



A presentation by:

Attorney Leticia O. Clemente

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"Asia-Pacific Regional Approach to
Climate Friendly and Climate Change-resilient Society"
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Outline of Presentation

- 1. Brief Profile of the City
- 2. Environmental Situation
- 3. The Integration Process of Climate Change in Local Governance
 - Development Vision
 - Environmental Policy Framework
 - The Cities for Climate
 Protection Campaign of
 ICLEI
 - Environment Sector Plan

- 4. Implementation
- 5. Barriers and Challenges
- 6. Lessons Learned

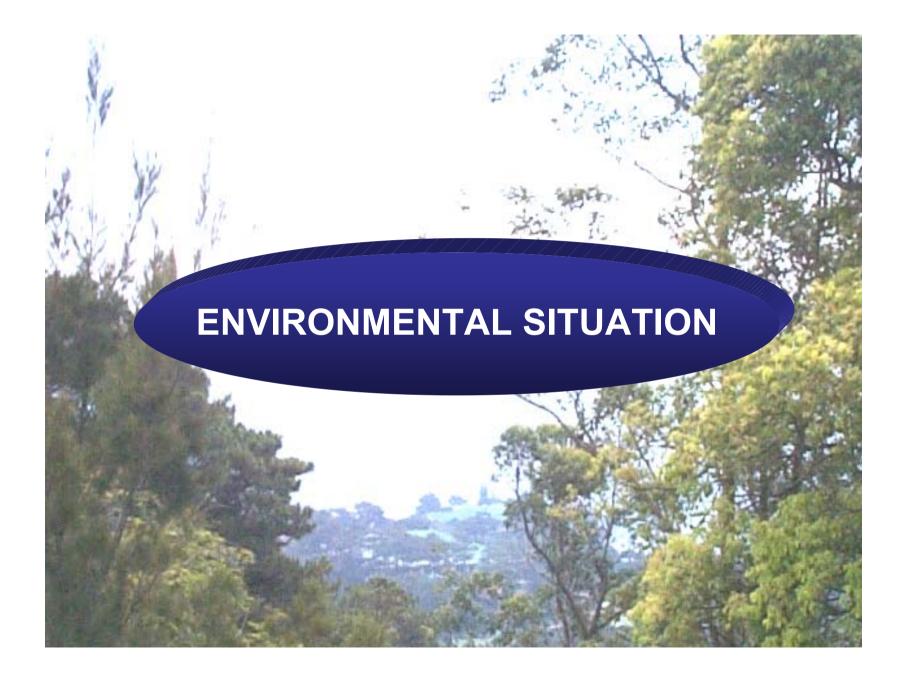






Baguiotcity

- 1,500 meters above sea level
- mean normal temperature of 18°C
- tourist, educational, and economic growth center of the Cordillera Administrative Region (CAR),in northern island of Luzon in the Philippines
- home to more than 270,000 residents.

