

CLEAN AIR TASK FORCE: Introduction and Goals in CLRTAP

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CATF Mission and History

We are a US-based NGO, founded in 1996

- Dedicated to restoring clean air and healthy environments through scientific research, public education, and legal advocacy
- Solely working on atmospheric issues
- Funded by foundations and individuals



CATF Mission and History

Evolving focus:

- Continuing focus, from beginning, on power plants
 - Early focus on SO_{2} , NOx, Hg reductions
- Climate protection is now a major focus
- Diverse approaches: Legal & policy advocacy, Technology commercialization, Filling information gaps



Calling Attention to Short-Lived Forcers

- CO₂ is the most important agent of climate change and must be addressed quickly
- Due to the long lifetime of CO₂ already emitted, and continued reductions of sulfate, we face steeply rising warming in the next decades. CO₂ mitigation cannot address this
- It is essential to mitigate short-lived forcers to address near-term steep warming



Raes & Seinfeld, 2009



CATF in CLRTAP

- CATF has actively worked for reductions in SO₂, NO_x, and PM, particularly from power plants and heavy-duty diesel engines
- We have been active in many international air pollution / climate fora over the last decade:

Saltsjöbaden meetings leading to TF-HTAP and on air pollution / climate links; Stockholm Env. Inst. / GAP forum meeting on air pollution / climate links; Gothenburg meeting Oct. 2009

• We have participated in TF-HTAP for several years. Our main focus is on the co-benefits to climate, human health, and the environment that may be realized through the reduction of global emissions of short-lived climate forcers

- BC, CH₄, and O₃ precursors

• CATF is also active in efforts at IMO to reduce shipping emissions of air pollutants and climate agents



Our Perspective for TFIAM

Significant co-benefits exist across efforts to clean up air pollution and mitigate climate change, but the policy world has not mobilized around these opportunities.

Modeling efforts need to quantify these opportunities



Examples of Co-Benefit / Modeling Needs

- Ozone Precursors:
 - CH₄ and CO in regional AQ models are typically treated as global (unchangeable) pollutants.
 Models need to support assessments of how global CH₄ / CO reduction would lower O₃ regionally / locally
 - Conversely, RF calculations from reductions in O₃ precursors will show climate co-benefit from mitigation motivated by air quality concerns



Examples of Co-Benefit / Modeling Needs

- Aerosol:
 - Various PM have various radiative effects, but need to be separately tracked to quantify (BC vs sulfate, nitrate, etc.)
 - Effects of gas-phase pollutants including CH₄ & CO on OH and then PM production (Shindell et al.)