



Developing and Emission Inventory and a Clean Air Plan: The Case of Metro Baguio City

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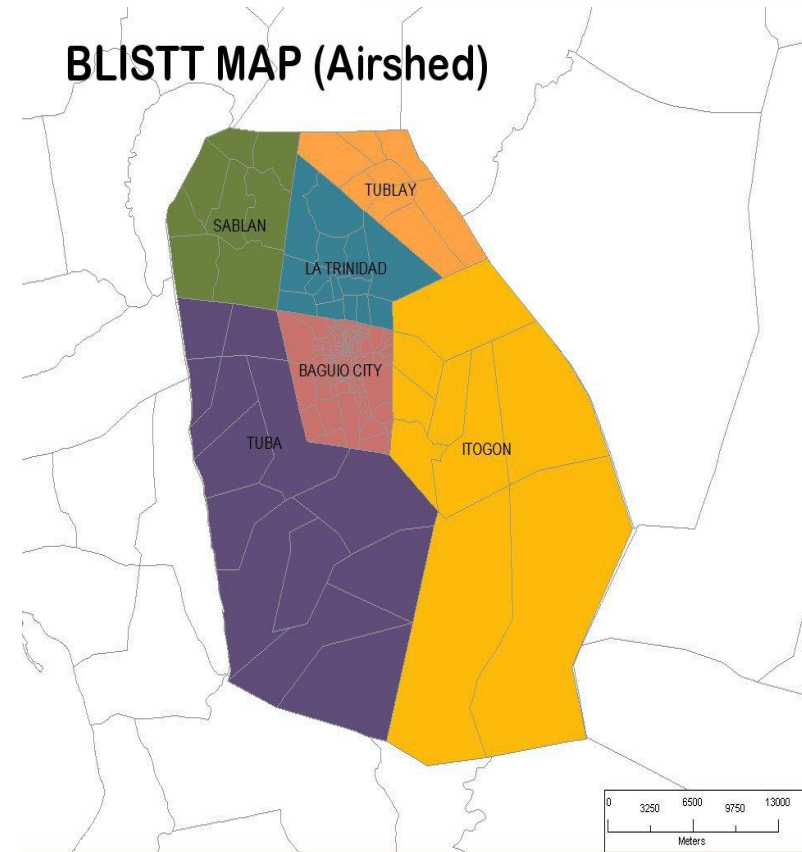


Environmental Management Bureau
Cordillera Administrative Region

Overview



- Ours is a tiny mountain resort town with a big reputation.
- Baguio City is gifted with a variety of cultural, historical and scenic attractions that make it an important and interesting destination.
- Loved by local and foreign tourists, whole families on vacation, honeymoon couples and large convention groups.
- Boasting great natural beauty, chilly weather, a tourist friendly people and extraordinary vistas, the City of Pines is the culmination of your search for the idyllic escape from the tropical heat of the Philippine lowlands
- Highly urbanized city with a population of 420,000 approximately however it was built for about 25,000 residents thus making it more congested for a small land area



Status of Air Quality



The air quality specifically at Km. 0, Central Business District, Baguio City exceeded the air quality guideline which is 60 ug/NCM.

Interventions were made by LGU Baguio through implementation of Number Coding for vehicles and Four (4) Anti Smoke Belching Units (ASBU) or the Roadside Inspection and Testing Monitoring Team (RITMT)

DENR Guideline Values

- 35 $\mu\text{g}/\text{m}^3$ – annual air quality guideline value for PM^{-2.5}
- 60 $\mu\text{g}/\text{m}^3$ – annual air quality guideline value for PM⁻¹⁰

Ambient Air Quality Monitoring Stations (AAQMS)

Roadside Level Manual Ambient
Air Monitoring Station, Lower
Session Road, Baguio City
measuring PM⁻¹⁰



