



# CLEAN AIR ASIA

CHINA OFFICE





**Clean Air Asia (CAA) is an international nonprofit non-governmental organization (NGO) leading the regional mission for better air quality and healthier, more livable cities throughout Asia.**

## **ABOUT US**

Established in 2001, CAA is headquartered in Manila (Philippines) and has offices in Beijing (China) and Delhi (India). CAA has also built a cooperation network involving six Asian countries: Indonesia, Malaysia, Nepal, the Philippines, Sri Lanka, and Viet Nam.

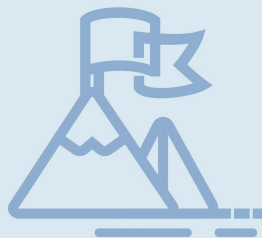
Since 2002, our work in China has been focused on air quality management, mobile source management, and energy transition. CAA was officially registered as a foreign NGO in China on 12 March 2018, with the professional supervisory unit being the Ministry of Ecology and Environment.

# **China Advisory Committee of CAA**

<b>HE Kebin</b>	<b>Academician, Chinese Academy of Engineering</b> <b>Dean, Institute for Carbon Neutrality, Tsinghua University</b> <b>Professor, School of Environment, Tsinghua University</b>
<b>WANG Jinnan</b>	<b>Academician, Chinese Academy of Engineering</b> <b>President, Chinese Academy for Environmental Planning,</b> <b>Ministry of Ecology and Environment</b>
<b>ZHU Tong</b>	<b>Academician, Chinese Academy of Sciences</b> <b>Professor, College of Environmental Sciences and Engineering, Peking University</b>
<b>XU Honglei</b>	<b>Deputy Director, Planning and Research Institute, Ministry of Transport</b> <b>Deputy Director, Heilongjiang Provincial Department of Transportation</b>
<b>DING Yan</b>	<b>Director, Key Laboratory of Motor Vehicle Pollution Control and Simulation for</b> <b>National Environmental Protection</b>
<b>WANG Zhixuan</b>	<b>Deputy Director, Expert Committee of China Electricity Council</b> <b>Dean, Institute for New Energy Systems and Carbon Neutrality,</b> <b>North China Electric Power University</b>
<b>JIANG Kejun</b>	<b>Professor, The Hong Kong University of Science and Technology (Guangzhou)</b>

# Vision

A world with clean air, blue skies,  
and a stabilized climate for people and the planet.

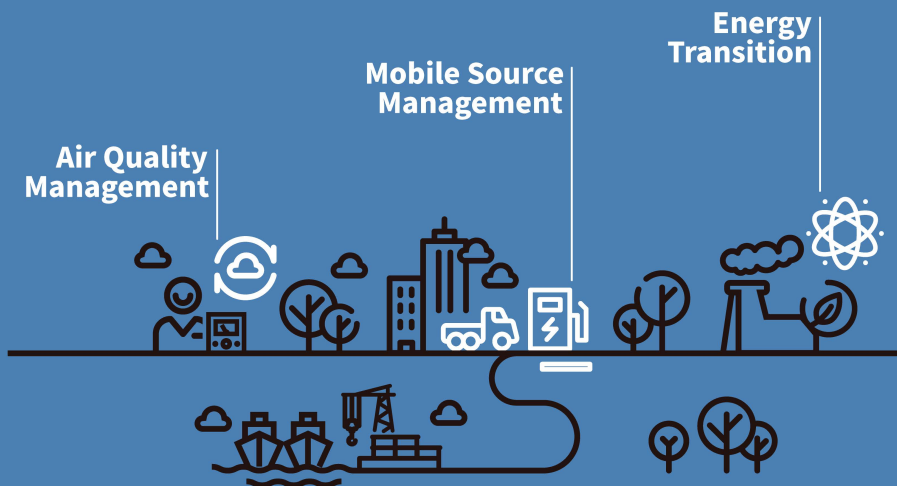


# Mission



Our mission is to reduce air pollution and greenhouse gas emissions in Asia and contribute to the development of a more sustainable, equitable, and healthier region. We empower governments and cities by inspiring action and focusing efforts on the planning and implementation of solutions at scale, fostering regional cooperation to address issues of mutual concern and ensuring the integration of air quality management across sectors and institutions.

