

Transportation and Climate Change



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Reducing GHGs and Fostering Resilient Economic Development

Avoiding the most severe impacts of global climate change will require deep reductions in GHG emissions from all economic sectors. Transportation GHG emissions are a result of three key factors— vehicle efficiency, fuel carbon intensity and travel activity (vehicle kilometers traveled). Vigorous progress on all three fronts is critical for climate protection, to increase resilience to rising oil prices and to sustain our economy and communities.

CCAP has been a leader in transportation and climate change policy for 15 years. We have conducted research and advised policy makers around the world on mitigation of GHG emissions from passenger and freight vehicles as well as on increasing the resilience of transportation systems to climate change impacts. Our technical, economic and policy analysis has addressed vehicles, fuels and travel demand. We have focused in particular on assessing the performance of "smart growth" and transit oriented development (TOD) to reduce GHGs from urban transportation and increase economic competitiveness.

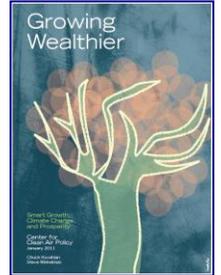
CCAP is a thought leader in the measurement and evaluation of transportation GHG reduction policies and measures, striving to develop practical and effective MRV systems, and has been a strong advocate for improving travel and land use data.

Our most recent efforts have focused on developing transformative national policies and catalytic local pilot projects, such as the Colombia TOD NAMA. To ensure that comprehensive plans don't just sit on the shelf, we practice "strategic opportunism" to **catalyze implementation** by:

- **Gauging political momentum** -- priorities of government, business and community leaders;
- **Researching** best practices, barriers and implementation opportunities;
- **Evaluating** social, economic and environmental benefits of GHG mitigation measures;
- **Making the economic case** for climate policy solutions;
- **Cultivating champions** active in policy leadership and investment;
- **Advancing financial leverage opportunities** public, private, international;
- **Developing action plans** for implementation, policy and research;
- **Fostering public-private collaboration** on policy design and implementation; and
- **Transferring knowledge** to propagate best practices and foster replication.

Selected CCAP Transportation and Climate Change Efforts and Publications

Smart Growth and Transit Oriented Development



- **Growing Wealthier: Smart Growth, Climate Change, & Prosperity**
[Growing Wealthier](#) brought economics to the forefront of the smart growth debate. The study presents evidence on how smart growth principles can improve the bottom line for businesses, households and governments by increasing property values, cutting fuel and infrastructure costs and enhancing public health. (Supported by the Kresge, Rockefeller and Surdna Foundations.)
- **Colombia TOD NAMA**
CCAP brought together national, local and private sector leaders in transportation, housing, environment, urban development and finance to craft a comprehensive policy framework and implementation plan on transit-oriented development. We developed a successful NAMA proposal with our Colombian partners for international climate finance to shift how and where public and private investments are made to increase environmental, economic and social returns. (Supported by governments of Germany, Denmark and Canada.)

Measurement and Evaluation

- **Data and Capacity Needs for Transportation NAMAs**
 - 1) Data Availability, 2) Data Selection, 3) Capacity-Building Needs
- **MRV for NAMAs: Tracking Progress while Promoting Sustainable Development**
- **MRV of NAMAs: Guidance for Selecting Sustainable Development Indicators**

Transportation GHG Reduction

- The **CCAP Transportation Emissions Guidebook** includes tools for quantifying GHG savings from 40 transportation policies and measures, including feebates, biofuels, smart growth, pricing and freight.
- **Transportation and GHG Emissions Trading**

Climate Adaptation

- **Climate Adaptation and Transportation: Identifying Information and Assistance Needs**
- **Green Resilience: Climate Adaptation + Mitigation Synergies**
- **Ask the Climate Question: Adapting to Climate Change Impacts in Urban Regions**

Since 1985, CCAP has been a recognized world leader in climate and air quality policy. Headquartered in Washington, D.C., CCAP helps policymakers around the world to develop, promote and implement innovative, market-based solutions to major climate, air quality and energy problems that balance both environmental and economic interests.

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