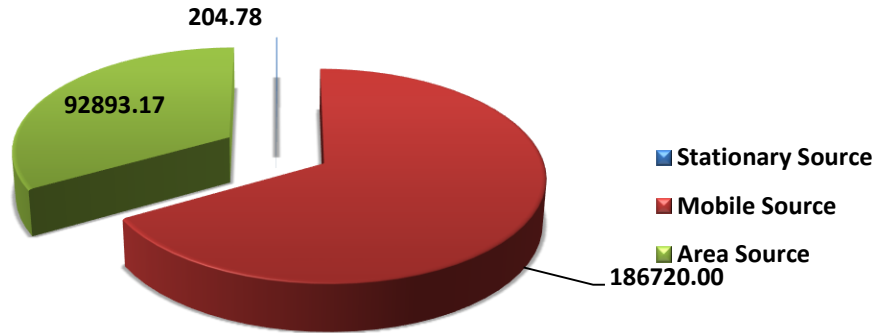
General Ambient Particulate
Monitoring Station, Burnham
Park, Baguio City, installed May
2014 (PM10, PM 2.5)



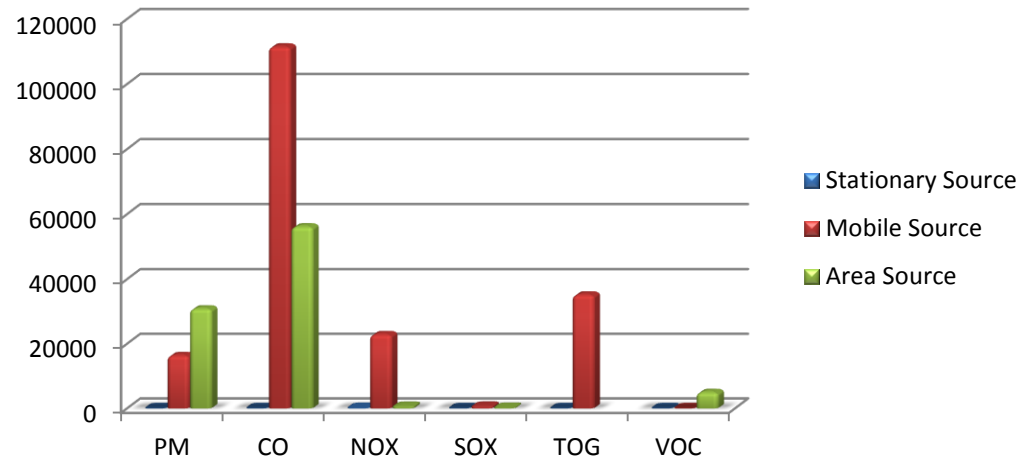
Emission Inventory 2013-2015



By Source



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Clean Air Plan Strategy



- Mobile Sources
 - Intensify smoke belching apprehensions, engine retrofiting, adoption of jeepney reduction program
 - Number coding scheme, improve public transport, encourage pedestrianization, share a road
- Area Sources
 - Awareness raising campaign, introduce safe cooking practices & cook stoves
- Stationary Sources
 - Close monitoring, make them partners in abating air pollution

Other Achievements



- Health Impact Studies conducted by UPBaguio
 - The Cost of Illness of Exposure to Elevated Levels of Air Pollution (PM10)
 - Cost-Benefit Analysis of the Investment and Operation of an Automated Guideway Transit (AGT) System in Baguio Central Business District
- Strategic Planning for Transport and Traffic Management for the City of Baguio

Enhanced Community Involvement: Vital to Good Air Quality



- Use mass transport; or walk if you can
(pedestrianization concept; bike; others)
- Comply with local ordinances
(No Smoking Zones; Coding; No open burning, etc);
- Recycle; plant trees (National Greening Program, etc)
- Join environmental events/advocacies (Envt Month)
- Support environmental programs (Adopt-an-Estero)
- Watch chemicals you use in homes and offices
- Be vigilant; help the government.



Thank you

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