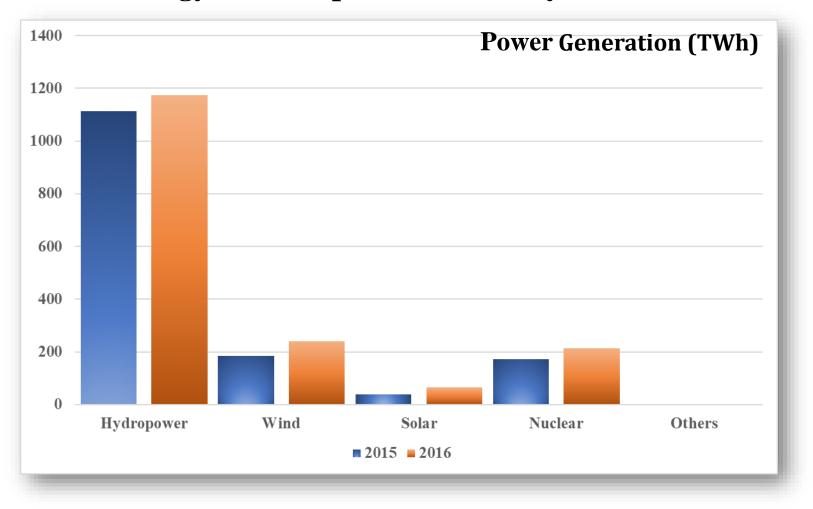


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Increase Share of Natural Gas Consumption in Total Energy Consumption in a Steady Manner.

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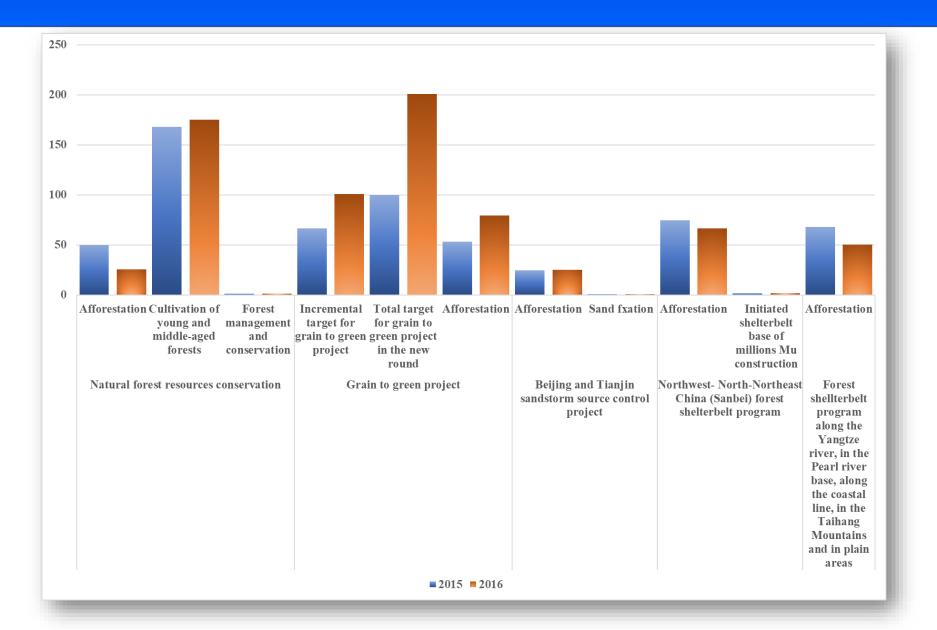




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Forestry Carbon	Sinks Functionality Stea	dily Strengthe	ened.				
Progress of Five Major Forestry Protection and Restoration Projects							
project	Sub-project	Unit	2015	2016			
Natural forest resources conservation	Afforestation	10000 hectares	49.9	25.6			
	Cultivation of young and middle-aged forests	10000 hectares	167.8	175.3			
	Forest management and conservation	100 million hectares	1.15	1.15			
Grain to green project	Incremental target for grain to green project	10000 hectares	66.7	100.7			
	Total target for grain to green project10000 hectaresin the new round10000 hectares		100	200.7			
	Afforestation	10000 hectares	53.3	79.6			
Beijing and Tianjin sandstorm source control project	Afforestation	10000 hectares	24.7	25.1			
	Sand fxation	10000 hectares	0.79	0.98			
Northwest- North-Northeast China (Sanbei) forest shelterbelt program	Afforestation	10000 hectares	74.55	66.7			
	Initiated shelterbelt base of millions Mu construction	Piece	2	2			
Forest shellterbelt program along the Yangtze river, in the Pearl river base, along the coastal line, in the Taihang Mountains and in plain areas	Afforestation	10000 hectares	68	50.6			

