WALIKOTA BITUNG

MAXIMILIAAN J. LOMBAN Ir. MAURITS MANTIRI

Results of LCTI system in Bitung City

M.J. LOMBAN. MAYOR OF BITUNG CITY, **North Sulawesi**

The 1St LCMT Symposium Jakarta, 14 September 2017

Map of Bitung City



GENERAL DESCRIPTION OF BITUNG CITY

AREA

Located in the most east part of North Sulawesi province Area 313 Km²

BORDERS

North : Likupang Sub district, Regency of North

Minahasa and Moluccas Sea

East : Moluccas Sea

South : Moluccas Sea

West : Kauditan Sub District, North Minahasa

Regency



GENERAL DESCRIPTION OF BITUNG CITY

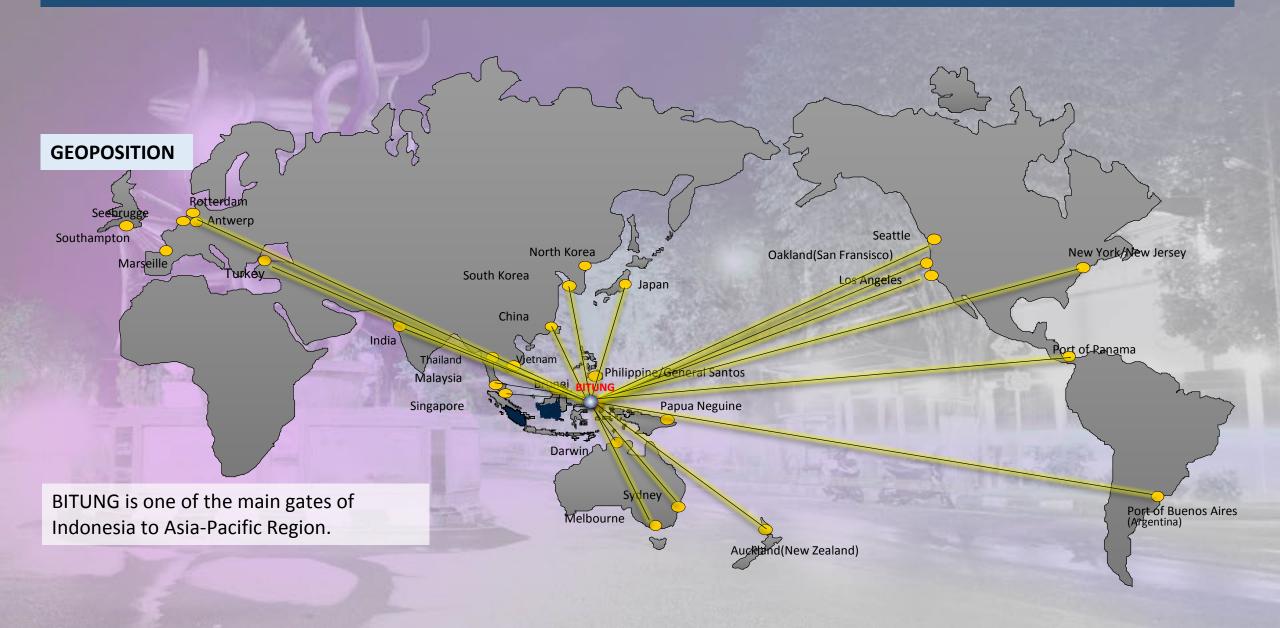
TOPOGRAPHY

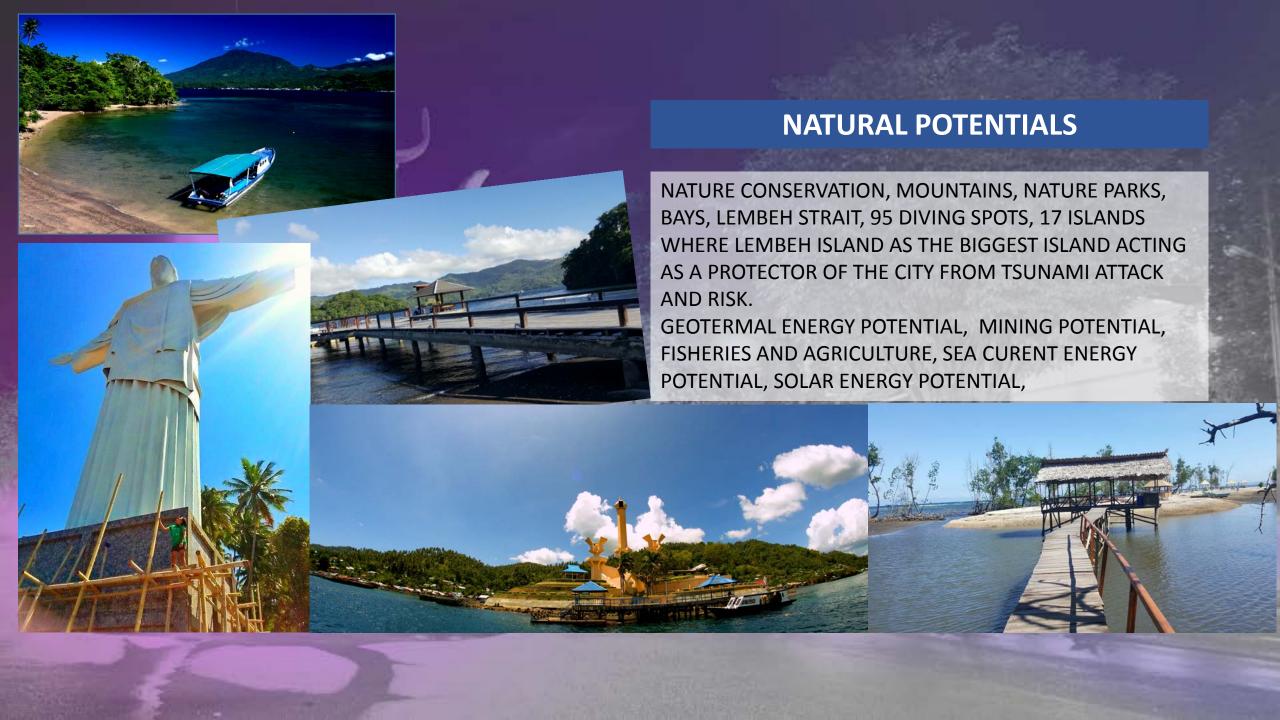
Hilly 45,06 % Mountainous 32,73 % Flat 4,18 % Wavy 18,03 %

AREAL DIVISION

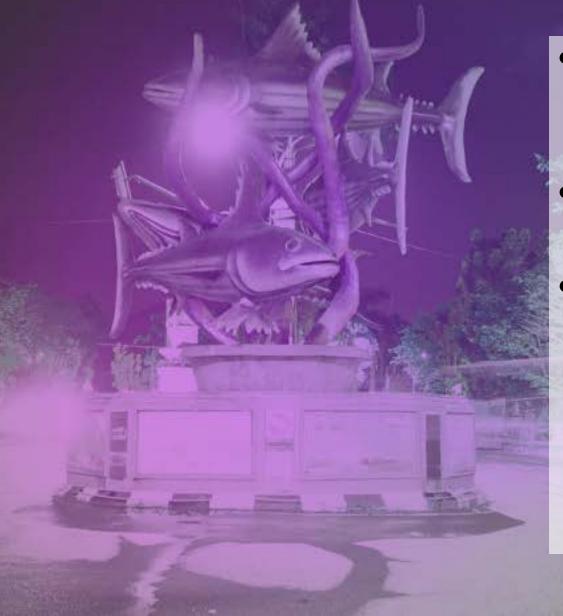
Area 31,350.35 ha
Conservation Area 13,378 ha (42.67%)
Consist of : Protected forests, reserves, nature conservation
and natural parks.
17,972 ha (57.33%) Farm.

Geoposition and geostrategic of Bitung





BITUNG AS A LOW CARBON CITY (background)

