

The opportunity for rapid action on near term climate change & air quality



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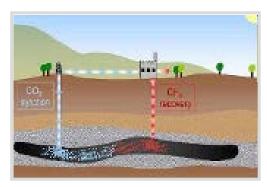
The SLCP Challenge

Compelling scientific evidence:

- SLCPs, including BC and methane, are responsible for a substantial fraction of near-term climate change
- BC (soot), methane and topospheric ozone (smog) are air pollutants with detrimental impacts on public health, agriculture and ecosystems
- Mitigating SLCPs brings multiple benefits to support climate, health/air pollution and development agendas.



16 Measures



Methane

- Degasification, recovery and use
- Recovery from municipal waste & wastewater treatment
- Reduce emissions from agriculture



Black carbon

- Improve stoves (biomass to LPG/biogas, wood to pellet)
- Upgrade brick kilns
- Use particle filters for diesel vehicles

16 'win-win' measures:

≈- 40% methane, ≈- 80% BC in 2030 (rel. to BAU)

No technical breakthroughs

Already implemented in many countries

Half reductions at low cost or cost-neutral



The Coalition

- Voluntary, Partner-led effort bringing together diverse governments, IGOs,
 NGOs and private sector entities to leverage high-level engagement and action
- Launched by 6 countries and UNEP in February 2012:
- Now has 61 Partners (32 State; 29 Non-State) including the EC
- All Partners have endorsed meaningful action to address SLCPs
- 9 Initiatives for rapid implementation
- Complementary to global efforts to reduce CO2, in particular under UNFCCC





CCAC Initiatives

Reducing BC
Emissions from
Heavy Duty
Diesel Vehicles
and Engines

Mitigating SLCPs from the Municipal Solid Waste Sector Mitigating BC and Other Pollutants from Brick Production

Promoting HFC Alternative Technology and Standards

Accelerating
Methane And BC
Reductions From
Oil And Natural
Gas Production

Reducing SLCP
Emissions from
Household
Cooking and
Domestic Heating

Financing
Mitigation of
SLCPS

Supporting
National Planning
for Action on
SLCPs (SNAP)

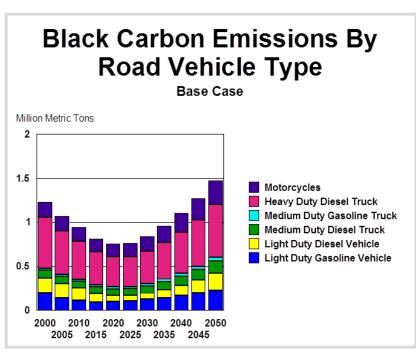
SLCPs Regional Assessments





- Nearly 1/5 of global BC emissions come from the transport sector, with a relatively large share coming from "super emitters", heavy duty diesel vehicles.
- CCAC objectives: Reduce BC/PM emissions within the freight transportation supply chain by engaging with the private sector; urban areas through the implementation of city action plans; and countries through the adoption of a range of measures for reducing sulphur in fuels and vehicle emissions.

Heavy Duty Diesel Vehicles and Engines



(Michael Walsh, 2010)



- Landfills are the 3rd largest source of global anthropogenic CH4 emissions and the practice of open garbage burning emits BC and other toxic compounds as well as GHG.
- CCAC Objectives: Reduce CH4
 and air pollution emissions
 across the MSW sector by
 convening and engaging key
 partners at the highest political
 levels and providing technical
 support and capacity building
 services to cities.

Municipal Solid Waste





Brick Production

- Brick kiln production is responsible for substantial air pollution in many developing country cities.
- CCAC objectives: Promote adoption of cleaner brick production technologies through technical assistance, cost-benefit analyses, awareness raising, capacity building and implementation of pilot projects.

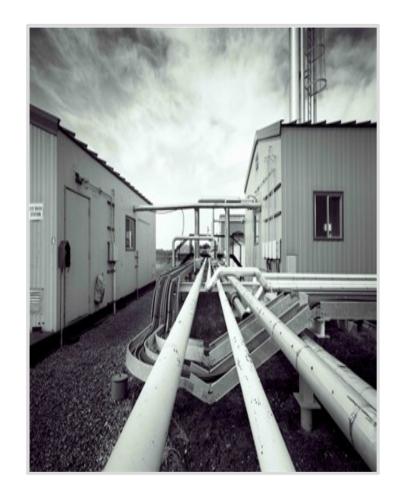






- The oil and gas sector accounts for more than 20% of all anthropogenic emissions of CH4 globally and is also a source of black carbon.
- CCAC objectives: Work with key companies and countries to design mechanisms and voluntary commitments to achieve substantial emission reductions from natural gas venting, leakage, and flaring.

