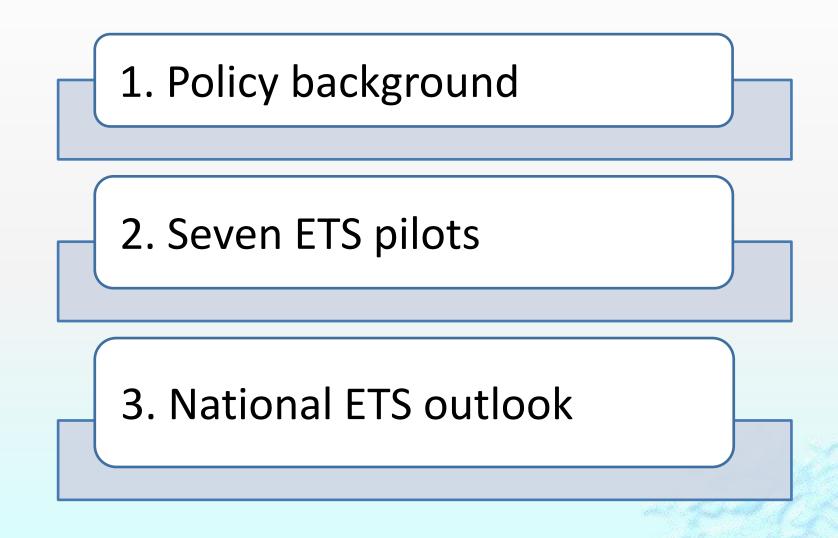
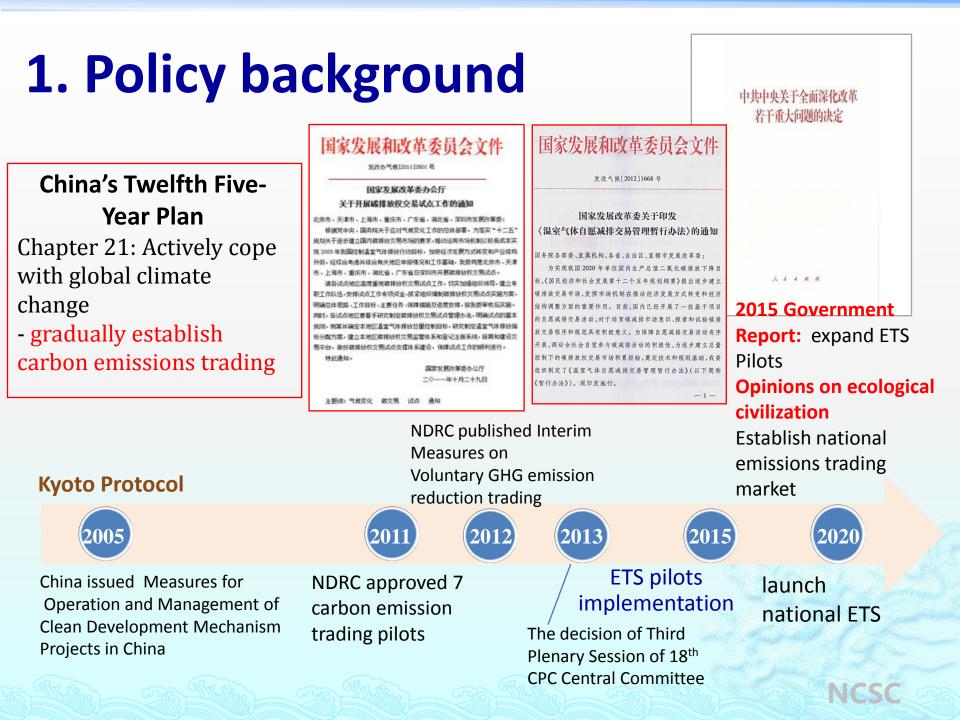


# China's carbon market —progress and outlook

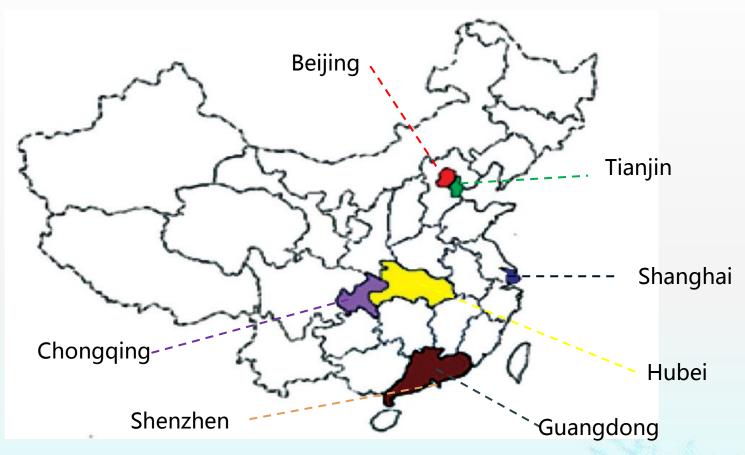
Zheng Shuang CDM & Carbon Market Department National Climate Change Strategy Center (NCSC)