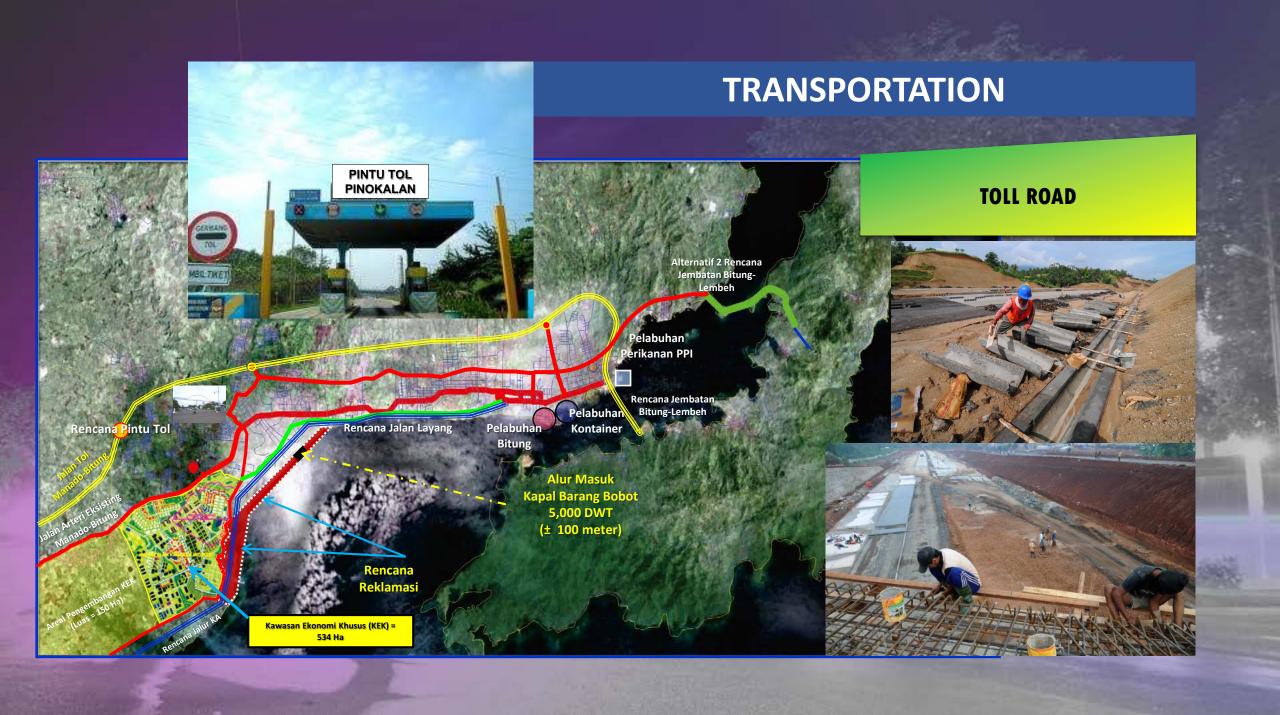


- Enactment of the Phase 5 LCMT focusing on an industrial area (SEZ) in Bitung city
- Special economic Zone (SEZ) designation in Bitung City
- Feasibility study implementation by South Pole



LOW CARBON MEASURES IN BITUNG

Impact	Side	Aspects	Measurement/indicators	Average Score /Stars
Directly related	Demand	 Town structure Buildings Transportation 	Urban management system of the city Numbers of building with green design Measurement of road length & quality	60
	Supply	4. Area energy system5. Untapped energy6. Renewable Energy7. Multi Energy System	Development of energy system Energy potentials Development of wind energy and solar	50
	Demand and supply	8. Energy management system		50
Indirectl y related	Environm ent and resource	9. Greenery10. Water Management11. Waste Management	CO2 measurement, 12 th Adipura award etc Water volume Sewage volume	80
	Governa nce	12. Policy Framework13. Education andManagement	An increase in budget Public education and go green campaign	80



THE ENVIRONMENTAL ASPECT - Greenery



Greenery: 12 times Adipura

Innovation in water management

Waste management : sanitation – public toilet provision, septic tank amnesty

RESOURCES ASPECT . Esp, Renewable energy

Wind, Solar, Geothermal, Sea Current, biogas

Esp. Wind Energy is developed in eight villages in two sub districts at the level of principal permit issued capacity 30W