Oil and Natural Gas Production





Recent study estimates that residential cooking and heating Household Cooking and Domestic Heating

- Recent study estimates that residential cooking and heating with sold fuels accounts for 20 % of the global BC emissions and latest burden of disease calculations show that there are over 3mn premature deaths due to indoor air pollution.
- CCAC objective: Create a highlevel advocacy force, support for new finance mechanisms, new research, and development of standards and testing protocols for improved cookstoves, heatstoves and fuels.





National Planning for Action on SLCPs

- Measures to mitigate SLCPs have been assessed at a global and regional level and now need to be incorporated into national policies and actions for large-scale implementation and impact.
- CCAC Objectives: Promote the integration of SLCPs into national planning frameworks and processes helping countries assess the scope of the SLCP issue, prioritize and mainstream policy options and measures and raising awareness.





Financing Mitigation of SLCPs

- Multiple means of financing SLCP mitigation already exist but are not translating into highenough levels of financial flows.
- CCAC Objectives: Work with governments, the private sector, donors, financial institutions, expert groups and investors' networks to address current knowledge gaps, barriers to financing of SLCP mitigation and identify existing and potential avenues and mechanisms to bolster financial flows toward SLCP reduction activities at the national and international scales.





Regional Assessments of SLCPs

- Need to ensure that action on SLCPs is underpinned by a robust up-to-date assessment of relevant science.
- CCAC objective: Provide targeted scientific information needed by undertaking strategic assessments to support national planning and action and to accelerate and scale-up SLCP reductions.





CCAC Priorities 2013

- Increase broad based partnership in the CCAC
- Mainstream SLCP mitigation action in the health, agriculture and development communities
- Increase funding for SLCP mitigation including through MDBs, GEF and other sources
- Scale up the CCAC initiatives and deliver first results
- Promote, capture and learn from meaningful action of all Partner countries and institutions

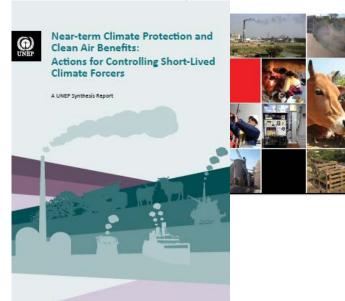




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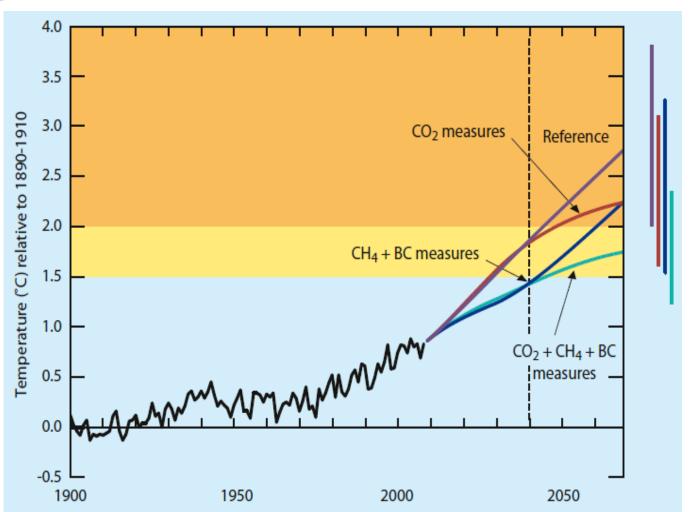




Background Slides



Complementing CO2 actions



SLCP actions need to be complemented by deep and rapid cuts in CO₂ emissions if global mean temperature increase over the 21st Century is to be held below 2°C



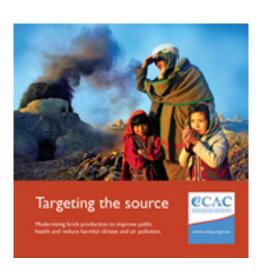
Imperative for action

Health – SLCPs affect human health

- Household air pollution 3.5 million premature deaths annually
- Ambient outdoor particulate 3.2 million premature deaths annually

Agriculture – SLCPs affect ecosystems

 Global annual yield losses due to ground level ozone exposure: 7-12% for wheat; 6-16% for soybean; 3-4% for rice; and 3-5% for maize



Climate – SLCPs contribute to near term global and regional climate change

- •SLCPs are responsible for a substantial fraction of the climate forcing experienced to date
- •HFCs emissions are currently small but could rise to levels with an impact equal to nearly 20% of global CO₂ emissions by 2050
- •BC and O3 disturb rainfall and regional circulation patterns
- •BC darkens snow and ice, exacerbating melting



CCAC Governance

High Level Assembly

High Level meeting of the Partners

Working Group

Oversees the activities of the Coalition

Steering Committee

 Oversight support and recommendations to the Working Group and High Level Assembly

Scientific Advisory Panel

 Keep abreast of changes in knowledge, respond to targeted questions, and inform policy discussions

Secretariat

- Oversee and coordinate overall action, supports Partners and supports development and monitoring of initiatives
- Hosted by UNEP in Paris, also manages the Coalition Trust Fund