# Outline

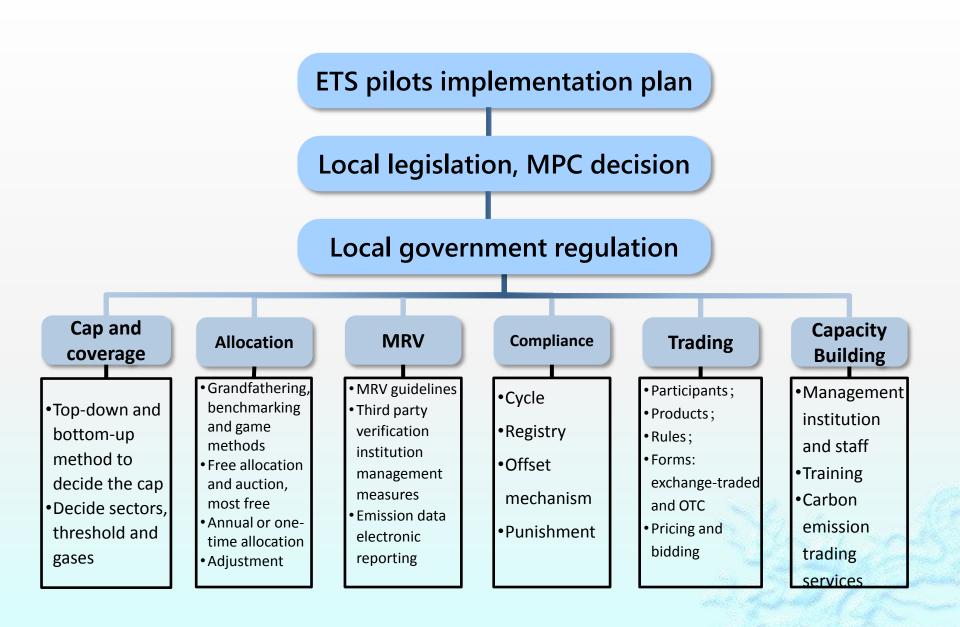




#### 2、 China's Seven ETS pilots



The seven pilots cover population of 260 million, energy consumption of 830 million tce, and GDP of 14 trillion Yuan RMB, accounting for **19%**, **27% and 23%** of the country's total respectively (2012)



#### Legislation

Beijing	<ul> <li>Municipal People's Congress Decision (Dec, 2013)</li> <li>Management measures (May, 2014)</li> </ul>		
Tianjin	- Management measures (Dec, 2013)		
Shanghai	- Management measures (Nov, 2013)		
Hubei	- Management measures (Apr, 2014)		
Guangdong	long - Management measures (Jan, 2014)		
Shenzhen- Municipal People's Congress Provision (Oct, 2012) - Management measures (Mar, 2014)			
Chongqing	<ul> <li>Management measures (May, 2014)</li> <li>Municipal People's Congress Decision draft (Apr, 2014)</li> </ul>		

#### Cap and coverage

	Сар	Sectors and companies	Threshold
Beijing	About 55 MtCO <sub>2</sub>	Power, heating, cement, petrochemical, other industries, and services,	10000 tCO <sub>2</sub> (2009-2012)
Tianjin	About 160 MtCO <sub>2</sub>	Iron & steel, chemical, power and heating, petrochemical, oil & gas drilling	20000 tCO <sub>2</sub> (from 2009)
Shanghai	About 150 MtCO <sub>2</sub>	Iron & steel, petrochemical, chemical, power and heating, non-ferrous, building materials, aviation, airport, ports, railways, hotels, commercial and retails, and finance	Industry sectors: 20000 tons $CO_2$ (2010-2011), non-industry sectors: 10000 tCO <sub>2</sub> (2010-2011)
Guangdong	About 388 MtCO <sub>2</sub>	Power, cement, iron & steel, petrochemical	20000 tCO <sub>2</sub> (2011-2012)
Shenzhen	About 30 MtCO <sub>2</sub>	26 sub-sectors (manufacturing industries) Public and commercial buildings	Industry sectors: 3000 tCO <sub>2,</sub> public building and government offices building: 10000m <sup>2</sup>
Hubei	324 MtCO <sub>2</sub>	Power, iron & steel, cement, chemical, petrochemical, cars and equipment manufacturing, non-ferrous	60000 tce (2010-2011)
Chongqing	130 MtCO <sub>2</sub> e	Power, meltallurgy, chemical industry and other industries	20000 tCO <sub>2</sub> (2008-2012)