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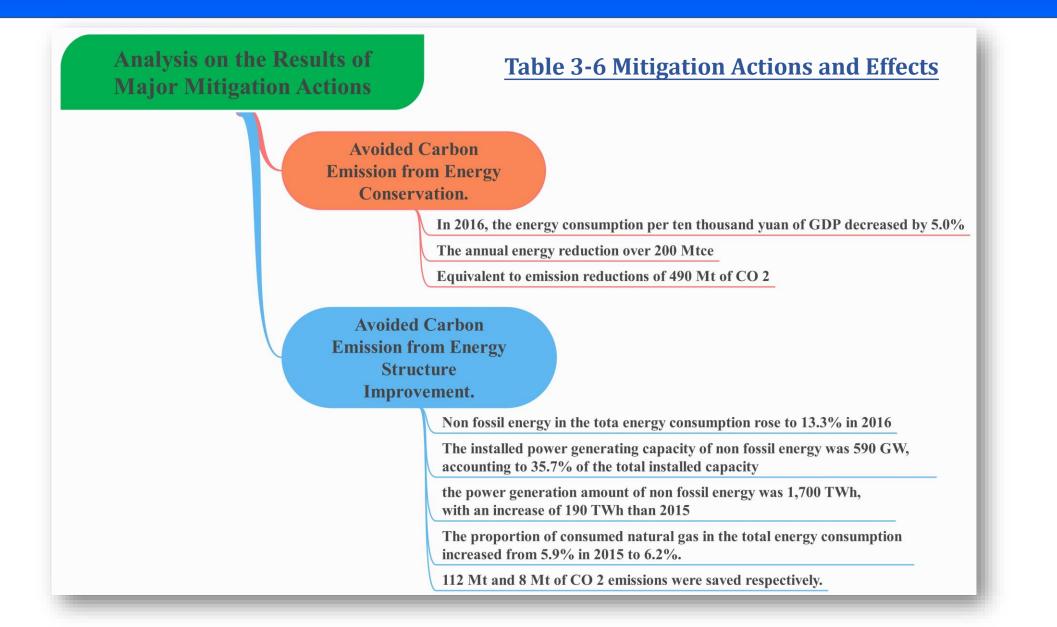
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Analysis on the Results of Major Mitigation Actions



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Table 3-6 Mitigation Actions and Effects Estimated Concerned **Objectives or Main** Supervision Action Time -Nature of Emission Receive Methodologies and Hypotheses No. Departments/ Status Progress Contents horizon Action Departments Reduction Support Name GHG Effects¹ Support Calculate the CO₂ emission amount by Reduce the CO₂ the CO2 from the uce Various multiplying the consumption of coal, Nationwide emissions per unit of 2006 Compulsiv ssions per unit of central Departments/ petroleum natural mitigation and 1 gas GDP by 40%-45% by 6.1% over 2015 -2020 Governme finance or CO_2 corresponding the average emission action over 2005 by 2020 the local 016 factor finance **Energy Structure Optimization** Increase the proportion of nonfossil energy consumption Emission reduction=(current-year Support to proportion of nonnon-fossil fuel consumption -currentaround 13% by 2016; Reduce CO₂ from the twelve il energy in energy Developing year energy consumption×2015 share emissions by Increase the 2016 Compulsiv central of non-fossil energy in total energy CO₂ etc. sumption 2 non-fossil was proportion of non--2020 Governme 110 million finance or ×implied emission 1% in 2016, up 1.2 consumption) energy 2016 **Estimated** Concerned Methodologies Action **Objectives or** Time -**Emission** Receive **Nature of Action** No. **Departments** / **Status Progress** and Main Contents Name horizon **Reduction** Support GHG **Hypotheses Effects** Emission reductions - (consumption natura gas of natural gas in the year - total to The proportion of consumption energy consumption in the year Reduce CO₂ by NEA. NDRC and natural gas in total around 6.3% 2016 In Developing emissions by ×share of natural gas in 2015) × (the energy consumption other relevant 2016: Increase the CO₂ etc. Government 3 -2020 2014 overall energy consumption 8 million tons natural gas Progress increased from 5.9% in share of natural gas departments emission factor of 2.14tCO2/tce - the in 2016 consumption in total 2015 to 6.2% in 2016 natural gas emission factor of energy consumption 1.56tCO₂/tce) to over 10% by 2020

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Part IV Finance, Technology and Capacity-Building Needs and Support Received
Finance Needs and Support Received
Technology Needs and Support Received
Capacity Building Needs



Capacity Building Needs and **Finance Needs and** Support Received Finance Needs for Addressing Climate Change China's Finance Needs for Climate Change Mitigation China's Finance Needs for Climate Change Adaptation China's Total Finance Needs for Fulfilling Goals **International Climate Finance Received by China** Financial Support Received by China within the Financial Mechanism under the Convention Financial Support from Multilateral Agencies Financial Supports through Bilateral Channels **Current Problems and Challenges Technology Needs** and Support Received Technology Needs for Addressing Climate Change Technology Needs for Climate Change Mitigation Technology Needs for Climate Change Adaptation Technical Support Received by China **Capacity Building** Needs DisussiCapacity Building Needs for Addressing Climate Changeon Capacity Building Needs for Climate Change Mitigation Capacity Building Needs for Climate Change Adaptation Capacity Building Needs for Education and Training in Addressing Climate Change, and Raising of Public Awareness Capacity Building Support Received by China

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Part V Basic Information of Hong Kong SAR on addressing Climate Change

Hong Kong's GHG Inventory in 2014

Mitigation Measures and Their Effects





Part V Basic Information of Macao SAR on addressing Climate Change

Macao's GHG Inventory in 2014

Mitigation Measures and Their Effects