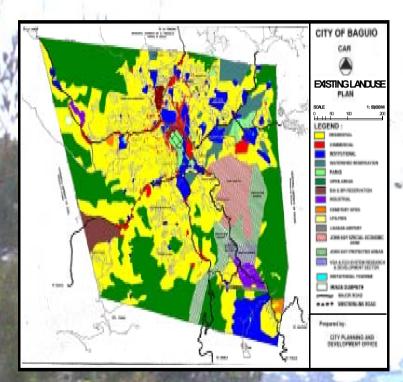


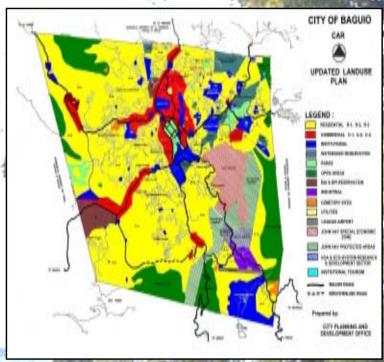


DEMOGRAPHIC ANALYSIS



POPULATION DENSITY





2005 Population: 280,756

Residential Area: 1,760.96 Hectares

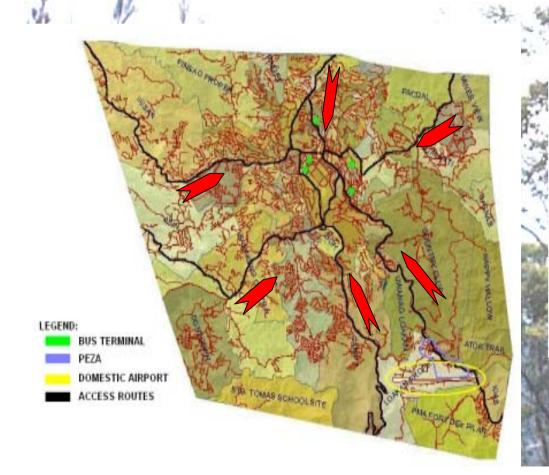
Density per Hectare: 159.43

2008 Population : 299,286

Residential Area: 2,784.76 Hectares

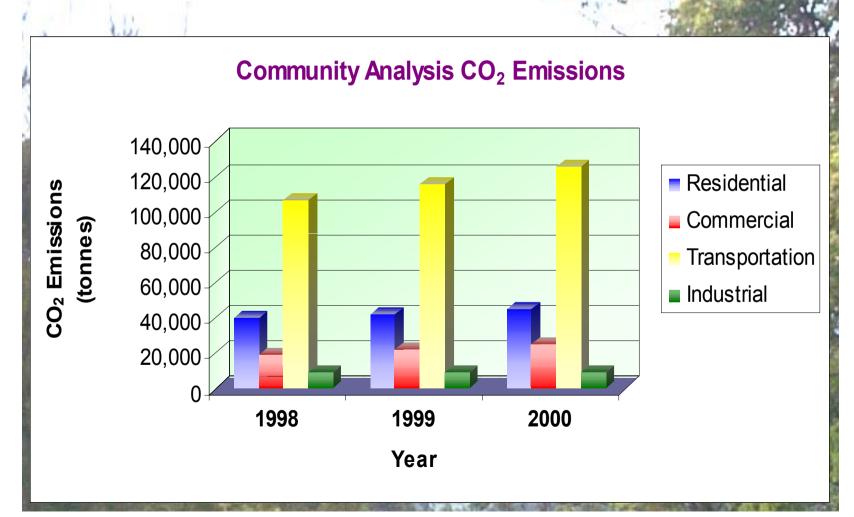
Density per Hectare: 107.72

Accessibility and Road Network



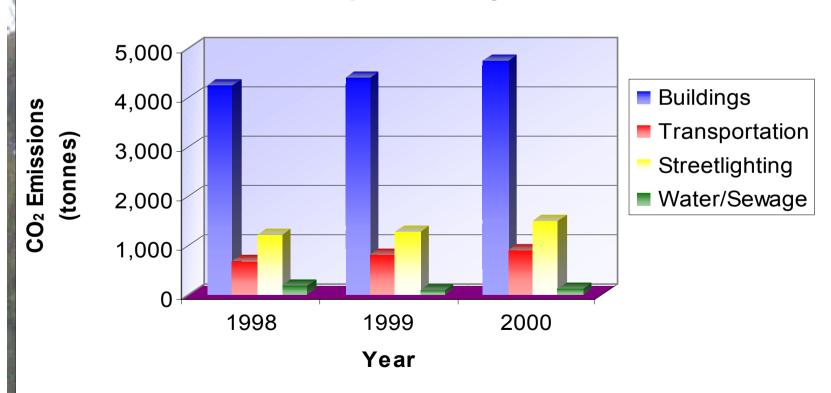
The City has a radial road network. All traffic converges at the CBD (7.1 km. road length)

CO2 Emissions



CO2 Emissions

Corporate Analysis



Comparative Summary of GHG Emission in the City

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12 1 V VIII .	1998	1999	2000	2010			
Residential	40,539	41,871	45,055	101,094			
Commercial	19,428	22,257	25,504	85,694			
Industrial	9,498	9,224	9,008	6,911			
Transportation	106,898	116,094	126,097	290,134			
TOTAL COMMUNITY	176,363	189,446	205,663	483,834			
		4.00	1	The state of the state of			
	1998	1999	2000	2010			
Buildings	4,258	4,402	4,764	8,399			
Transportation	688	801	922	3,304			
Streetlighting	1,233	1,289	1,511	93,249			
Water and Sewage	178	95	134	61			
TOTAL CORPORATE	6,357	6,587	7,331	105,012			
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Baguio Total 182,720		196,033	212,994	588,845			
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Registered Motor Vehicles

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AGENCY		TOTAL						
	CARS	UTILITY V	SUV	TRUCKS	BUSES	MC/TC	TRAILERS	
Baguio City	7,792	13,385	318	965	89	681	6	23,236
La Trinidad	1,508	6,683	106	1,666	196	178	6	10,343
TOTAL	9,300	20,068	424	2,631	285	859	12	33,579

Data Source: DOTC-LTO Management Report for January-November 2005.

motor vehicle population grows at a rate of 12.5% per year, the number of vehicles is doubling every 5.75 years

Integration Process of Climate Change in Local Governance

DEVELOPMENT VISION

"We want a progressive, peaceful and healthy environment for Baguio - A center for education, trade and family-oriented tourism - managed by God-loving and strong-willed leaders in partnership with self-reliant and disciplined citizenry."

