EU Action on Black Carbon in the Arctic

Implementing the European Union initiative in support of International Action on black carbon in the Arctic

Northern Dimension Forum
19 November 2018, Brussels

Russel Shearer (AMAP Secretariat)
Technically feasible black carbon reduction potential

- Up to three quarters of global anthropogenic BC emission could be eliminated by 2030
- Arctic warming could be reduced by 0.25 °C by 2050 by full global implementation of maximum technically feasible emission reductions measures
Objectives of Action

• To contribute to the development of collective responses to reduce black carbon emissions in the Arctic and to the reinforcement of international cooperation to protect the Arctic environment.

• Support, promote and enhance the process of setting clear commitments and/or targets on major BC sources with the potential to affect the Arctic (gas flaring, domestic heating, maritime shipping);

• Move forward a process leading to enhanced international cooperation on black carbon policy in the Arctic region.

Arctic focus; Black carbon only (not methane)
Regional context for the Action

- **Arctic Council Member Countries**
- **Arctic Council Observer Countries**
The aspirational collective goal:

• “Recognizing that several Arctic states have already drastically reduced emissions, Arctic States resolve to collectively further reduce black carbon emissions by at least 25-33 percent below 2013 levels by 2025”
Partnerships: Key to Success

Inter-programme cooperation/coordination:
- UN ECE Convention on Long-range Transboundary Air Pollution (LRTAP)
- Arctic Council
- Climate and clean Air Coalition (CCAC)
- UNFCCC/IPCC

Strategic partners
- Informal consultations to build collaboration and make links with national action plans, etc.

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<th>Arctic Council</th>
<th>LRTAP</th>
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<tr>
<td>Coordination</td>
<td>AC, AMAP WG</td>
<td>Executive Body</td>
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<td>Monitoring (trends and effects)</td>
<td>AMAP WG</td>
<td>EMEP-CCC, TFMM</td>
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<tr>
<td>Modelling</td>
<td>AMAP EGs (SLCFs, POPs, Hg, etc.)</td>
<td>TFHTAP, MSC-E, MSC-W, TFEIP, CIAM, TFMM</td>
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<tr>
<td>Scientific assessment (SOx, NOx, SLCFs (BC, CH₄, O₃, etc.), POPs, Hg)</td>
<td>AMAP assessment groups (SLCFs, POPs, Hg, etc.)</td>
<td>WGE, TFEIP,</td>
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<td>SLCP (policy)</td>
<td>AC EG BCM</td>
<td>TFEIP, CEIP</td>
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<tr>
<td>Integrated assessment</td>
<td>AMAP assessment groups (SLCFs, POPs, Hg, CEG, HHAG, etc.)</td>
<td>TFIAM, CIAM</td>
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Commonality of member countries
Limited resources (expertise)
The EU Action connects efforts to reduce black carbon emissions

Because black carbon lasts only a few days or weeks in the atmosphere, reducing emissions can act as a rapid brake on Arctic warming, helping to slow the rate of change while nations implement long-term strategies.
Organization and Implementation plan

- EU Partnership Instrument - 1.5 million EUR over 3-year implementation period (2018-2021)

- Coordinated by AMAP Secretariat; key partners SYKE, IIASA, UBA/CEIP, IVL, NILU, Carbon Limits

- Four work-packages developed to reflect desired ‘results’.
1. Improved knowledge base on BC emissions

- Mapping observing systems [datasets for validation of models]
- Mapping reporting/inventory systems
- Mapping of technical advice
- Developing next generation emissions / scenario datasets

Identification of gaps

Coordination of work under AC

EGBCM, CLRTAP EMEP, CCAC and IPCC
2. Increased awareness and shared knowledge

- 3 Technical reports / Datasets for use in multiple activities / 2 Technical workshops
- Contribution to work to update climate (and co-effects) impact assessments
- Interagency consultation (informal) and strategic partners (Canada, Russia, USA)
- Visibility Actions targeting policy fora
## Relevant Events 2018

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<tr>
<th>2018</th>
<th>EVENTS</th>
<th>LOCATION</th>
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<tr>
<td>February 5</td>
<td>Canadian Collaboration Meeting</td>
<td>Ottawa, Canada</td>
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<td>February 19-21</td>
<td>CLRTAP - EMEP Bureau Meeting</td>
<td>Madrid, Spain</td>
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<td>March 19-21</td>
<td>Saltsjöbaden VI Conference</td>
<td>Gothenburg, Sweden</td>
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<td>May 2-4</td>
<td>1st EUA-BCA Technical Workshop held at IIASA</td>
<td>Laxenburg, Austria</td>
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<td>May 22-25</td>
<td>UN-ECE - CLRTAP – 56th Session of Working Group on Strategies and Review (WGSR) Meeting</td>
<td>Geneva, Switzerland</td>
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<td>May 29-31</td>
<td>IPCC Expert Meeting on Short-Lived Climate Forcers, including black carbon.</td>
<td>Geneva, Switzerland</td>
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<td>June 13</td>
<td>2nd EU-Canada Collaboration Meeting</td>
<td>Ottawa, Canada</td>
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<td>September 10-14</td>
<td>4th Joint Session of the EMEP Steering Body and WG on Effects and 41st Session of Implementation Committee</td>
<td>Geneva, Switzerland</td>
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<td>September 20-21</td>
<td>AC’s Expert Group Black Carbon and Methane Meeting</td>
<td>Helsinki, Finland</td>
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<td>October 11-12</td>
<td>Arctic Environment Ministers meeting (focus area on SLCFs)</td>
<td>Rovaniemi, Finland</td>
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<td>October 25-26</td>
<td>Arctic Science Ministerial meeting</td>
<td>Berlin, Germany</td>
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<td>November 13-15</td>
<td>AMAP SLCF EG meeting</td>
<td>Bologna, Italy</td>
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<tr>
<td>November 15-16</td>
<td>2nd EUA-BCA Technical Workshop</td>
<td>Bologna, Italy</td>
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<td>December 3-14</td>
<td>Arctic Council side-event on black carbon at UNFCCC COP-24</td>
<td>Katowice, Poland</td>
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<td>December 10-14</td>
<td>CLRTAP Executive Body – 38th Meeting (Extensions to Gothenburg Protocol)</td>
<td>Geneva, Switzerland</td>
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3. Analytical and technical advice documents and scenario analysis

- Overview of information currently available
- Best available technology (BAT) (economically achievable) Guidance e.g., gas flaring
- Analytical and technical advice documents
- Scenario analyses
4. Roadmap for international cooperation on black carbon

- Summaries for Policy-makers
- Assess National regulations – regional initiatives – global action
- Alignment of policy initiatives
- Urgency of actions – e.g. 1.5 C report
- Co-effects and Co-benefits (climate impacts; air quality and human health benefits; integrated air pollution strategies)
- Assess Costs and Degree of implementation of agreed measures
Bridging/complementarity of EU Action with other international initiatives
Check EUA-BCA Website:

www.amap.no/EU-black-carbon-action