





CJK Joint Work on Low Carbon Sustainable Cities

NCSC-IGES-KEI

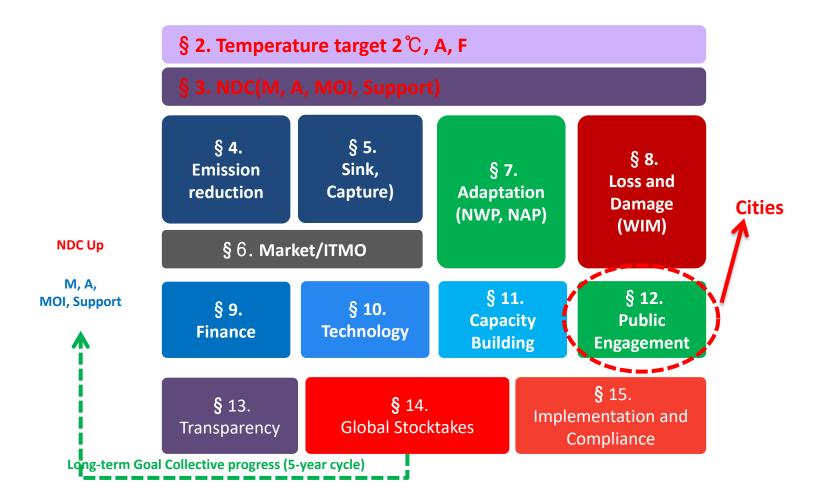
September 29, 2020

presented by Dr. Sang In KANG Chief Research Fellow Korea Environment Institute RECOGNITION OF NON-PARTY STAKEHOLDERS UNDER UNFCCC (LOCAL GOVERNMENTS, CITIES, COMMUNITIES, NGOS, 2010~)



"ARTICLE 8: PUBLIC ENGAGEMENT" OF PARIS AGREEMENT

(LOCAL GOVERNMENTS, CITIES, COMMUNITIES, NGOS, AS NON-PARTY STAKEHOLDERS



GLOBAL INITIATIVES FOR LOCAL ACTIONS (GLOBAL COVENANT OF MAYORS, 2017)



Covenant of Mayors(2008, EU Climate and Energy Package)
+Compact of Mayors(2014, Ban & Bloomberg)

= Global Covenant of Mayors

- 파트너기관: <u>C40</u>(세계도시기후정상회의, 2005, 런던, 서 울시); I<u>CLEI</u>(International Council for Local Environmental Initiatives(1990, UN 지방정부세계회의, 수원시) - Local Go vernments for Sustainability(2003)), <u>UCLG</u>(United Cities and Local Governments, 지방정부도시연합, 2004, 바르셀로나, 제주도), <u>CITYNET</u>(1987, 요코하마, 서울), <u>UN Habitat</u>,
- <u>European Commission, European Union(Committee of the R</u> <u>egions), Climate Alliance, Council of European Municipalities</u> <u>and Regions</u> (CEMR), <u>Eurocities, Energy Cities and European</u> <u>Federation of Agencies and Regions for Energy and the Envir</u> <u>onment (FEDARENE)</u>, <u>Joint Research Center(JRC)</u>, ...

PREPARATORY WORK (SEPT. 2017)



Date: Two days during 6th-7th September 2017 Venue: China People's Palace, Beijing

Host: Ministry of the Environment, Japan (MOEJ) Co-organizers: Institute for Global Environmental Strategies (IGES) Energy Research Institute of the National Development and Reform Commission (ERI)

PREPARATORY WORK (SEPT. 2017)



PRE-TECHNICAL MEETING (GGGI, IGES, KEI, JUNE 2017)

Pre-Technical Meeting: China-Japan-Korea (CJK) Green Growth Collaboration Program on Low Carbon Cities 20 – 21 June 2018, Seoul, Republic of Korea



SUZHOU WORKSHOP (TEEM-20 SIDE EVENT) (NCSC, IGES, KEI, 23 JUNE 2017)

What kind of impact we want to make and what we can produce?

Share our challenge with the world!

- Summarize Best practices of CJK cities!
- Learn each other among CJK cities and beyond
- Guide cities in the world based on our lesson learns

by Case studies,

Guidelines,

Pilot projects, etc

LAUNCHING CJK JOINT WORK (GGGI, IGES, KEI, JUNE 2017)

City Climate Actions in collaboration of China, Japan, Korea Introduction to China-Japan-Korea Joint Research Project on Cities - towards decarbonization and sustainable development –

Joint Communiqué

The 20th Tripartite Environment Ministers Meeting

among China, Japan and Korea

23-24 June 2018, Suzhou, China



21. The Ministers welcomed the preparatory work done to date and agreed on launching the joint research on cities towards decarbonization and sustainable development in 2018. https://www.env.go.jp/press/files/jp/109425.pdf

2ND JOINT WORKSHOP YOKOHAMA 2019 (UNESCAP NEA (IN CHARGE OF NEASPEC INVITED)



FY2019

GOOD PRACTICES TOWARD DECARBONIZATION AND SUSTAINABILITY



Good Practices Towards Decarbonization and Sustainable Cities

2019



This publication presents major output from the joint research program in the 2018-2019.

Good practices towards decarbonization and sustainable development are quoted from case studies within and outside of CJK joint study

It is expected that the CJK joint study outcome could help officers in charge of local climate actions the Asia and Pacific cities and communities.

