15<sup>th</sup> annual IEA-IETA-EPRI workshop, 29-30 September, Paris

# Emissions Trading Scheme in Korea

29 September 2015

Ministry of Environment Republic of Korea



# 1. Overview of Korea's GHG emissions

#### Energy & Industrial Process – key sectors for GHG emissions



#### Facts on Korea's energy consumption

World's 10th largest energy consumer

97% of energy is imported from abroad

Energy import accounts for 29% of Korea's total import volume



# 2. Recent landmark on GHG mitigation

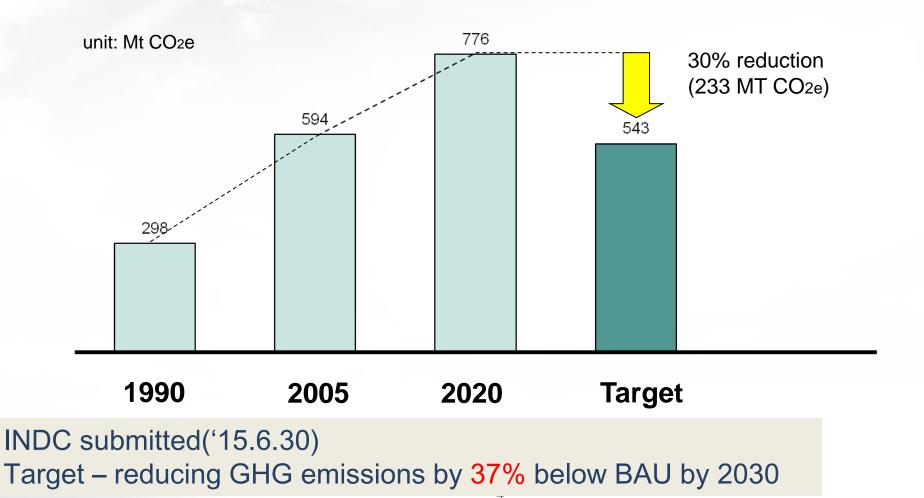
#### Substantial progress in mitigation policy in the last few years





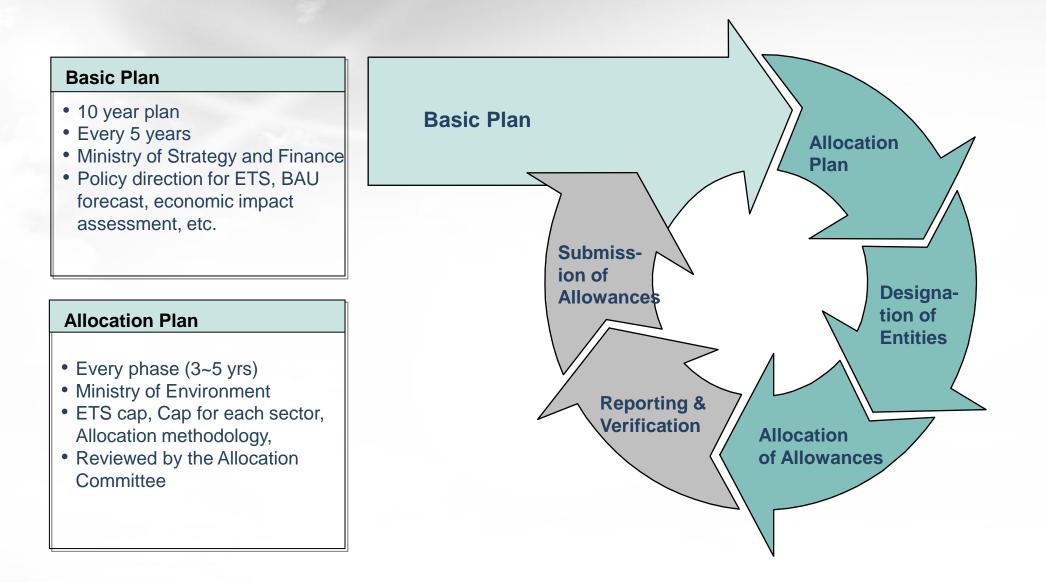
## 3. The national target (2009)

