

Canada's continued engagement to reduce Short-Lived Climate Pollutants

Delivering on the Paris Agreement

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Canada at COP 21

- Expanded Canadian delegation which included
 - Provincial and Territorial Leaders, National Aboriginal Organizations, Business and Industry, Academia & Youth, Opposition leaders and government critics.
- Canada played an active role throughout.
 - Minister highly engaged in all aspects of the negotiations. Ex: facilitated negotiations on a key article of the agreement (Article 6 on cooperative approaches)
 - Recognition of the necessity of transitioning to a low-carbon, climate resilient economy with expression of support for climate resilient development and adaptation in countries that need it.
- Canada joined many international initiatives including:
 - Carbon Pricing Leadership Coalition
 - Mission Innovation
 - African Renewable Energy Initiative
 - Global Alliance for Building and Construction

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Canada's new Climate Finance Package

- Canada announced a \$2.65B contribution between 2015 and 2020 in support of climate change action in developing countries.
- During COP, Canada announced \$275M of investment:
 - \$35M to combat Short lived climate pollutants, including \$10M to the Climate and Clean Air Coalition (CCAC)
 - **\$150M** to the G7 African Renewable Energy Initiative
 - **\$50M** to the G7 Initiative of Climate Risk Insurance
 - \$30M to support adaptation through the Least Developed Countries Fund (LDCF)
 - \$10M to the World Meteorological Organization to support Early Warning Systems in vulnerable communities.
- In addition, Canada committed \$300M to the Green Climate Fund as part of this pledge.



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Canada and Short Lived Climate Pollutants

- Canada recognizes that:
 - Short Lived Climate Pollutants (SLCPs) are responsible for a substantial portion of near-term climate change
 - the importance of reducing SLCPs as part of a comprehensive strategy to address climate change - complementary and supplementary to efforts to reduce CO₂ through the UNFCCC.
- And internationally, Canada recognizes the importance of supporting developing countries to reduce SLCP emissions through:
 - Capacity building
 - Strategic and technical expertise where appropriate
 - Financial support for mitigation





The Climate and Clean Air Coalition (CCAC)

- For example, Canada is playing a leadership role in the CCAC:
 - Co-founder and recently appointed co-chair of the Coalition
 - Top contributor to the CCAC Trust Fund with a \$23M investment between 2012 and 2020
 - active in the development and implementation of sector-specific initiatives to reduce SLCPs including:

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- Heavy Duty Diesel Vehicles and Engines
- Municipal solid waste
- ✤ Agriculture
- HFCs
- Oil and gas production

- (co-led by Canada)
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- (co-led by Canada)
- (co-led by Canada)

(One component led by Canada)





Example of Canada's Leadership: Oil and Gas

Project Focus:

- Deployment of emerging technologies to reduce venting and flaring by recovering readily condensable and valuable natural gas liquids.
- This pilot directly derives from the development of an Oil and Gas NAMA supported by Canada - in both countries and will serve as a model for replication and scale-up.

Geographical scope:

Mexico and Colombia

Budget:

• US\$1M for 2014-15







Completed Activities

- Specific technology demonstration projects to reduce or eliminate the venting and fugitive leakage of natural gas (mainly CH4) and black carbon emissions.
- Measurement, mapping and monitoring to identify economic opportunities to reduce SLCP emissions as well as to develop policy tools.
- Development of a single communication portal to share information on tools, emerging technologies, best practices and approaches.



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Final results for Mexico

• SLCP reduction opportunities identified in :

• <u>4 refineries:</u>

- o 0.6 kt of BC emissions reduction
- 1.3 Mt of CO2e emissions reduction annually
- US\$237 million in gross savings

<u>1 oil terminal</u>

- o 0.2 kt of BC emissions reduction
- 405.3 kt of CO2e emissions reduction annually
- o US\$71.4 million in gross savings,

<u>1 oil battery</u>

- o 0.013 kt of BC emissions
- o 31.2 kt of CO2e emissions reduction), annua
- o US\$4.8 million in gross saving

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Canada

Final results for Mexico

Measured SLCP reductions:

- <u>1 Flare</u>
 - o Reduction of 0.13 kt of BC annually
 - Reduction of 318kt CO2e annually
 - Reduction of 6050 kt CO2e lifetime
 - Saving of US\$ 50.4M annually
 - o ROI: 4 months





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Replication and scale-up

- Based on the initial results in Mexico, similar projects using the same approach, are being and implemented financed by other partners by private sector partners in:
 - China
 - Nigeria
 - Norway
 - Ecuador
- Other jurisdictions are currently exploring opportunities to implement similar work in:
 - Cameroon
 - Ghana

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Other sector- based projects underway

Through the CCAC, Canada is actively leading project in:

- <u>Municipal Solid Waste</u>
 - Bio-digestor pilot projects
 - Vina del Mar (Chile)
 - Atlacomulco (Mexico)
- Diesel
 - Smart Freight program (Mexico)
 - Sulphur content in diesel (Chile)





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Muchas Gracias!

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