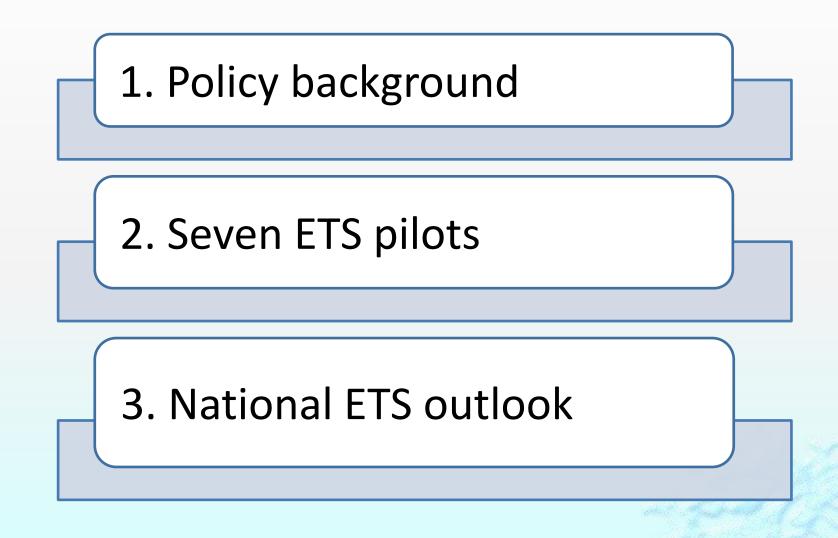
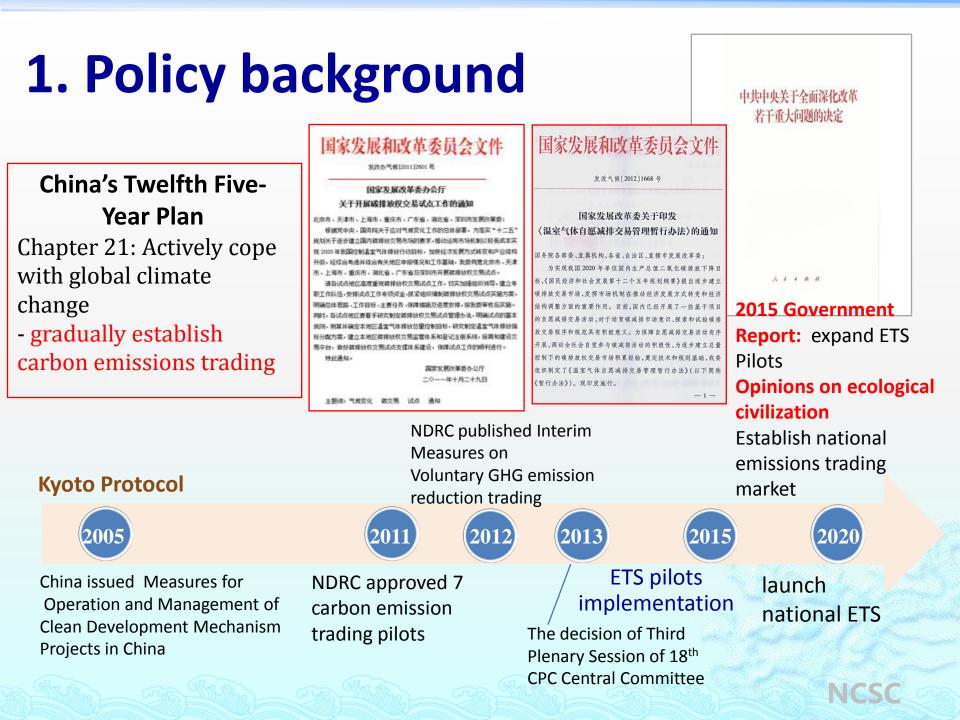