Baguio City Environment Policy

The City Government of Baguio, mandated to sustain its city as an eco-cultural tourist destination and nature city, commits to sustainable,

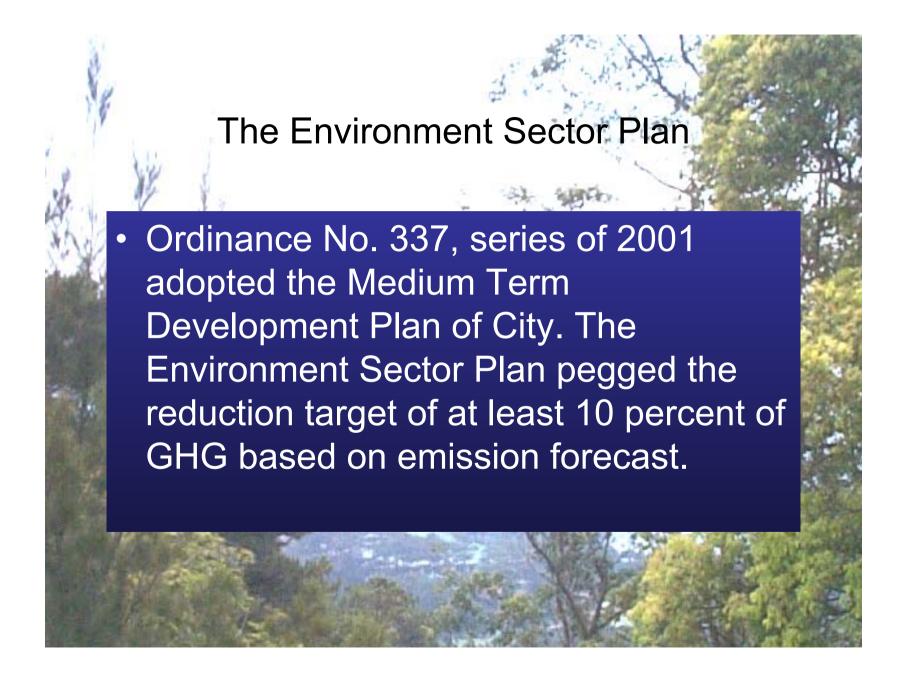
- Growth and conservation and preservation of its natural resources
- Prevention of air, land and water pollution, and
- Compliance with relevant environmental regulations and requirements

To provide the framework, the City Government of Baguio shall undertake the following:

- •Formulation, enactment and implementation of relevant environmental legislations and regulations
- •Encourage people's active participation to attain sustainable development
- •Promotion and use of environment-friendly, appropriate and cost effective technologies
- •Incorporation of best environmental practices in the promotion of investment and development of livelihood projects; and
- •Enhancement of safe and healthy working environment

ICLEI'S Cities for Climate Protection Campaign

- Baguio participated in the campaign in 1999 and have undertaken the 5 milestone process.
- The campaign works with local governments to:
- 1. Understand how local actions and practices contribute to the emissions that cause air pollution and global warming
- 2. It strengthen local capacity to develop plans and implement actions to cut local emissions; and
- 3. Network participating cities share best practices that improve urban management and address economic, environmental and social concerns.







Local Policies Adopted on Climate Change vis-a-vis Clean Air

- Adopted the 5 E's in Traffic Management (Engineering, Education, Enactment, Enforcement and Environment)
- Ordinance 051-2001 Comprehensive Land Use Plan, approved by the HLRB, Dec. 17, 2003
- Adopted the energy policy formulated by the ASEAN EC Energy Management Training and Research Center as the energy policy of the City of Baguio
- Res. 061-99 adopting the guidelines for a modern solid waste disposal system
- Compliance to the Clean Air Act and Solid Waste Management Act