Estimated that such ambition could imply some 233MT CO2e reduction in 2020 from the business-as-usual scenario





# 4. ETS (Key processes and legal plans)





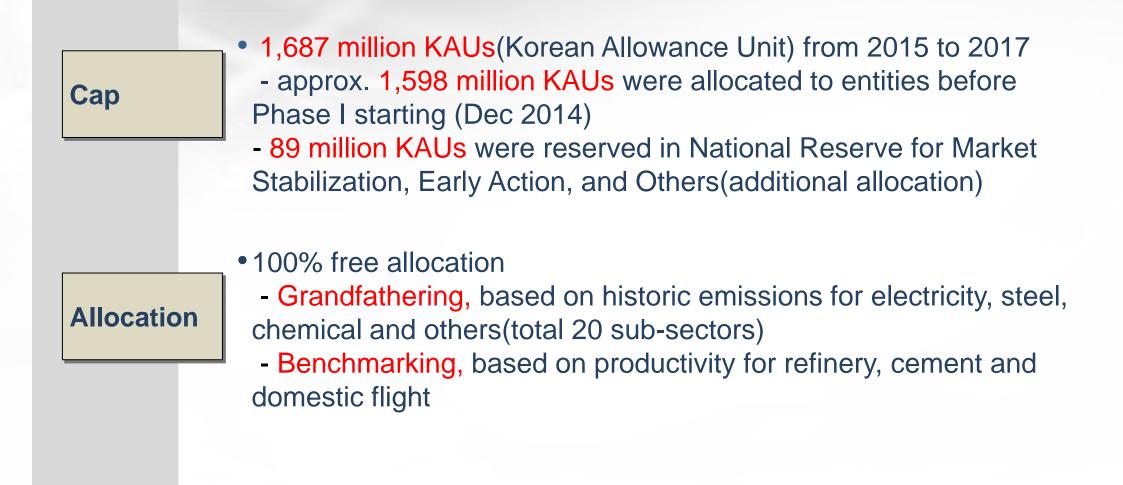
# 4. ETS (Scheme design)

Coverage		on of 3 years prio	r to the implementation phase iteria 25,000t CO2e
	<ul> <li>Voluntary particip</li> </ul>	pating entities	
Implementation			Phase III
phases & free allocation		Phase II	•2021~2025
	Phase I	•2018~2020	•Less than 90%
	•2015~2017	• 97% free allocation	free allocation
	• 100% free allocation		An Implementation phase 5 years from Phase III
100% free allocation for EITE entities	<ul> <li>&gt; 5% of production</li> <li>&gt; 30% of production</li> <li>&gt; 30% of trade-explanation</li> </ul>	on cost intensity	> 10% of trade-exposed intensity

<sup>\*</sup> Emissions-Intensive and Trade-Exposed



## 4. ETS (National Allocation Plan, Sep 2014)





# 4. ETS (National Allocation Plan, Sep 2014)

#### **Emissions Cap and Pre-allocation**

Unit : Thousand KAU(Korean Allowance Unit)

Sector		Im	Cap during the			
	Sub-sector	2015	2016	2017	phase	
Сар		573,460	562,183	550,906	1,686,549	
	Reserve	88,822				
	Pre-allocation	543,227	532,576	521,924	1,597,728 (94.7%)	



# 4. ETS (National Allocation Plan, Sep 2014)

#### **Target Sector and Industry**

- 23 sub-sectors in 5 sectors based on sub-sector classification under Target Management System and under the national reduction targets
- Sub-sector of target entities are designated in alignment with subsector designated under Target Management System



526 entities('15.9)

Sector	Conversion	Public-Waste	Building	Transport	Industry	
Sub- sector	Power generation- energy	Water supply Waste	Building Communications	Aviation	Mineral Food &Beverage Textile Lumber Paper Refinery Petrochemical Glass/Ceramic	Cement Steel Non-ferrous metal Machinery <sup>Semiconductor</sup> Disply Electric/el ectronic Automobile Shipbuilding
Total(23)	1	2	2	1	17	

# 4. ETS (Flexibility)



- Banking is allowed to the next implementation year within the same phase or the 1<sup>st</sup> year of the next phase
- Borrowing is allowed from the next implementation year (max of 10% of total necessary allowances for submission)