China's carbon market —progress and outlook

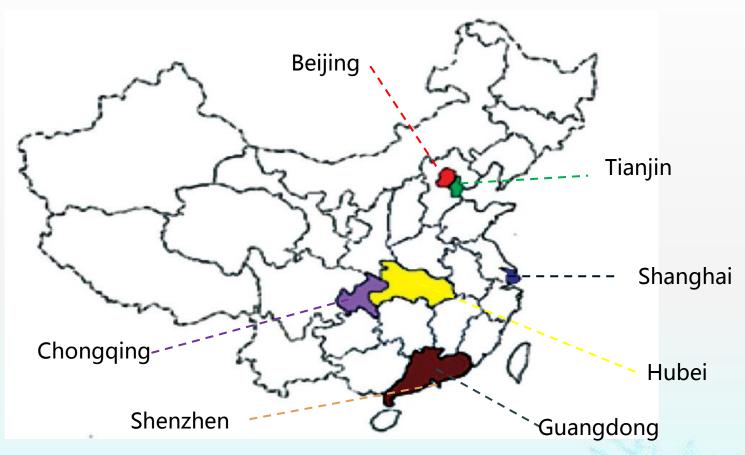
Zheng Shuang CDM & Carbon Market Department National Climate Change Strategy Center (NCSC)

Outline

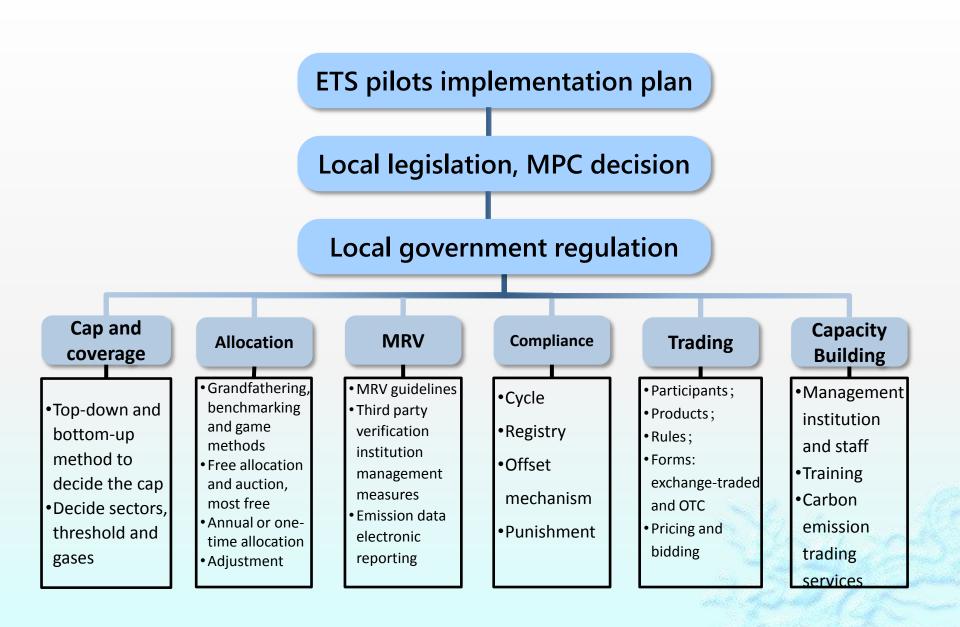




2、 China's Seven ETS pilots



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	 Municipal People's Congress Decision (Dec, 2013) Management measures (May, 2014) 		
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	 Management measures (May, 2014) Municipal People's Congress Decision draft (Apr, 2014) 		