# Our Field Of Work





# Air Quality Management

Since its establishment in 2002, CAA has cultivated extensive expertise in the field of air quality management (AQM). CAA closely tracks the progress of air pollution control policies and measures in China and shares leading domestic and international practices. Through these efforts, CAA provides scientific support to national and local environmental authorities, advancing more precise and effective pollution control.

## Research on Ambient Air Quality Standards

CAA has conducted phased policy research on the ambient air quality standards system and its implementation in China. The first phase, completed in 2020, systematically reviewed practices and experiences from the EU, the United States, and leading Asian countries, and compared them with China's current standards to identify areas for improvement and lessons learned. In 2024, the second phase was launched in collaboration with research teams from Tsinghua University and Peking University. This phase focuses on scenario-based attainment roadmap analysis, co-benefits of CO<sub>2</sub> emission reduction, and economic assessments to provide scientific support for the ongoing revision of China's ambient air quality standards.



## Health Impact Assessment of Air Quality Improvement

Since 2022, CAA has supported the AiR-Climate-Health (ARCH) research team from Peking University in developing the *Health Impact Assessment of Air Quality Improvement in China* report series. These reports quantitatively assess the health benefits of air quality improvement, aiming to provide scientific evidence for policymaking and policy evaluation, while helping the public better understand the health benefits of national air pollution control efforts under the “dual carbon” (carbon peaking and carbon neutrality) goals. The research has gained strong recognition among both professionals and the general public, and the findings were presented as key evidence at the WHO Global Conference on Air Pollution and Health, showcasing China's achievements and experience in air pollution control on the global stage.





## China Air Report Series

Since 2015, CAA has been publishing yearly issues of the report series *China Air: Air Pollution Prevention and Control Progress in Chinese Cities*, providing objective and systematic analysis of air quality trends and policy implementation progress at national, regional, and city levels. The report series also conducts a comprehensive assessment and ranking of AQM in 168 key cities, evaluating both the efforts made and the results achieved in tackling air pollution, thereby encouraging cities to continue improving air quality. In addition to the annual review, CAA also releases special editions of the *China Air* report, which focus on milestone achievements in China's efforts to improve air quality and mitigate climate change. These editions aim to synthesize best practices, promote international knowledge exchange, and provide references for developing Asian countries facing similar environmental challenges.

The *China Air* reports have attracted attention from municipal environmental authorities and have been widely disseminated through influential conferences and media platforms, significantly enhancing public engagement in air pollution control efforts and supporting the international community's understanding of China's progress and achievements in air quality improvement.



## Research on Clean and Low-Carbon Energy Transition in China

From 2018 to 2022, CAA supported Beijing University of Chemical Technology and relevant industry associations in conducting systematic research on the clean heating in northern China. The research team analyzed technological pathways for replacing scattered coal with cleaner alternatives, assessed the application potential of biomass heating, and identified key challenges and enabling mechanisms in the promotion process. The findings have provided valuable insights for policymaking and the sustainable development of clean heating in rural areas.

Since 2023, CAA has been observing the implementation progress of key pollution reduction and carbon mitigation policies in China's power sector, systematically reviewing its development, achievements, and challenges. The goal is to support China's power sector transformation and offer insights for energy transitions in other Asian developing countries.





# Mobile Source Management

Since 2008, CAA has been committed to promoting the clean transition of mobile sources in China. Our work includes initiatives such as the China Green Freight Initiative, jointly launched with the China Road Transport Association and other partners.

Since 2018, CAA has focused on critical issues including “clean diesel engines” and “green freight”, with particular attention to emission reductions and low-carbon transitions for trucks and non-road mobile machinery. By promoting the exchange and dissemination of leading emission control models and emission reduction technologies for mobile sources, CAA has supported the adoption of green, low-carbon responsibilities among industry stakeholders and contributed to the broader clean transition of mobile sources.

