



# QUICK WIN PROJECT – COIMBATORE AMBIENT AIR QUALITY MONITORING STATION (AAQMS)

## About Coimbatore

Coimbatore is the second largest city in Tamil Nadu, situated on the banks of the river Noyyal surrounded by the Western Ghats. Often referred to as the Manchester of South India, it is one of the fastest growing cities in India and is a major hub for textiles, industries, commerce, education, information technology, healthcare, and manufacturing.

## CapaCITIES Project

Cities account for approximately two-thirds of global energy use and over 70 percent of energy-related greenhouse gas (GHG) emissions that drive global climate change. In India, increased demand for energy, infrastructure and services is putting city systems under pressure. This will be accentuated further by growing risks caused by climate variability. Poor and vulnerable segments of the city populations will be affected most. Through the Capacity Building for Low Carbon and Climate Resilient City Development project (CapaCITIES), SDC's Global Programme Climate Change will support and accelerate the Government of India's efforts for sustainable urbanization.

## Sensor based AAQMS

The public transport fleet of more than 900 diesel buses (public and private) and the increasing vehicle population in the city contribute to the usually observed moderate air quality in Coimbatore. More than 70000 vehicles were registered in the year 2015-16. Based on figures that were estimated in the GHG emissions inventory, prepared under the CapaCITIES project for 2015-16, the transport sector in Coimbatore consumes 60% of total energy consumption in the city, corresponding to 43% of economy wide GHG emissions. Therefore it is important for the City to continuously monitor air quality and consider corrective measures to ensure good air quality at all times.

The City, with support from the Capacities project, decided to monitor air quality at 4 locations in the city.

- CCMC Town Hall
- East Zone office
- West Zone office and
- Master Service Reservoir Office on Sathy Road

A digital display board that continuously reports data from all the 4 sensors has been installed at the Town hall of Coimbatore City Municipal Corporation.



## GHG Emission Reduction / Adaptation Impact

This information can be used to make knowledgeable decisions about traffic and transport planning in the city. This planning will help to reduce the GHG emissions. More importantly, the data can be interpreted to assess the impacts of observed air pollution levels on the health of citizens and mitigative measures can be appropriately proposed.



## Beneficiaries

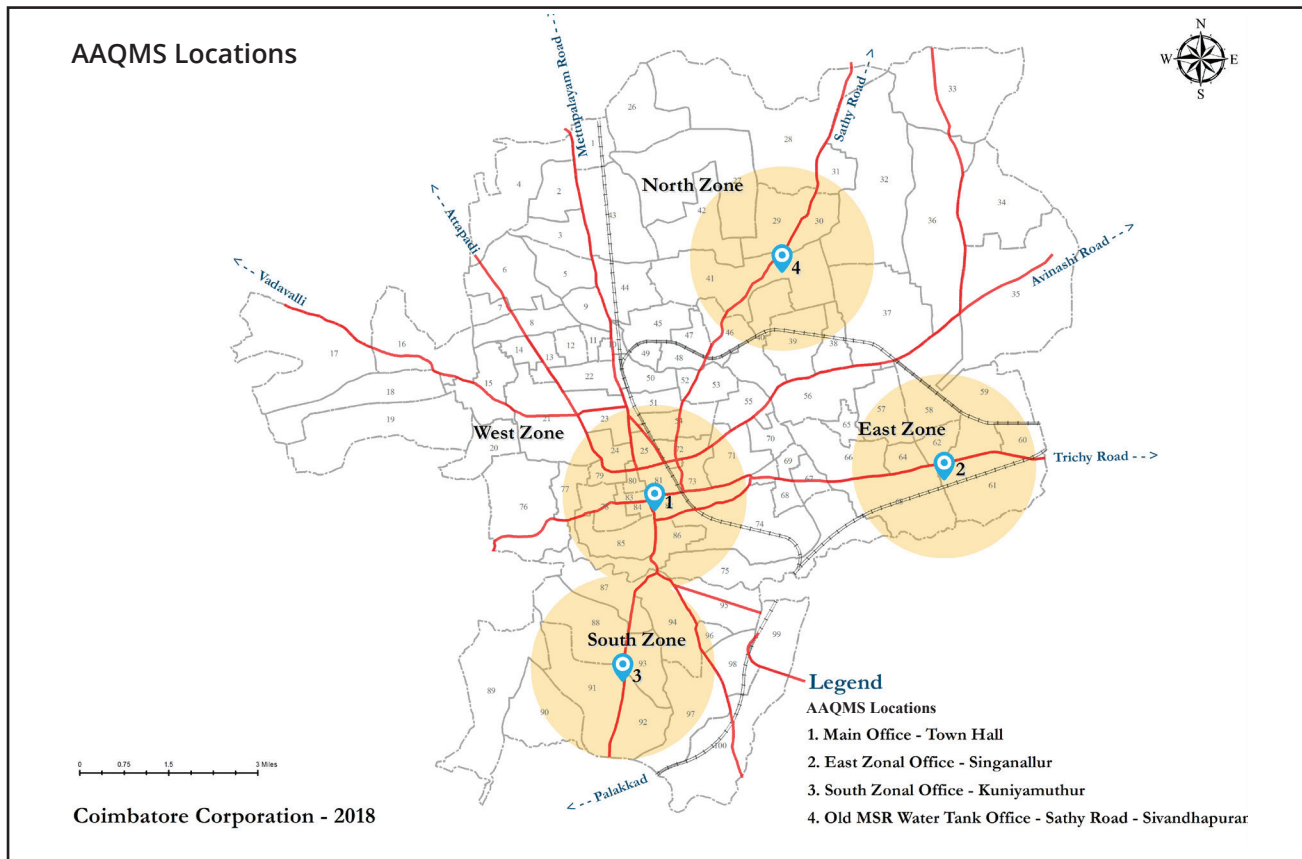
Project beneficiaries include Coimbatore City Municipal Corporation, Public Works Department (Government of Tamil Nadu), Tamil Nadu State Transport Corporation (Government of Tamil Nadu), Department of Public Health (Government of Tamil Nadu) Department of Transport (Government of Tamil Nadu) and the citizens of Coimbatore.

## Potential for Replication

The command and control center proposed under the Smart Cities mission can be used to aggregate the information from the different sensors and relay it to the concerned officials to take suitable decisions.

## Project Investment

The total project investment was CHF 47'500



For more information, please contact:

ICLEI- Local Governments for Sustainability, South Asia  
 C-3 Lower Ground Floor, Green Park Extension, New Delhi 110 016, Tel: +91-11-4974 7200, Fax: +91-11-4974 7201  
 Email: iclei-southasia@iclei.org, Coimbatore Contact: +91-8940504004