Cap and coverage

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

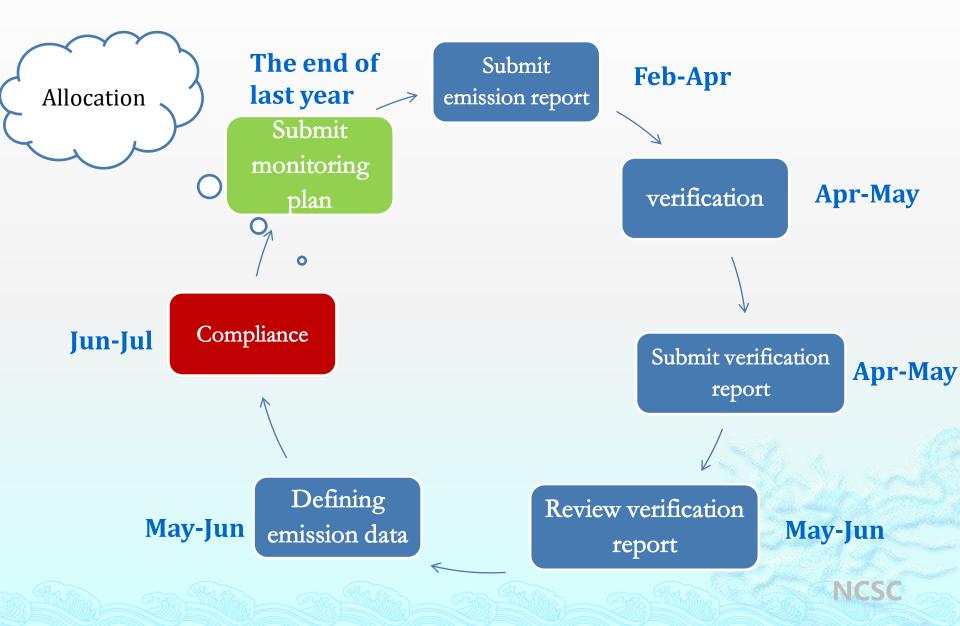
Allocation

	Free	Auction	Issue
Beijing	- grandfathering - benchmarking	-	Annual
Tianjin	grandfatheringbenchmarking	-	Annual
Shanghai	grandfatheringbenchmarking	- 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	 manufacturing sector: competitive gaming building sector: benchmarking 	75 thousand tons (June 6, 2014)	Annual
- grandfathering Hubei - benchmarking		 - 30% allowance for auction - auctioned 2 million tons on Mar 31, 2014 	Annual
Chongqing	 combination of cap-trade and competitive gaming 	_	Annual
			NCSC 9

MRV

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

Compliance



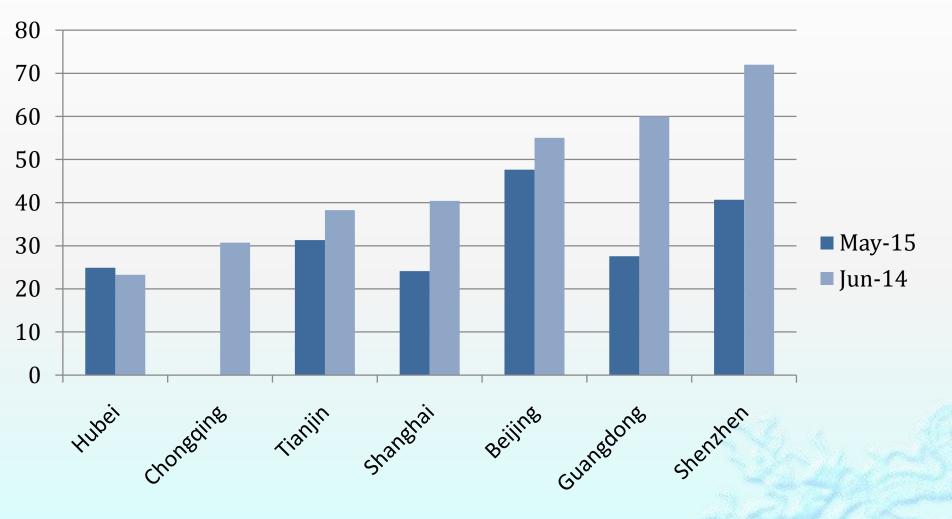
Compliance

	Reporting	Verification	Compliance	Compliance status
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	 ETS covered enterprises Other enterprises , institutions and individuals 	 open trading on exchange OTC 	BEA, CCER、 energy savings, carbon sink
Tianjin	 ETS covered enterprises national and international institutions, enterprises, organizations and individuals 	open and agreement trading on exchange	TJEA, CCER
Shanghai	- ETS covered enterprises	open and agreement trading on exchange	SHEA, CCER
Guangdong	 ETS covered enterprises Other enterprises , institutions and individuals 	open and agreement trading on exchange	GDEA, CCER
Shenzhen	 ETS covered enterprises Other enterprises , institutions and individuals 	open and agreement trading on exchange	SZA, CCER
Hubei	 ETS covered enterprises Other enterprises , institutions and individuals 	open and agreement trading on exchange	HBEA, CCER
Chongqing	 ETS covered enterprises Other enterprises , institutions and individuals 	open and agreement trading on exchange	CQEA-1, CCER