## Research on Pollution Reduction and Carbon Mitigation in the Trucking Industry

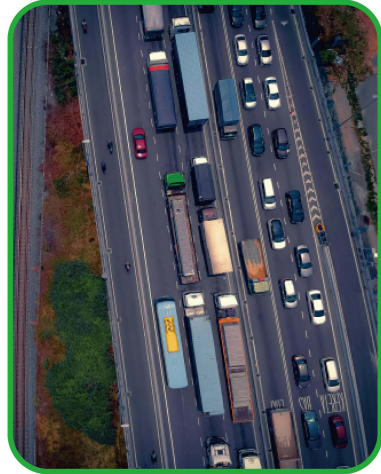


Since 2020, CAA has collaborated with the School of Environment at Tsinghua University and the National Big Data Alliance of New Energy Vehicles to publish the *Green Truck Ranking* report series. These reports, from an independent third-party perspective, evaluate the progress and effectiveness of major policy measures related to diesel truck pollution control, including upgraded emission standards for new vehicles, the phase-out of high-emission trucks, in-use vehicle supervision, fuel quality improvements, and vehicle electrification. From an industry perspective, the *Green Truck Ranking* encourages truck manufacturers to benchmark their performance in energy efficiency, pollution control, and energy transition. It also serves as practical guidance for users in vehicle purchase and operation. These efforts help identify effective practices and existing gaps in the green transition and offer targeted recommendations for stakeholders across the sector.



## Leading Case Studies on Mobile Source Pollution Control

In 2024, CAA released the research report *Tackling the Challenge: Urban Practices in Diesel Truck Pollution Control*, highlighting city-level practices in addressing diesel emissions. The report reviews city-level targets, progress, and effective management frameworks for diesel truck pollution control, with a focus on the promotion of new energy and clean energy vehicles. It showcases innovative practices and successful experiences in policy incentives, technological advancement, and business models from both domestic and international cities. By identifying common challenges in promoting cleaner transport, the report provides valuable insights for Asian cities seeking to reduce transport-related emissions and accelerate their clean energy transition.

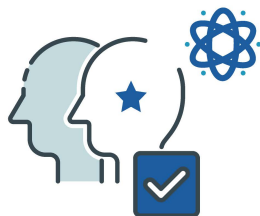


## Green Freight Industry Workshops

Since 2020, CAA has regularly convened Green Freight Industry Workshops, serving as a platform for communication and partnership across the freight sector. These events bring together commercial vehicle manufacturers, freight operators, cargo owners and other stakeholders along the value chain, fostering dialogue between upstream and downstream enterprises. The workshops contribute significantly to the collective exploration of green development pathways and the advancement of a low-carbon, high-quality freight sector.







# Capacity Building

CAA is committed to supporting local governance and strengthening multi-stakeholder collaboration through capacity building, with the goal of driving continuous improvement in air quality. Through systematic training programs and workshops, CAA fosters and deepens exchanges and experience sharing among local environmental authorities, research institutions, and environmental organizations.

## AQM Workshops and Training for Chinese Cities

Since beginning its work in China, CAA has responded to the practical needs of AQM for Chinese cities by regularly organizing thematic workshops and training sessions focused on key challenges. These events invite representatives from the Ministry of Ecology and Environment (MEE), local environmental management departments, technical support agencies, and domestic and international experts to share advanced concepts and governance practices. To date, over 40 such workshops and exchanges have been held, providing robust support for enhancing local AQM capabilities and building regional cooperative governance frameworks.



