

**Workshop on Regulatory Framework and Enforcement to Address Air Pollution:
Cross-country sharing of lessons learned**

Silver Hall, 3rd Floor, Development Research Center of the State Council

225 Chaoyangmennei Avenue, Dongcheng District, Beijing 100010

Beijing, 26-27 June 2019

Draft agenda

Wednesday 26 June 2019

Opening Session

9:00 – 10:00

Opening remarks by co-Chairs

Dr. Gao Shiji, Director-General of the Institute for Resources and Environmental Policy, DRC (15 minutes).

Ms. Irène Hors, Deputy Director, OECD Public Governance Directorate (15 minutes).

Opening remarks by Delegations

Dr. LI Zuojun, Deputy Director General, IREP-DRC, Head of Chinese Delegation (10 minutes).

Mr Young Woo Kim, Director, Air Quality Policy Division, Ministry of Environment, Korea (10 minutes).

Mr Katsumasa Seimaru, Director, International Cooperation Office, Environment Management Bureau, Ministry of the Environment, Japan (10 minutes).

1. Policy tools to control air pollution: economic instruments (e.g. levies, emissions trading) and other policy instruments (e.g. voluntary agreements, standards, phase-out and restrictions)

Chair: Kumi Kitamori

10:00 – 11:15

Policy mix to control air pollution: environmental policies and overall policy alignment, Enrico **Botta**, Policy Analyst, OECD (10 min).

The Japanese policy mix to address recent challenges: PM and OX pollution, Mr Katsumasa **Seimaru**, Director International Cooperation Office, Ministry of the Environment, Japan (10 min).

The Chinese policy mix and action to address recent challenges of air pollution in China, Sun **Yamei**, Research Fellow, Chinese Academy of Environmental Planning of MEE (10 min).

Tour de table – The policy mixes adopted by the different countries for different pollutants (5 min each):

- Chinese experience (Dr.Chen Jianpeng, Research Fellow, DRC)
- Korean experience (MoE expert)
- US experience (EPA expert)

- European experience (EU or UNECE expert)
- Canadian experience (Environment & Climate Change Canada expert)

Open discussion - Key questions:

- How have countries used economic and other types of policies to regulate air pollution? Are there differences connected to cultural, structural or historic reasons?
- What are the main lessons learnt from country experiences in designing and introducing such instruments, including adaptability in different context? Are there specific insights for different pollutants?
- Are these lessons applicable also to other countries and pollutants, such as PM, which is a recent policy priority in many countries?
- What are the benefits and drawbacks of the different approaches to standards setting for mobile sources?

11:15-11:30

Coffee Break

2. Permitting procedures for SMEs and large industrial installations: From general binding rules to Best Available Techniques (BAT)

Chair: Kumi Kitamori

11:30 – 13:00

Recent progress of China's pollution permitting system, Song Guojun, Professor, Renmin University of China (15 min).

The adoption of the Best Available Techniques for controlling industrial pollution in Korea, Kim Young SIK, Deputy Director, Integrated Permit System Division, Ministry of Environment, Korea (10 min).

Tour de table – Permitting strategies adopted by the different countries (5 min each):

- Chinese experience (Ran Lijun, Senior Engineer, Appraisal Center for Environment and Engineering (ACEE) of MEE)
- Japanese experience (MoE expert)
- US experience (EPA expert)
- European experience (EU or UNECE expert)
- Canadian experience (Environment & Climate Change Canada expert)

Open discussion - Key questions:

- What are benefits and drawbacks of the different permitting procedures for industrial installations?
- What are the key challenges, benefits and drawbacks of introducing a BATs approach in Korea? And in other jurisdictions? Do these considerations apply to all traditional pollutants (e.g. PM, SO_x, NO_x)?
- What lessons learned from cross-country experiences?

13:00-15:00

Lunch Break

3. Monitoring and Enforcement

Chair: Dr. Wang Haiqin, IREP-DRC

15:00-16:30

Recent development of China's environmental monitoring system within the framework of enhanced environmental regulation, experts of MEE, (20 min)

Air Pollution Monitoring in China, Chan Yang , OECD (15 min)

The OECD Enforcement and compliance Toolkit, Daniel Trnka, Senior Policy Analyst, OECD (15 min)

Tour de table – Key challenges and best practices for Monitoring and Enforcement in the different countries:

- Chinese experience(Dr. Wang Haiqin, Research Fellow, DRC)
- Japanese experience (MoE expert)
- Korean experience (MoE expert)
- US experience (EPA expert)
- European experience (EU or UNECE expert)
- Canadian experience (Environment & Climate Change Canada expert)

Open discussion - Key questions:

- How do countries differ in their monitoring & enforcement activities for SMEs and large installations? What balance between compliance promotion and violation sanctioning?
- What opportunities do new technologies offer to monitoring and enforcement activities?
- Are the lessons of the Chinese experiences applicable also to other countries?

