

Local Government Climate Roadmap

Strong and
Comprehensive
Post-2012 Global
Climate Agreement

Copenhagen 2009
UNFCCC COP 15

Poznan 2008
UNFCCC COP 14

Bali 2007
UNFCCC COP 13

LOCAL ACTION FOR CLIMATE PROTECTION AND ADAPTATION – A SERIES OF LOCAL STORIES

Bogor, Indonesia

Integrated climate plan improves local mitigation action

STORY IN SHORT: Integrated climate action is amongst the prioritized programs of the Municipal Government of Bogor. A range of adaptation and mitigation efforts have been undertaken in various sectors causing environmental problems and contributing to the carbon emissions in the city. These sectors are transportation, waste management, reforestation and energy efficiency.

Integrated local climate action

The past actions addressing climate change in Bogor were not coordinated under an integrated strategy. Over the last years, the municipal government has encouraged cross-sectoral coordination in order to harmonize the different actions and measures addressing climate change, particularly mitigation measures.

As a first step the Municipal Government of Bogor passed a resolution on 14 February 2003 to reduce emissions and to increase energy efficiency. More precisely, it includes an emission reduction target of 5% for the community sector and 10% for the corporate sector by 2010. Building on this, businesspeople, industrial actors, and the municipal government issued a common declaration calling for a 5% reduction of greenhouse gas emissions by 2010.

To achieve this emissions reduction and to effectively combat climate change, the municipal government has taken numerous mitigation actions concerning transportation, energy, waste management and forestation (see next page).



Reducing traffic in the city quarters Sebelum (left) and Sesudah (right)

Bogor's challenge: Rapid urbanisation leads to increasing emissions

In last four years the population of Bogor Municipality has increased by up to 19%. This has created several challenges for the city. Firstly, there have been massive land use changes. Secondly, greenhouse gas emissions are increasing quickly. In 2006 emissions stood at 828,416 tons, but already increased to 1,112,046 tons in 2007 – in only one year! Thirdly, there is a significant increase in the amount of motor cycles and four wheeled vehicles resulting in traffic jams and air pollution. Finally, waste management and ensuring clean water supply has become difficult.

Mitigation actions in transportation, ...

The first measure in the transportation sector was switching vehicles used in the public transportation fleet from vehicles carrying 11 passengers to minibuses with a capacity of 35 passengers, thus increasing fuel efficiency and reducing emissions by up to 52%. Additionally, the use of alternative fuels such as biodiesel, a mixture of diesel and used cooking oil, was introduced for public transportation and government owned trucks. Bogor has begun making plans for the use of gas for inner-city transportation. The last transportation measure taken so far is a modification of public transportation routes and terminals, which is expected to result in fuel savings of 259,200 liters/year.

energy, ...

In the field of energy savings and efficiency, three measures have been introduced so far. Firstly, the municipal government circulated a letter regarding power utilization within local government buildings. Secondly, there was a joint declaration by business and industrial actors on energy saving in 2008. This has been continuously monitored and audited by the state-owned electricity company. Finally, traffic lights in some parts of Bogor City were replaced by modern LEDs.

...waste management and forestation

To improve waste management, four schemes were launched. The first aims to make compost for domestic and regional scales. The second has developed communal septic tanks in three villages. The methane gas produced is channeled to daily fuel needs. Another scheme deals with developing biogas from cattle waste. The fourth scheme sees Bogor putting up CDM-based (TPA) landfills management for public auction. To augment forestation, a large number of trees and bushes were planted on lands measuring 260 hectares between 2004 and 2008.

Adaptation measures

Water supply has been a major problem in Bogor. In order to manage it the government has taken big steps, such as developing some 1900 infiltration wells between 2004 and 2008 and making 45000 bio-pores up to 2008.

Involvement in international climate initiatives

Bogor Municipality participated in ICLEI's Cities for Climate Protection (CCP) Campaign from 2001 – 2004. The city has ratified the World Mayors and Local Government Climate Protection Agreement, which calls for a number of actions, including the reduction of greenhouse gas emissions by 60% from 1990 levels worldwide (www.globalclimateagreement.org). Bogor is also involved in strengthening national-local partnerships for the post-2012 Climate Change Agreement.



Bogor is located 54 km South of Jakarta

City profile & contacts

Bogor was founded in the 15th century and is one of Indonesia's historical cities. Its vision is to be a Providing Service City (Kota Jasa). Its current population is about 850,000 individuals. Bogor lies only about 54 km from Jakarta, Indonesia's Capital City, so that Bogor has become a desirable residence for many commuters. The rate of population growth in last few years was 18.75%.

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The local stories are produced by ICLEI – Local Governments for Sustainability in cooperation with the cities described. They shall enrich the knowledge on local action as contribution to the Local Government Climate Roadmap, a joint activity of local government associations and networks towards COP 15.

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