

Clean Air Catalyst



CLEAN AIR CATALYST JAKARTA

A GLOBAL PARTNERSHIP FOR ACCELERATING CLEAN AIR AND CLIMATE SOLUTIONS

As a result of the doubling of its economy over the past decade, Jakarta's transportation and industrial sectors are growing rapidly, and so are its bad air days. According to the 2022 State of Global Air report, Jakarta is among the top ten most polluted cities in the world. Fine particulate matter has been found to be on average six times higher than safe limits set by the World Health Organization. A deeper understanding of what is driving the city's air pollution and what to do about it is needed to deliver clean air for all of Jakarta's residents.

ABOUT THE CLEAN AIR CATALYST

Clean Air Catalyst (Catalyst) is a global partnership supported by the U.S. Agency for International Development and led by World Resources Institute and Environmental Defense Fund, Inc. Launched in 2020, it is focused on building capacity for locally tailored solutions that curb air pollution, tackle climate change, and improve human health. Other Catalyst partner organizations are Columbia Climate School Clean Air Toolbox for Cities, Climate and Clean Air Coalition, Internews, MAP-AQ, Open AQ and Vital Strategies. The Catalyst has projects on the ground in Indore, India; Jakarta, Indonesia; and Nairobi, Kenya.

AT A GLANCE

Air pollution levels consistently exceed World Health Organization and Indonesia limits for fine particulate air pollution (PM_{2.5}), nitrogen oxide (NO₂), ozone (O₃) and sulfur dioxide (SO₂)¹

Residents lose on average 5.5 years of life expectancy due to air pollution exposure²

Transport and industrial combustion contribute more than 80% of all PM_{2.5} emissions³

Sources:

1 Emission inventory of pollutants (CO, SO₂, PM_{2.5}, and NO_x) in Jakarta Indonesia.

2 Environmental Agency of Jakarta; Air Quality Life Index; Lestari, P., Damayanti, S., & Arrohman, M. K. (2020).

3 IOP Conference Series: Earth and Environmental Science 489 (May): 12014.

THE CLEAN AIR CATALYST APPROACH

Our unique data-to-action methodology combines three key innovations:



Source Awareness

Build a clear, commonly-held understanding of local contributors to air pollution among stakeholders and impacted communities



Solutions Co-Design

Identify data-driven strategies to address the root causes of pollution from priority sources



Cross-cutting Objectives

Form partnerships to advance solutions that maximize health, climate and gender equity benefits

PROJECT ACTIVITY HIGHLIGHTS IN JAKARTA

Science and solutions

- Strengthen Jakarta's local government air quality monitoring networks by adding black carbon monitoring, in order to measure short-lived climate pollutants.
- Install continuous ambient air quality monitoring stations in three locations: West and East Jakarta, and the Pelindo Seaport Office Building
- Support the Environmental Agency of Jakarta in implementing an air quality data management platform and air monitoring plan across a wider section of city
- Undertake research on potential solutions in the transport sector, prioritize a short list of actions and build a solutions coalition around the most impactful interventions

Engagement

- Consult with more than 200 stakeholders, including public health, climate and civil society representatives, to evaluate and prioritize sources of air pollution in the city, and identify what other data and research is needed to get to solutions
- Organize multiple trainings and awareness raising events connecting public health, air quality and chronic disease with the Health Agency of DKI Jakarta, the Center for Indonesian Medical Students' Activities (CIMSA) and other medical organizations and hospital staff
- Organize media training workshops for journalists, with field visits to communities most impacted by air pollution
- Conduct research, interviews and focus groups to understand where Jakarta residents get their air pollution information, and what they understand are the sources of pollution

PROGRAM PARTNERS

Clean Air Catalyst

A partnership of:



For more information about Clean Air Catalyst Jakarta, contact Fadhli Zakiy at fadhli.zakiy@wri.org.