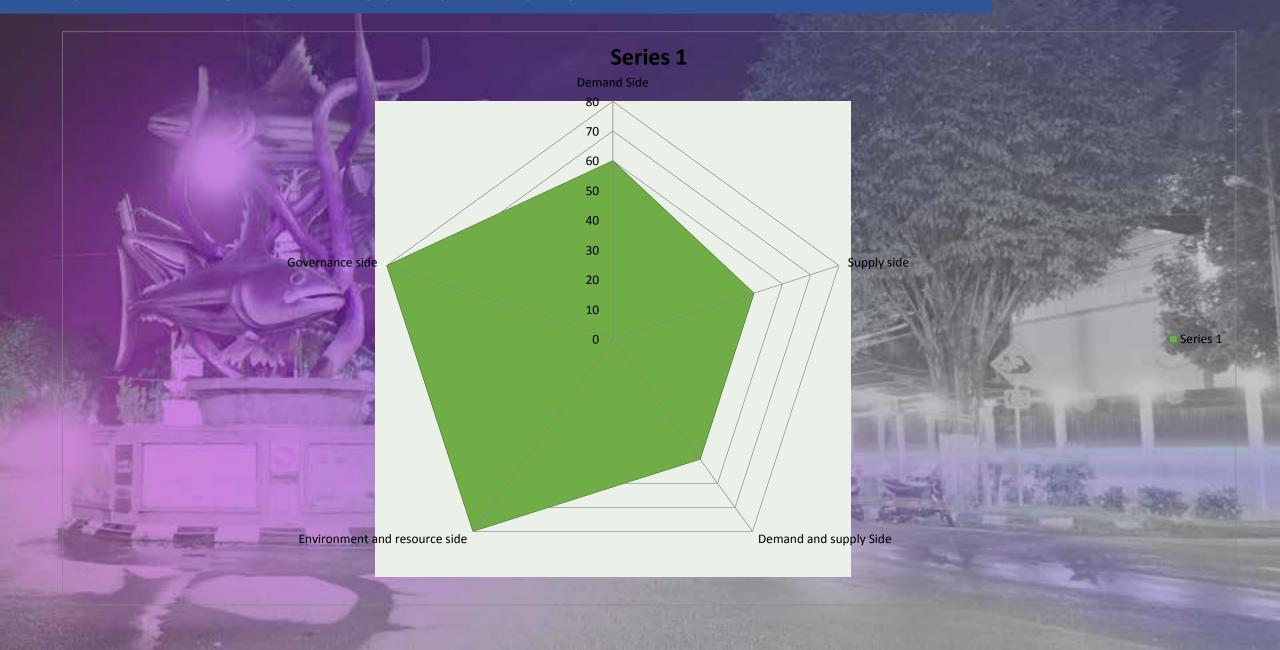


CO2 MEASUREMENT IN IN SEVERAL LOCATIONS IN THE CITY for 1 hour (source: the Environmental agency

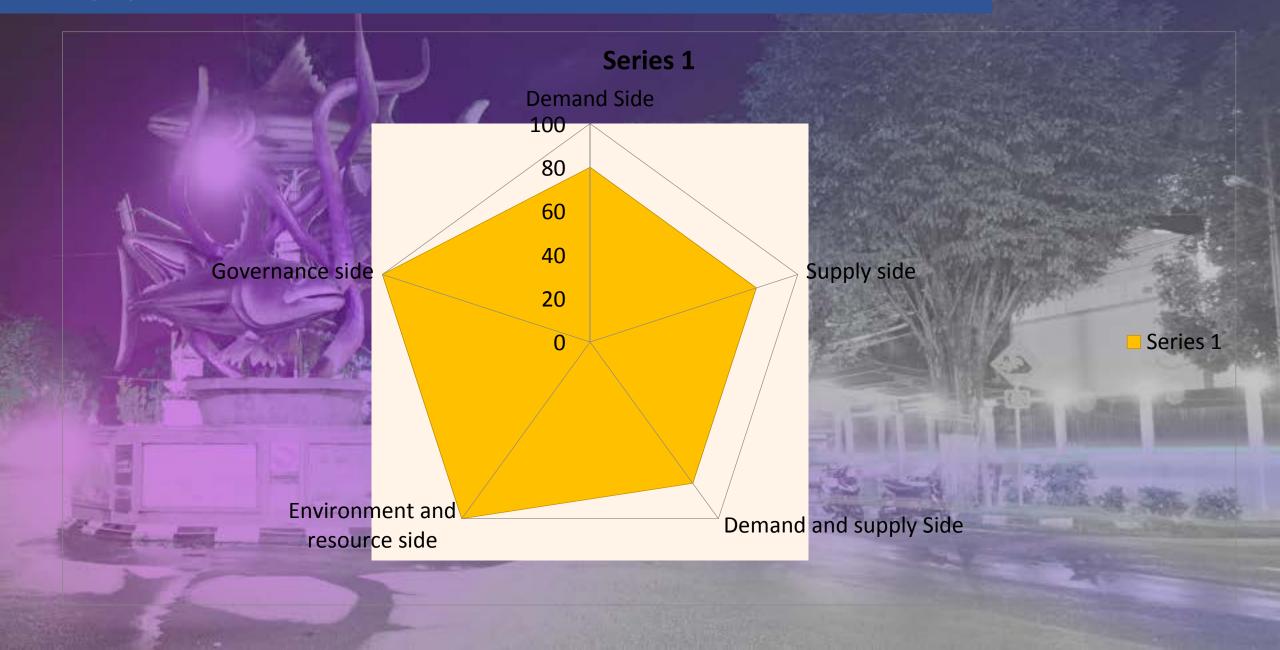
No	Locations	Results		
		2014	2015	2016
1	Tangkoko Terminal	<5000	2200	2100
2	Girian	<5000	320	315
3	Sari Cakalang Field	<5000	240	235
4	Mayor Office Complex	<5000	560	556
5	CBD	<5000	571	570
6	Pateten	<5000	112	115