16:30-16:45

Coffee Break

4. The role of cities in addressing air pollution: The experiences of Beijing, Seoul and Tokyo in controlling emissions of PM and other pollutants

Chair: Dr. Wang Haiqin, IREP-DRC

16:45 – 18:15

Policies and practice of Air pollution control in Beijing, Xie Jinkai, Beijing Municipal Ecological Environment Bureau.

Best practises and key challenges to control air pollution: the experience of Seoul, Lee Jun Bok, Researcher, Air Quality Policy Division, Seoul Metropolitan Government.

Best practises and key challenges to control air pollution: the experience of Tokyo, Teruyuki Takahashi, Director, Tokyo Metropolitan Government, Air Protection Section, Environmental Improvement Division

Open discussion - Key questions:

- What are the best practises to address air pollution at city level?
- How to evaluate the economic and environmental outcomes of the implemented measures?
- How to increase cooperation among municipalities to tackle pollution originating outside the jurisdiction of affected cities?
- Are there any trade-off between pollution control and inclusivity?

18:15-18:30 Wrap-up and end of Day One

Thursday 27 June 2019

5. Promoting international regulatory co-operation (IRC) on air pollution

Chair: Dr. Chang Jiwen, Deputy Director General, IREP-DRC

9:30 – 11:00

Key considerations on international regulatory cooperation, Céline Kauffmann, OECD (10 min)

Lessons learnt from the US-Canada experience on bilateral regulatory cooperation on air pollution, Paul Almodóvar, Lead Environmental Engineer, US - EPA (15 min).

Lessons learnt from the Pan-European experience under the CLRTAP, Mr Paul Almodóvar, Lead Environmental Engineer, US - EPA(15 min)

Existing international cooperation arrangements to address air pollution in North-East Asia, Camila Saffirio, OECD (15 min)

Air quality modelling: Economic consequences of air Pollution, Elisa Lanzi, OECD (15 min)

Open discussion and Q/A

Open discussion – Key questions:

- What lessons learnt from the CLRTAP and US-Canada Air Quality Agreement can usefully inform the development of regulatory co-operation on air quality in North-East Asia?
- What are the key challenges to promote international regulatory co-operation on air quality in North-East Asia today?
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11:00-11:30 Wrap-up and end of workshop

Closing Remark by Dr. Shiji Gao, Director-General of the Institute for Resources and Environmental Policy, DRC

Next steps, Kumi Kitamori, Head of Division, Green Growth and Global Relations, Environment Directorate, OECD

List of participants

Number	Country	Name	Organization	Title
1.	Australia	CARLTON Freya	Embassy of Australia in China	Second Secretary
2.	Australia	PEAK Elizabeth	Embassy of Australia in China	Minister Counsellor
3.	Australia	YIN Evelyn	Embassy of Australia in China	Senior Research and Program Officer
4.	Canada	BACKSTR OM David	Environment and Climate Change Canada, Air Emissions Priorities Division	Manager, International Engagement
5.	China	GAO Shiji	Institute for Resources and Environmental Policy, Development Research Center of the State Council (DRC)	Director General Research Fellow
6.	China	Li Zuojun	Institute for Resources and Environmental Policy, Development Research Center of the State Council (DRC)	Deputy Director General Research Fellow
7.	China	Chang Jiwen	Institute for Resources and Environmental Policy, Development Research Center of the State Council (DRC)	Deputy Director General Research Fellow
8.	China	Cheng Huiqiang	Institute for Resources and Environmental Policy, Development Research Center of the State Council (DRC)	Assistant to Director General Research Fellow
9.	China	Hong Tao	Institute for Resources and Environment Policy Studies, Development Research Center of the State Council	Associate Research Fellow
10.	China	WANG Haqin	Institute for Resources and Environment Policy Studies, Development Research Center of the State Council	Research Fellow
11.	China	Chen Jianpeng	Institute for Resources and Environment Policy Studies, Development Research Center of the State Council	Research Fellow
12.	China	Li Weiming	Institute for Resources and Environment Policy Studies, Development Research Center of the State Council	Associate Research Fellow
13.	China	Yu Min	Institute for Resources and Environment Policy Studies,	Assistant Research Fellow