Carbon price



NCSC

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

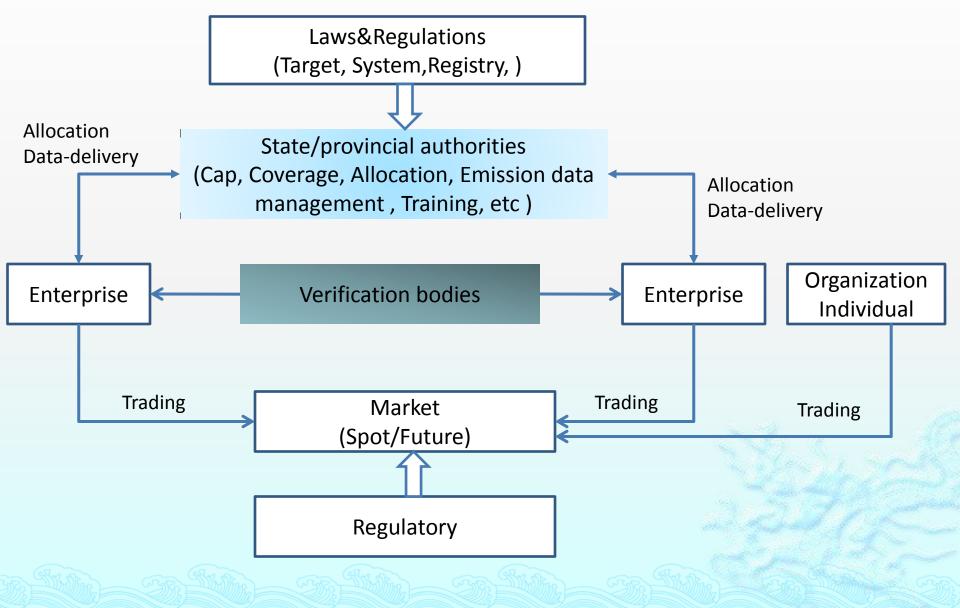
Conclusions

- 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

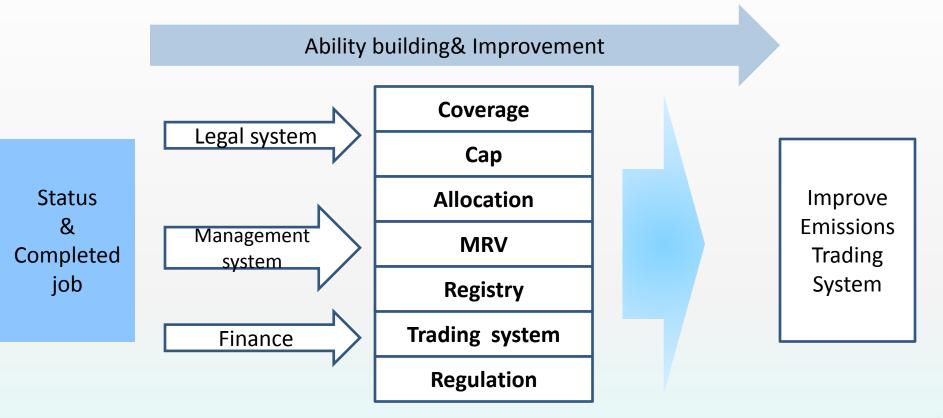
3. National ETS Outlook



Planning

	Research and construction of National ETS)peration and improvement	Fully implementation
	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	 Participant in ability building activities Establish inside emission report system Cooperate in MRV affairs 		 -Perfect carbon assets management system -Cut emission-reduction cost by trading voluntarily - Participant in perfecting ETS system 	

Pathway



Transparency& Communication

THANK YOU!