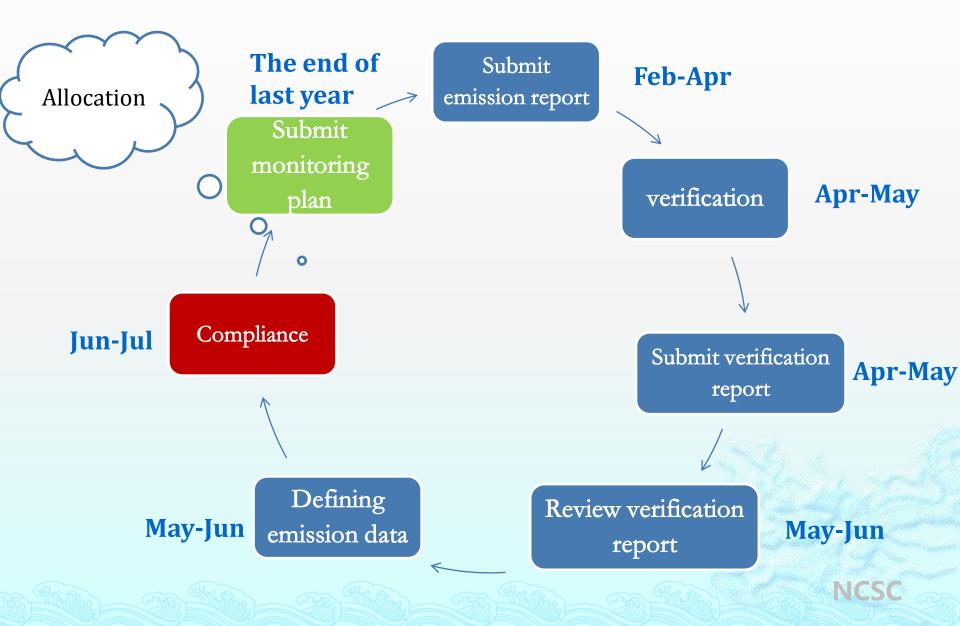
## Allocation

	Free	Auction	Issue
Beijing	- grandfathering - benchmarking	-	Annual
Tianjin	<ul><li>grandfathering</li><li>benchmarking</li></ul>	-	Annual
Shanghai	<ul><li>grandfathering</li><li>benchmarking</li></ul>	- 7220 tons (June 30, 2014)	Once for three years
Guangdong	- grandfathering - benchmarking	-3%, 11.12 million tons (2013) - 5% in power sector, 3% in other sectors (2014) -8 million tons(2014)	Annual
Shenzhen	<ul> <li>manufacturing sector:</li> <li>competitive gaming</li> <li>building sector: benchmarking</li> </ul>	<ul><li>75 thousand tons (June 6, 2014)</li></ul>	Annual
- grandfathering Hubei - benchmarking		<ul> <li>- 30% allowance for auction</li> <li>- auctioned 2 million tons on</li> <li>Mar 31, 2014</li> </ul>	Annual
Chongqing	<ul> <li>combination of cap-trade and competitive gaming</li> </ul>	_	Annual
			NCSC 9

#### MRV

	Standard and guideline	Verification body	Electronic reporting	
Beijing	<ul> <li>6 sectors emission accounting and reporting guidelines</li> <li>verification guideline, verification institution management measures, expert review</li> </ul>	19	$\checkmark$	
Tianjin	<ul> <li>- 5 sectors emission accounting guidelines</li> <li>- 1 emission reporting guideline</li> </ul>	4	Paper	
Shang hai	<ul> <li>General guideline +9 sectors emission accounting and reporting guidelines</li> <li>verification institution management measures</li> </ul>	10	$\checkmark$	
Guang dong	<ul> <li>General guideline +4 sectors emission accounting and reporting guidelines</li> </ul>	16	$\checkmark$	
Shenzh en	<ul> <li>MRV guidelines</li> <li>especial requirements for building emission accounting and reporting</li> </ul>	21	$\checkmark$	
Hubei	<ul> <li>General guideline +11sectors emission accounting and reporting guidelines</li> <li>verification guideline</li> <li>verification institution management measures</li> </ul>	3	$\checkmark$	5
Chong qing	<ul> <li>MR guidelines</li> <li>MRV detailed regulation</li> <li>verification guideline</li> </ul>	11	V	CSC

