Multilateral Cooperation on Air Pollution in North-East Asia

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North-East Asian Context of Air Pollution

- Heavy reliance on fossil fuel use: e.g. global CO2 emissions – 34.5% in 2016 (including Russia- 39%)
- High exposure of air pollution to the public
- Heavy impacts of transboundary air pollution
- Increasing public awareness and policy intervention

- **Limited scope of bi/multilateral cooperation on air pollution**
Heavy reliance on fossil fuel use: e.g. global CO2 emissions – 34.5% in 2016 (including Russia- 39%)

High exposure of air pollution to the public

Deaths attributable to household and outdoor air pollution, 2012 (WHO and IEA)
Transboundary impacts of air pollution: particularly, PM and yellow dust

The figures indicate the share of PM2.5 originated from its own source in 2013.

By Busan National University, submitted to 19th LTP expert meeting
Increasing public awareness and policy intervention, particularly, in China

PM2.5 Annual Average Concentration (µg/m³)

- Beijing
- Tianjin
- Hebei

PM2.5 density
2012
Beijing-Tianjin-Hebei Region: 25%
Yangtze River Delta Region: 20%
Pearl River Delta Region: 15%
Limited scope of bi/multilateral cooperation on air pollution

North-East Asia Clean Air Partnership (NEACAP, six NEA countries): a new platform for science-based, policy-oriented cooperation

Acid Deposition Monitoring Network in East Asia (EANET, excluding DPRK)

Long-range Transboundary Pollutants in North-East Asia (LTP – China, Japan and ROK): modeling of source-receptor relationship
Air Pollution

Biodiversity

- Launched in 1993 by six North-East Asian countries, i.e. China, DPR Korea, Japan, Mongolia, RO Korea and Russia
- Supported by ESCAP (Secretariat)

Climate Change

Desertification and Land Degradation
North-East Asia Clean Air Partnership (NEACAP)

Comprehensive platform on air pollution in North-East Asia for science-based, policy-oriented cooperation launched in October 2018

Supported by CLRTAP secretariat and experts

Initiated by the Russian Federation
NEASPEC: process towards NEACAP

1996-2011
- Technical assistance on air pollution mitigation from coal-fired power plants

2010-2013
- Identifying new NEASPEC approaches and programme

2014-2018
- Study and consultations on a new subregional framework

Technical supports from CLRTAP secretariat and experts
NORTH-EAST ASIA CLEAN AIR PARTNERSHIP

Comprehensive platform on air pollution in North-East Asia for science-based, policy-oriented cooperation

- Promote environmental cooperation, including its science, policy and technical aspects
- Enhance and further develop information and experience exchange
- Act as the key voluntary framework in addressing transboundary air pollution issues in North-East Asia
- Contribute, as appropriate, to the development of relevant national and subregional policies;
- Promote knowledge on environmental and human health aspects of air pollution.

Particulate Matter (PM2.5 and PM10) and Ozone, and other relevant pollutants, including Sulfur Oxides (SOx), Nitrogen Oxides (NOx), Black Carbon, Ammonia (NH₃) and Volatile Organic Compounds (VOCs).
Exchanging information and data
- Emission data, transport and deposition of target pollutants, emissions control technologies and national policies, and research on modeling and emission inventory

Coordinating with relevant mechanisms
- Subregional emissions inventory, monitoring, transport and deposition modelling of air pollution, and integrated assessment modeling

Proposing potential technical and policy measures
- Consultation meetings, technical and policy scenarios, and information exchange on emerging technologies and good practices
A Key Programme: **Policy scenario/ Integrated Assessment Modeling**

- Monitoring and Modelling on pollution concentration
- Emission inventory
- Control measures: Policies of technologies
- Effects on health and environment
- Integrated Assessment Modelling
- Policy scenarios on mitigation options
SOM: NEASPEC Senior Officials Meeting
SPC: Science and Policy Committee
WG: Working Groups
TCs: Technical Canters