Number Coding Scheme: A means to reduce traffic and GHG emissions



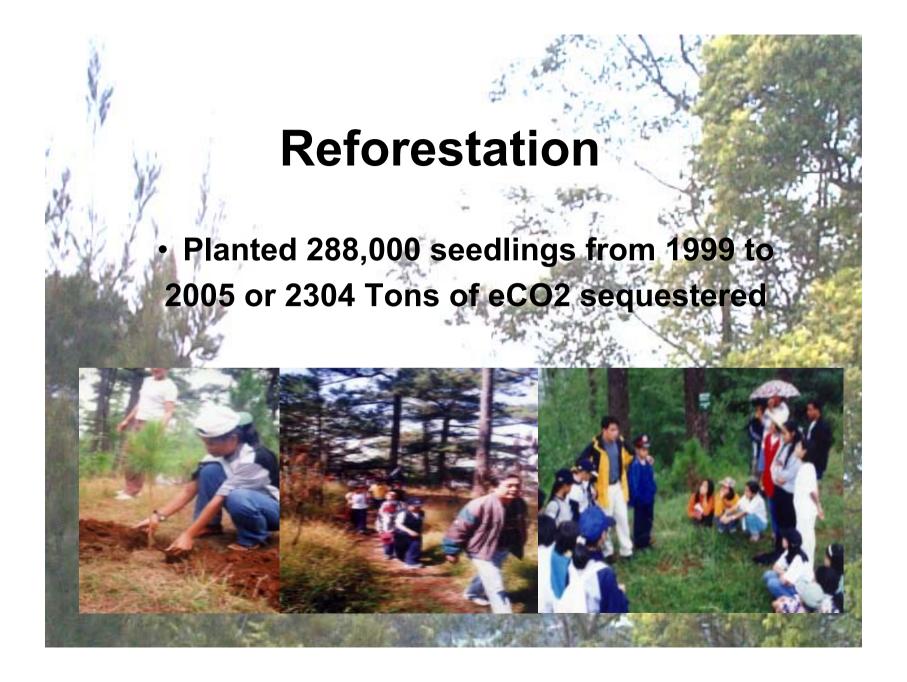
- 20% reduction of vehicles plying the City roads
- 20,229 tons of eCO2 or a reduction of 8.59 percent of the forecasted emissions
- Fuel and Fiscal Savings
 - Gasoline Fed 104 Ltrs. or \$43.40
 - Diesel Fed 104 Ltrs. Or \$33.80
 - Annual fuel savings of 8,007,792 and financial savings of \$2,815,671

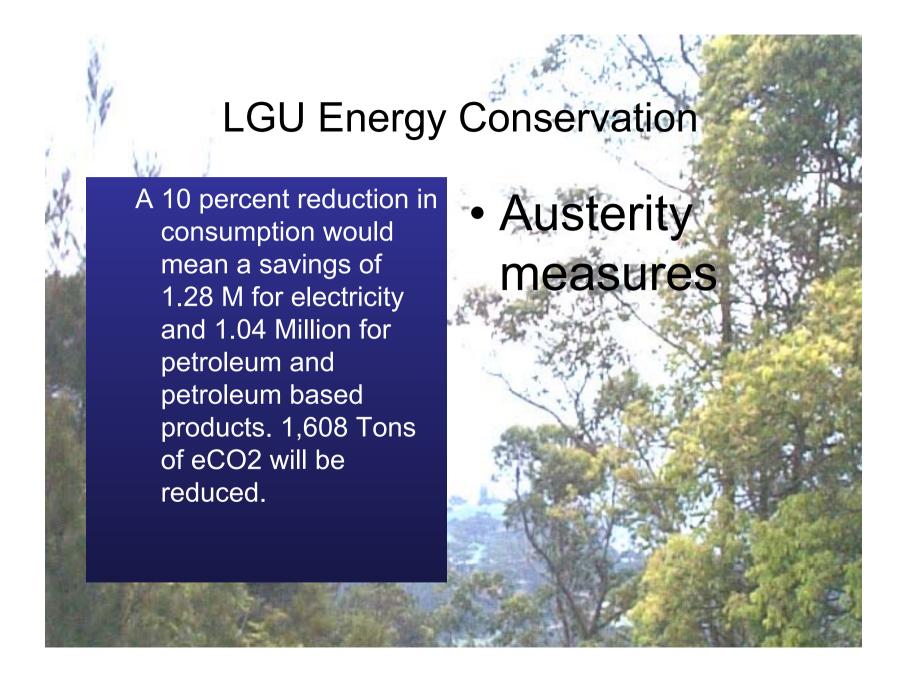
Materials Resource Recovery





- Green Charcoal Production
- 1.8 Tons/Mo. Reduction of garbage or 0.72 ton of CO2 reduction
- 1.8 tons production of Green charcoal equivalent to Php36,000/mo. Income
- Composting
- 30 MT/day or 28.49 Tons of eCO2 reduction
- Paper Banking (13 % of Total Solid Waste)
- 30.16 Tons or 28.64 tons of eCO2 reduction
- In Transit Waste Segregation
- 2.38 MT/day or 2.6 Ton of eCO2 reduction