#### Compliance



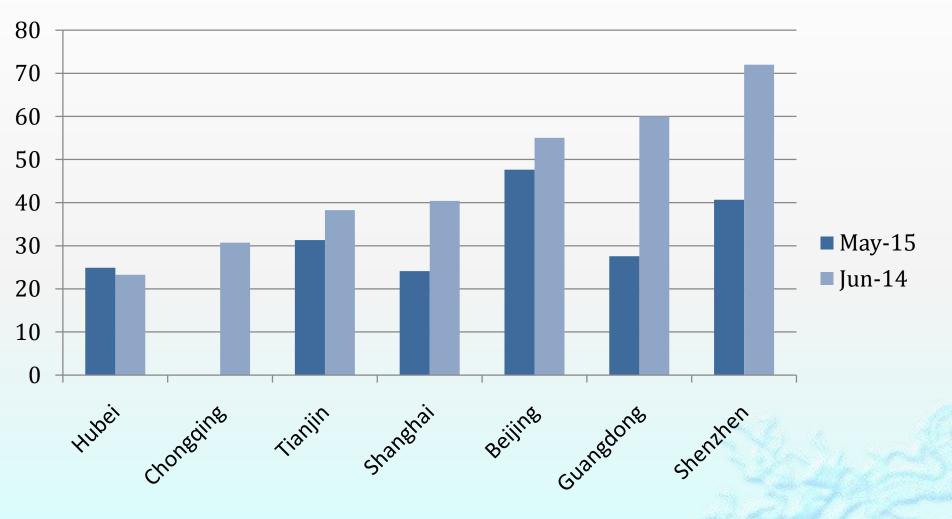
#### Compliance

	Reporting	Verification	Compliance	<b>Compliance status</b>
Beijing	Feb 28	Mar 20	Jun 15	97.1% (2014); 100%(2015)
Tianjin	Apr 30	Apr 30	May 31	96.5%(2014); 99.1%(2015)
Shanghai	Mar 31	Apr 30	Jun 1-30	100%(2014); 100%(2015)
Guangdong	Mar 15	Apr 30	Jun 20	99%(2014); 100%(2015)
Shenzhen	Mar 31	Apr 30	Jun 30	99.4%(2014); 99.6%(2015)
Hubei	Last work day of Feb	Last work day of Apr	Last work day of Jun	100%(2015)
Chongqing	Feb 20	-	Jun 20	2015

#### Market rules

	Participants	Approach	Products
Beijing	<ul> <li>ETS covered enterprises</li> <li>Other enterprises , institutions and individuals</li> </ul>	<ul> <li>open trading on</li> <li>exchange</li> <li>OTC</li> </ul>	BEA, CCER、 energy savings, carbon sink
Tianjin	<ul> <li>ETS covered enterprises</li> <li>national and international institutions, enterprises, organizations and individuals</li> </ul>	open and agreement trading on exchange	TJEA, CCER
Shanghai	- ETS covered enterprises	open and agreement trading on exchange	SHEA, CCER
Guangdong	<ul> <li>ETS covered enterprises</li> <li>Other enterprises , institutions and individuals</li> </ul>	open and agreement trading on exchange	GDEA, CCER
Shenzhen	<ul> <li>ETS covered enterprises</li> <li>Other enterprises , institutions and individuals</li> </ul>	open and agreement trading on exchange	SZA, CCER
Hubei	<ul> <li>ETS covered enterprises</li> <li>Other enterprises , institutions and individuals</li> </ul>	open and agreement trading on exchange	HBEA, CCER
Chongqing	<ul> <li>ETS covered enterprises</li> <li>Other enterprises , institutions and individuals</li> </ul>	open and agreement trading on exchange	CQEA-1, CCER

