Arctic Contaminants Action Program (ACAP) Working Group
Report for the Senior Arctic Officials (SAO)
Whitcombie 11 October, 2013
Jaakko Henttonen
ACAP Chair

Contents
- ACAP activities on short-lived climate forcers;
- Work on mercury;
- Work on polychlorinated biphenyls;
- Other forward-looking activities
- Obsolete pesticides
  - Request for final report approval

Short-lived Climate Forcers
- Continues implementing two projects
  - Black Carbon Reduction from Residential Wood Combustion (NO/FI)
  - Diesel Black Carbon Reduction in the Russian Arctic (US)
- New project approved for implementation
  - AC Platform for Black Carbon Case Studies and Best Practices (US)
- Additional projects, contingent on PSI funding, under development

Reduction of Black Carbon Emissions from Residential Wood Combustion
- Co-lead and co-financed by Norway and Finland
- Denmark, Sweden, Finland, Norway, Canada and USA participate
- Shared pan-Arctic challenges
  - Improved information sharing
  - Common pan-Arctic messaging
  - Better indicators for black carbon robust technology
  - Increased confidence in emission inventories
- Recommendations expected in 2014

Project Findings
- Relatively stable emission levels (2000-2010)
- Increasing wood consumption, but reduced emissions expected towards 2030 due to technology replacements
- Abatement instruments span from strict burn bans to soft information campaigns
- Considerable uncertainty related to the BC emission inventories

Diesel Black Carbon Reduction in the Russian Arctic
- $1 million USD for on-road transport sector BC emission reduction in Murmansk; climate and health benefits
- Finalized emissions inventory (EI) methodology and held EI workshop in April
- Circumpolar Workshop on Best Practices for Black Carbon Mitigation from Diesel Sources in the Arctic - December 10-11 (Moscow)
- RFP for procurement of improved vehicle emission controls anticipated in early 2014
**Black Carbon Platform**

- New project: Approved by ACAP in September
- Project Deliverables:
  - Develop initial set of arctic black carbon case studies by mid-2014
  - Expand case studies and collect best practices
  - Develop platform as resource to AC Members and others by 2015; explore working with AC Secretariat
- Project is scalable depending on available resources

**NEFCO projects**

- Sweden
  - About 2 million SEK available in SLCF Trust Fund with NEFCO. Resource allocations to be identified and considered, including through the ACAP-PSG
  - NEFCO Early Start Projects
    - 12 million Euro to address SLCFs through energy efficiency and cleaner production projects in NW Russia
    - “Early Start” projects expected to be implemented within the next 9-12 years

**Nefco SLCFC projects**

- Three SLCP initiatives with respective sub-projects under development
  - Project 1-M: Reduction of Methane Emissions
  - Project 2-BC: Reduction of Black Carbon Emissions
  - Project 3-HFC: Mitigation of HFC Emissions (End-of-Life Equipment)
  - Partners: Interest FIN, NEFCO, NO, RF, SE, USA
  - Total cost up to EURO 77 million. Not all Projects are expected to proceed, however, subject to feasibility studies underway

**Work on Mercury**

- Reduction of mercury releases from non-ferrous metals smelters in the Russian Federation (US, RF, Nefco)
  - Estimated budget Euro 35 million
  - Timeline about 2 years from start of project
- Mercury Emissions Reduction Technology Workshop for Coal Fired Power Plants (US, RF)
  - US and Russia successfully demonstrated carbon sorbent emissions control technology
  - Follow up workshop to disseminate information to other plant operators
  - The projects are expected to seek PSI funding

**Work on Polychlorinated Biphenyls**

- PCB management and destruction in Russia
  - About Euro 3 million
  - On hold awaiting PSI mobilization
- Franz Josef Land activities
  - NEFCO-BHSF Study underway
  - EUR 30 000 for developing Project Proposal for submission to ACAP-PSG

**Looking Ahead**

- ACAP developing mercury waste project (RF) at November meeting
  - Russia developing the IHWMS project proposal
- Baseline study of project needs among Indigenous People’s Contaminant Action Program (IPCAP) under initial development
Looking Ahead (2)

- Black carbon projects have momentum, possible links to TFBCM should be explored
  - PSG reviewing Russian project proposal on national black carbon emissions inventories
- While ACAP explores novel funding approaches, PSI funding is critical to implement portions of projects that result in emissions reduction

Potential for Implementing Phase III

- A high-temperature incineration facility has started in Krasnoyarsk in June
  - Private investment, mostly for medical waste
  - ACAP/FAO expert review: potential for destruction of pesticides and PCBs
  - Permitting situation unclear
  - Further work in cooperation with FAO

Final Phase I and II report

- ACAP has finalised the report for inventory and repackaging phases
- Invite the SAO to consider and approve the report and its three recommendations

Recommendations of the ACAP Working Group

- Regions working with ACAP should maintain interim storage facilities in good condition to ensure that their contents do not pose a threat to human health or the environment until the obsolete pesticides are destroyed in an environmentally sound manner.
- Regions working with ACAP should continue to identify and remove any remaining obsolete pesticides stored under poor conditions to better interim storage facilities until they can be disposed of in an environmentally sound manner.
- The Russian Federation should establish facilities for the environmentally sound destruction of obsolete pesticides and other hazardous wastes as soon as possible to mitigate risks to the environment and to human health.
Thank you for your attention!