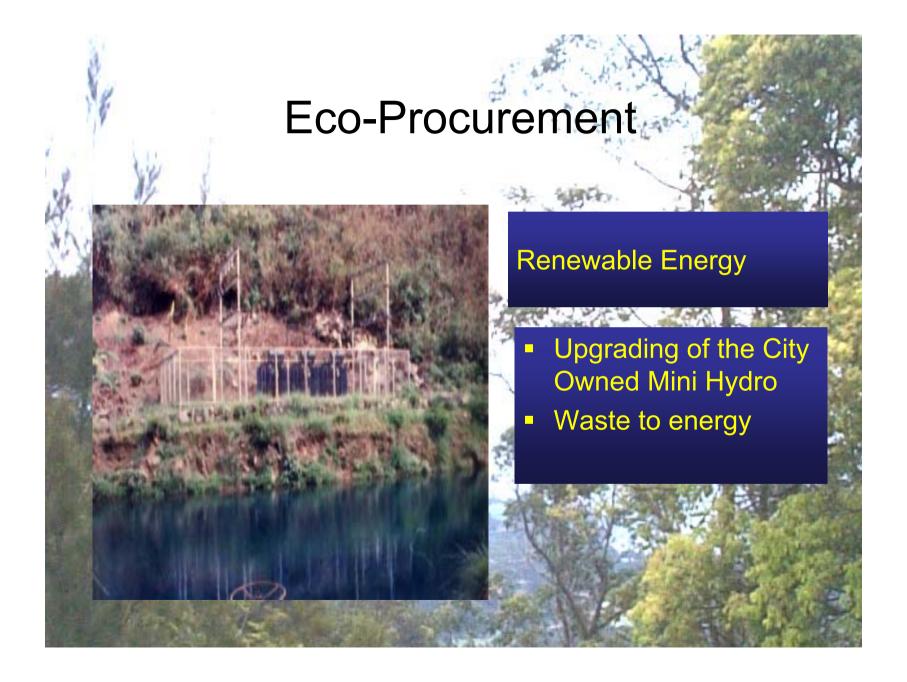




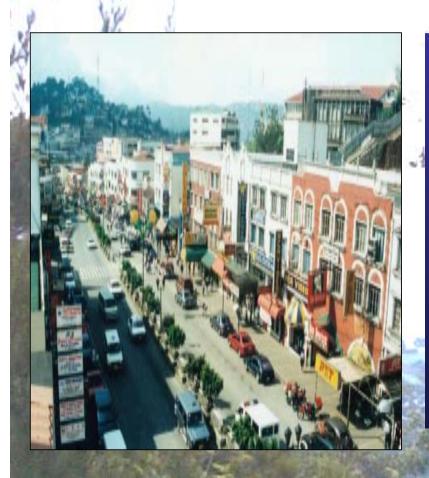
 Bio-gas Production at the City Abattoir will result to a methane capture of 613.795 tons of CH4 will result to 12,889.695 ton of eCO2

Solid Waste





Green Buildings/Green Template Design



- This is already embodied in the Land Use Plan of the City
- Landscaping of Roof Tops to increase CO2 sequestration within the CBD
- Integration of Energy Efficiency in Building Designs
- Provision for Rainwater Capture





Barriers and Conflicts

- Changing the mindset of people
- Political Climate plays a pivotal role in decision-making and is largely dependent on political affiliations and agenda
- Lack of incentives for community participation
- Lax implementation of the law by concerned national offices
- Inadequate capacity of local staff to deal with Climate change

Results – Developing Partnership

- Technical Support from ICLEI
- Acquired support in the Clean Air Campaign project.
- Acquired commitment of the 5 locators in PEZA, Academe, JODA's and NGO's

Impacts

- Generated concerted effort among City Gov't, business sector, civic groups in environment related activities.
- Capacitation and Livelihood Development
- Less exposure of the people to health hazards of pollution
- Improved air ambient quality
- Generated savings for the city

Lessons Learned

- Campaign contributed to the economic and social well being of the people
- Need for active partners in promoting clean air
- Comprehensive and relevant information is a key to better decision making at all levels of governance
- Evolving Program Champions
- Need for enhancing environmental management capabilities at the local level
- Need for enhancing information exchange
- Need for facilitating inter-LGU cooperation