#### Offsets

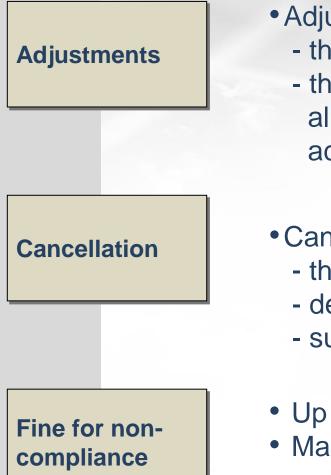
Max of 10% of total necessary allowances for submission
International offset credits are allowed from Phase III (50% of total offset credits)

#### **Early Action**

• Max of 3% of total cap (only for Phase I)



# 4. ETS (Adjustment, cancelation & fine)



- Adjustments in allocation of allowances is possible when:
  - there is a change in the Allocation Plan;
  - there is request from entities for additional allowances allocation due to unexpected expansion or merge acquisition and change in operation
- Cancellation of allowances is possible when:
  - there is a closure;
  - delay in operation of over 3 month; or
  - suspension of operation of 1 year
- Up to 3 times the average market price
- Max of 100 thousand KRW (US\$ 91)/tCO2e



# 4. ETS (Issues and experience)

#### **Experts and NGOs**

- Legislation
  - act now
  - momentum for green growth

#### • NAP

- act now
- momentum for low-carbon & creative economy
- cap too high to boost technology investment

#### Industry

#### Legislation

- wait for international agreement and act later
- negative effects on national economy

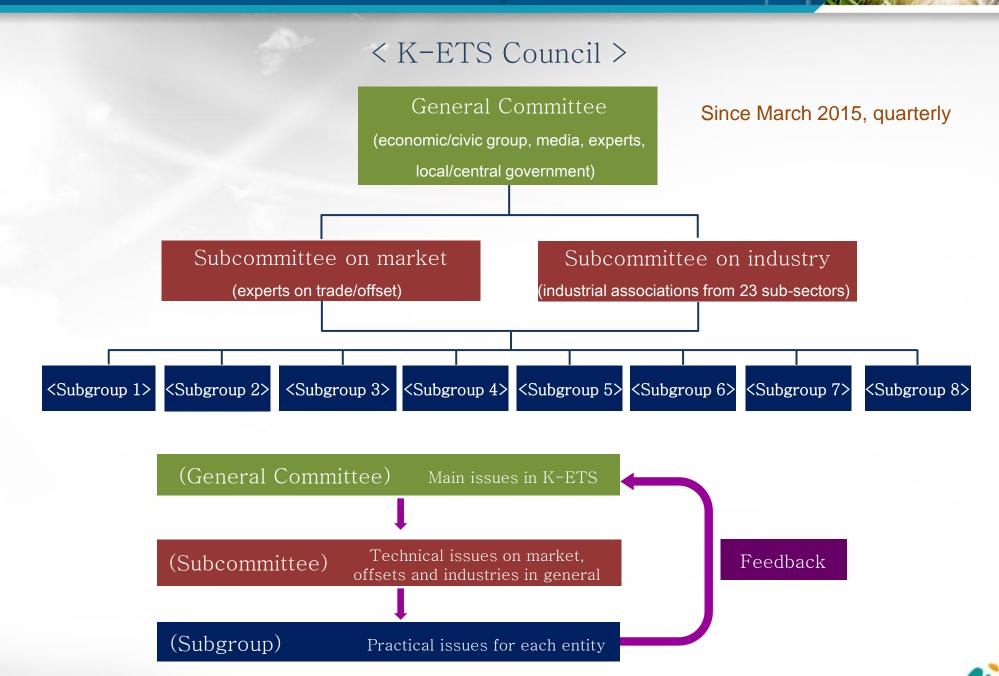
#### • NAP

- wait for international agreement and Act later
- negative effects on national economy
- cap too low

• Tens of public hearings, dozens of stakeholder meetings....



# 4. ETS (Issues and experience)



# 4. ETS (Current Status and Future)



International Accreditation Forum



# Thank you!