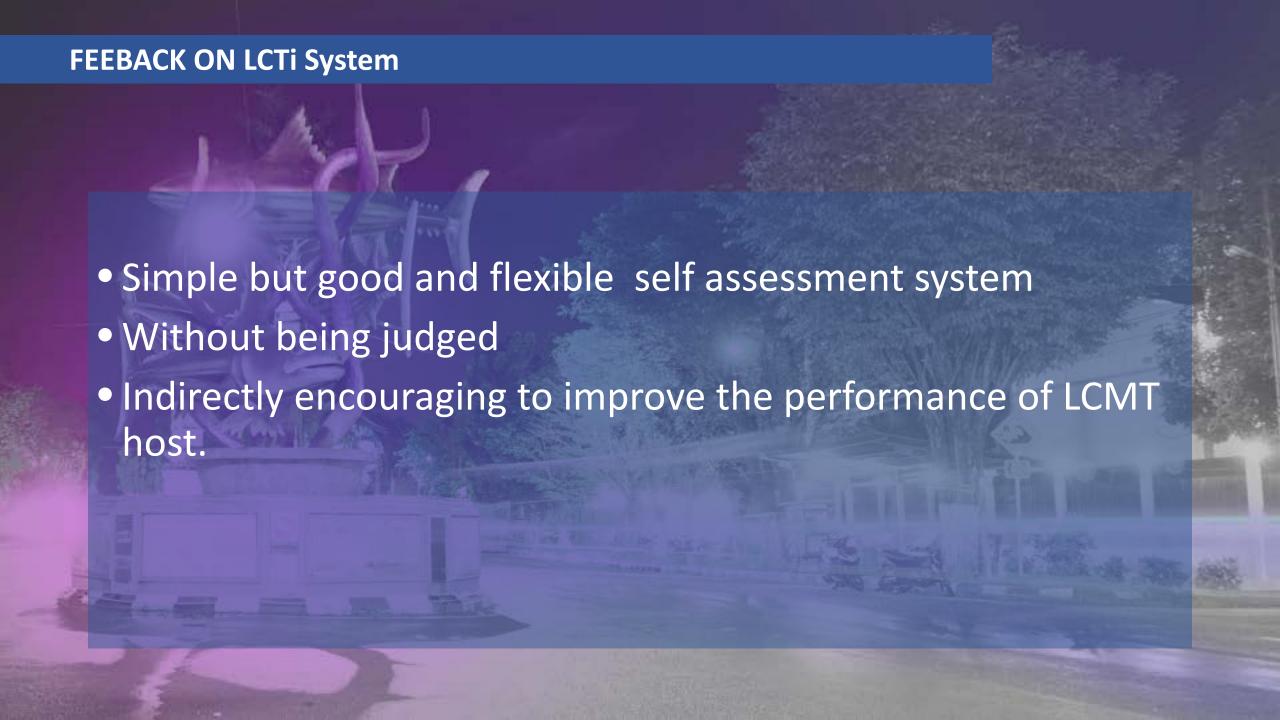


SELF - EVALUATION RESULT OF BITUNG



FUTURE PLAN





CONCLUSION (BITUNG)

- People's awareness of green energy is relatively good
- Strong Leaders' commitment in relation to implementation of renewable energy (reject investments using fossil fuel energy)
- Has Renewable energy resources potential (Solar, wind, Hydro, Waste, Geothermal).
- Strong Policy Frameworks
- Collaboration with The Ministry of Energy and Mineral Resources in order to implementation of Low Carbon Model Town (LCMT)





THANK YOU

WALIKOTA BITUNG MAXIMILIAAN J. LOMBAN Ir. MAURITS MANTIRI