			Development Research Center of the State Council	
14.	China	Huang Junyong	Institute for Resources and Environment Policy Studies, Development Research Center of the State Council	Policy Analyst
15.	China	Jiang Huohua	Ecological Environment Department of Ministry of Ecology and Environment	Deputy Director General
16.	China	Ran Lijun	Appraisal Center for Environment and Engineering (ACEE) of MEE	Senior Engineer
17.	China	TBC	The Foreign Economic Cooperation Office of MEE	
18.	China	Sun Yamei	Chinese Academy of Environmental Planning of MEE	Research Fellow
19.	China	Song Guojun	Renmin University of China	Professor
20.	China	Xie Jinkai	Beijing Municipal Ecological Environment Bureau.	
21.	Japan	SEIMARU Katsumasa	International Cooperation Office, Policy and Coordination Division, Environment Management Bureau Ministry of Environment, Japan	Director
22.	Japan	MASUDA Shogo	Embassy of Japan in China	First secretary
23.	Japan	TAKAHASHI Teruyuki	Air Protection Section, Environmental Improvement Division, Bureau of Environment, Tokyo Metropolitan Government	Director
24.	Japan	TAKAHASHI Kazuki	Air Protection Section, Environmental Improvement Division, Bureau of Environment, Tokyo Metropolitan Government	Deputy Director
25.	Korea	Kim Young WOO	Air Quality Policy Division of Ministry of Environment, Korea	Director
26.	Korea	LEE Suni	Air Quality Policy Division of Ministry of Environment, Korea	Deputy Director
27.	Korea	YOU So Jung	Air Quality Policy Division of Ministry of Environment, Korea	International Cooperation Advisor
28.	Korea	KIM Young Sik	Integrated Permit System Division of Ministry of Environment, Korea	Deputy Director
29.	Korea	LEE DaeGyun	National Institute of Environmental Research of Ministry of Environment, Korea	Senior Researcher

30.	Korea	PARK Hyun Ju	National Institute of Environmental Research of Ministry of Environment, Korea	Researcher
31.	Korea	KIM HyungCheon	National Council on Climate and Air Quality, Korea	Researcher
32.	Korea	LEE Tai Hwan	The Sejong Institute	Emeritus Senior Fellow
33.	Korea	LEE Jun Bok	Air Quality Policy Division of Seoul Metropolitan Government	Researcher
34.	Korea	KIM Hyo Dong	Air Quality Policy Division of Seoul Metropolitan Government	Assistant Deputy Director
35.	Korea	PARK SeongYeon	Air Resources Division of Incheon Metropolitan City	Team Leader
36.	Korea	KIM Dongyoung	Gyeonggi Research Institute	Senior Researcher
37.	Korea	CHU Jangmin	Korea Environment Institute	Chief Research Fellow
38.	Korea	LEE Seungmin	Korea Environment Institute	Research Fellow
39.	Korea	LYU Youngsook	Korea-China Air Quality Joint Research Team	Team Leader
40.	Korea	NOHJaeyoung	Korea-China Air Quality Joint Research Team	Team Leader
41.	USA	ALMODOVAR Paul	United States Environmental Protection Agency	Lead Environmental Engineer
42.	USA	VOORHEES Arthur Scott	United States Environmental Protection Agency	Environmental Scientist
43.	UNECE		Secretariat for Convention on Long-range Transboundary Air Pollution (CLTAP)	
44.	OECD	HORS Irene	OECD, Regulatory Policy Division, Directorate for Public Governance	Deputy Director
45.	OECD	KITAMORI Kumi	OECD, Green Growth and Global Relation Division, Environment Directorate	Head of Division
46.	OECD	KAUFFMANN Céline	OECD, Regulatory Policy Division, Directorate for Public Governance	Deputy head of Division
47.	OECD	TRNKA Daniel	OECD, Regulatory Policy Division, Directorate for Public Governance	Senior Policy Analyst
48.	OECD	BOTTA Enrico	OECD Green Growth and Global Relation Division, Environment Directorate	Policy Analyst

49.	OECD	SAFFIRIO Camila	OECD, Regulatory Policy Division, Directorate for Public Governance	Policy Analyst
50.	OECD	LANZI Elisa	OECD, Environment and Economic Integration Division, Environment Directorate	Policy Analyst
51.	OECD	CHAN Yang	OECD External Expert	Policy Consultant