#### **Carbon price**



NCSC

Unit: Yuan/ton from launching date to May 31, 2015

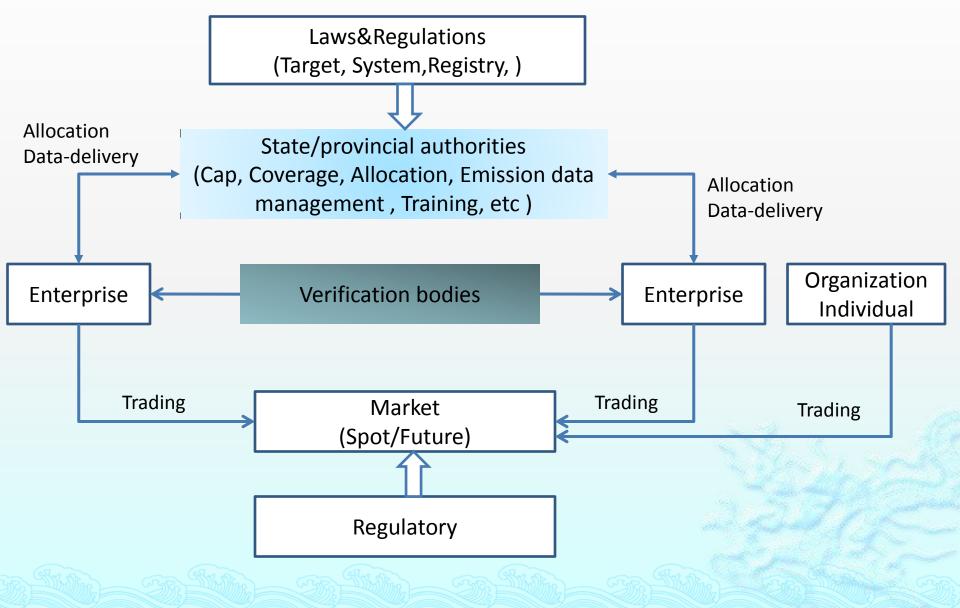
### Conclusions

- Binding cap-trade policy and implementation system, transform carbon intensity target to absolute target, covering major emission sectors and enterprises
- ETS play an important role in reaching local carbon intensity target and controlling GHG emissions in pilot regions
- Local characteristics on policy and legislation, technical standards and market operation
- Technical foundation and capacity improved
- Strict compliance and punishment rules
- Carbon markets shaping, carbon prices discovered
- Enterprise capacity and awareness elevated

# Issues

- Disparities among 7 ETS pilots
- Low legal force of local policy
- Lack of basic data, scientific methodology and capacity
- Different MRV, registry and trading system standards
- Lack of policy and information transparency
- Lack of supervision on market and service sector
- Resistance from enterprises

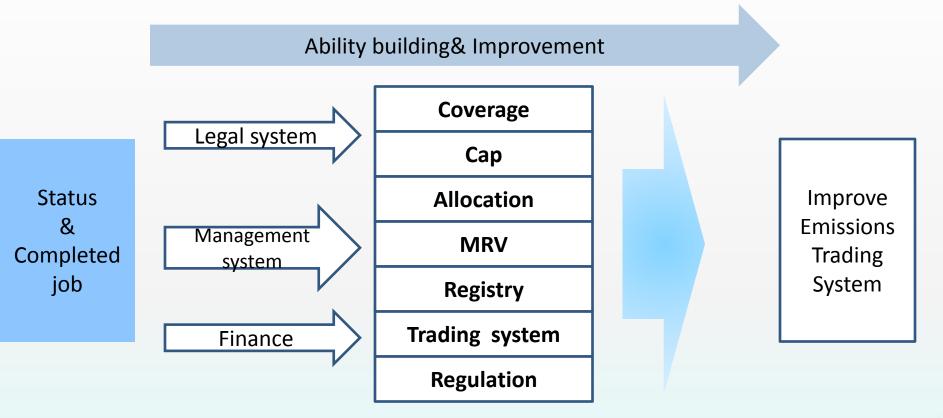
#### **3. National ETS Outlook**



# Planning

	Research and construction of National ETS		)peration and improvement	<b>Fully implementation</b>
	2014	> 2015-2016	> 2017-2020	> After 2020
Central	-Prepare Regulation -MRV Guidelines -Infrastructure	-publish Regulation -Report and verification of historical data	-First Stage -ETS under "Five Unify" Principle	-Second Stage -Expanse coverage -Perfect regulation -Research international connection
i		// !		
Local	-Ability building -Liability list -Allocation under unified method		-Allocate allowance annually -Organize MRV affairs annually -Participant in perfecting ETS system according to characteristics	
Enterprise	<ul> <li>Participant in ability building activities</li> <li>Establish inside emission report system</li> <li>Cooperate in MRV affairs</li> </ul>		<ul> <li>-Perfect carbon assets management system</li> <li>-Cut emission-reduction cost by trading voluntarily</li> <li>- Participant in perfecting ETS system</li> </ul>	

## **Pathway**



Transparency& Communication

# THANK YOU!