SELECTED GOOD PRACTICES

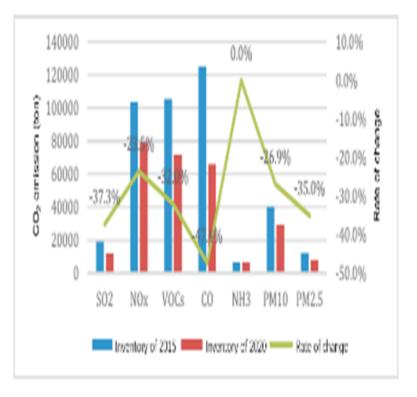
(CHINA, SHENZHEN)

Shenzhen, China synergy from CO2 & PM2.5 management

- An urgent policy issue for Shenzhen is air pollution control, with the city assigned a PM2.5 concentration improvement target by the national government.

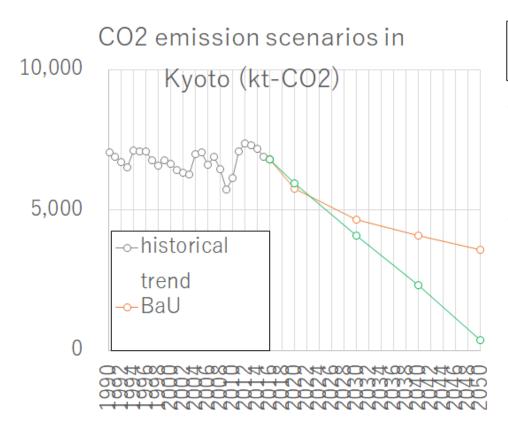
- Shenzhen has addressed this issue in two stages in order to understand the synergy between air pollution control and CO2 reduction measures.

- In order to fulfil this air quality goal, Shenzhen did an analysis of common root on CO2 and PM2.5 (LEAP model and WRF / smoke / CMAQ air quality simulation platform were comprehensively applied).



SELECTED GOOD PRACTICES

(JAPAN, KYOTO)

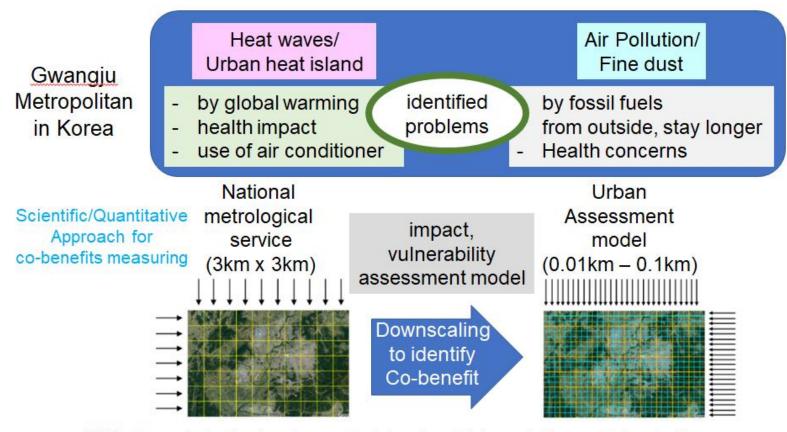


Kyoto, Japan quantitative approach

- In 2019 to analyze the technical feasibility analysis in 2019 for Kyoto City to achieve a decarbonized society by 2050.
- Preliminary estimations of technical feasibility analysis in 2019 shows Kyoto can achieve a decarbonized society by 2050 of the city's energy consumption compared to the levels in 2015, and if electricity is fully sourced by renewable generation.

SELECTED GOOD PRACTICES

(KOREA, GWANGJU METROPOLITAN CITY)



ICEC Gwangju in the development of develops high resolution modeling tools to identify co-benefit solutions of CO2 reduction and local health issue

4 key elements of success

(from major lessons learned from case studies and expert consultations)

1. Science based approach comes first

- quantitative targeting and monitoring
- solid supporting tools for decision making

2. Stakeholders engagement proves essential

- effective implementation of local action
- allowing more ambitious visioning and targeting

3. Horizontal collaboration within local government.

- implementation environment improvement (strategy, budget, planning, role sharing, …)
- enhancing coordinated local actions
- 4. Co-benefits of local climate action
 - inter sectorial synergy for energy, water, sustainable urban-infra, community development, etc.

MILESTONES (2018~2021)

(CJK JOINT WORK LED BY NCSC, IGES, KEI)

2018	October December	1st Joint Research Workshop in Beijing (major outcomes of case studies presented) COP24 official side event with 3 Ministers (synthesis report presented)
2019	 July September October November	Technical meetings (Handbook of Good Practices) 2 nd Joint Research Workshop Kitakyushu in Japan <u>High Level Political Forum on SDGs in UNHQ, NY</u> <u>Senior Officer Meeting NEASPEC UNESCAP</u> (outreaching at Low Carbon City Platform) TEMM21 Kitakyushu in Japan COP25 side event at Japan Pavilion
2020	 November November	Technical meetings 3 rd Joint Research Workshop Cheong-ju in Korea TEMM22 Cheong-ju in Korea
2021	 (tbc) Nov/Dec	preparatory workshops for next cycle of joint study TEMM23 in China COP26 side event

FUTURE OF CJK JOINT STUDY FRAMEWORK (2021~)

Continue to work with cities and colleague institutes in the Asia and Pacific with a renewed program...