## Leadership Program for Clean Air and Decarbonization



青云力计划

Leadership Program  
for Clean Air and Decarbonization

Launched in 2022, the Leadership Program for Clean Air and Decarbonization aims to strengthen the comprehensive capacity of local environmental organizations in the co-governance of air pollution and climate change. CAA, in partnership with the Foreign Environmental Cooperation Center (FECO) of the MEE, the School of Environment at Tsinghua University, the SEE Foundation, and other collaborators, has developed training modules covering pollution and carbon reduction policies, scientific knowledge, and project design and evaluation. The program has supported more than 20 local environmental organizations in implementing more effective actions, making a positive contribution to improving China's air quality and achieving the "dual carbon" goals.

# Asian Regional Exchanges for Clean Air



CAA actively collaborates with international organizations, including the United Nations Environment Programme (UNEP), United Nations Development Programme (UNDP), and the Asian Development Bank (ADB) to promote in-depth cooperation among Asian countries in experience sharing and technology exchange, aiming to build forward-looking regional collaborative governance mechanisms.

## Better Air Quality Conference

Since 2002, CAA has convened the biennial Better Air Quality Conference (BAQ), which has become the most comprehensive and influential international event on air quality in Asia. The conference centers on core issues of AQM, including emission reduction strategies in key sectors such as transport, energy, and industry; the co-governance of air quality improvement and climate change mitigation; and the links between environmental quality and public health. The BAQ has been co-hosted with prominent international organizations, including ADB and the Climate and Clean Air Coalition (CCAC), and each edition attracts hundreds of participants from government agencies, research institutions, private sector, and civil society organizations across East, Southeast, and South Asia, as well as from Europe and America.

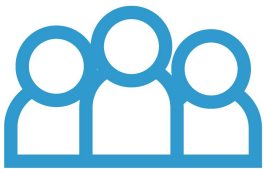


## Regional Exchange and Cooperation

CAA has established a regional exchange and cooperation network with partners from China, Indonesia, Vietnam, Thailand, Mongolia, the Philippines, and other countries. Focusing on air pollution control and co-governance of air pollution and climate change, the network regularly facilitates knowledge exchange, research sharing, and joint studies. Supported by FECO, Vehicle Emission Control Center of Chinese Research Academy of Environmental Sciences, Peking University, Tsinghua University, Fudan University, and others, CAA has organized numerous China–Southeast Asia exchange activities. These include expert delegations from China visiting Indonesia, Vietnam, and the Philippines to share air governance experience, and technical personnel from Southeast Asia participating in study visits and workshops in China. This has significantly advanced in-depth regional cooperation on AQM and co-governance.



# Public Advocacy



CAA is dedicated to raising public awareness of air pollution and climate change, promoting scientifically grounded protective measures, helping the public safeguard health in various environments and scenarios, and encouraging proactive public participation to support air pollution control and climate mitigation.

## +Blue Campaign Handbook



+Blue  
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WeChat | TianLanAction

Weibo | @添蓝PlusBlue

Launched in 2019, the +Blue Campaign uses social media platforms to share engaging, accessible knowledge on AQM and climate change. In partnership with the Center for Environmental Education and Communications of MEE, Peking University, and others, the project has developed targeted guidance for vulnerable groups such as women, children, and outdoor sports enthusiasts. It has been featured and cited by mainstream media, including CCTV News Channel. On key occasions such as International Day of Clean Air for Blue Skies, the project collaborates with public figures and environmental experts to raise societal attention to air quality and climate issues, with annual Weibo topic reached several million views.





# PUBLICATIONS

## CHINA AIR: AIR POLLUTION PREVENTION AND CONTROL PROGRESS IN CHINESE CITIES ANNUAL REPORTS



## AIR QUALITY MANAGEMENT



## MOBILE SOURCE MANAGEMENT



## CONTACT US

**ADD:** 3-41, JianGuoMenWai  
Diplomatic Residence  
Compound, No.1 Xiushui Street,  
Chaoyang District, Beijing,  
Postal Code: 100600

**TEL / FAX:** +86-10-8532-6172

**Email:** [china@cleanairasia.org](mailto:china@cleanairasia.org)

**WEBSITE:** [www.cleanairasia.cn](http://www.cleanairasia.cn)  
[www.cleanairasia.org](http://www.cleanairasia.org)



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