

CRITICAL NEED OF GREENING SME's In Post Rio +20 Scenario



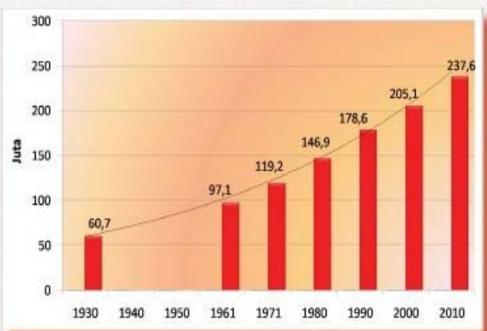
Presented by MOHAMMAD HELMY

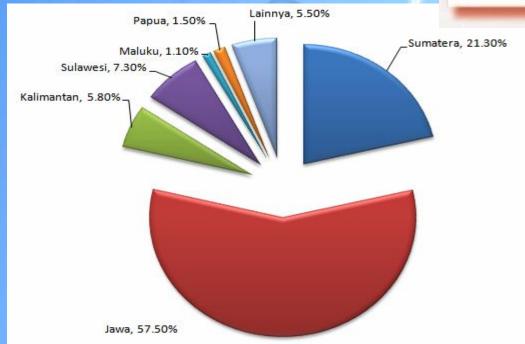
Indonesia Solid Waste Association

Email: InSWA.org@gmail.com

Population, 2010







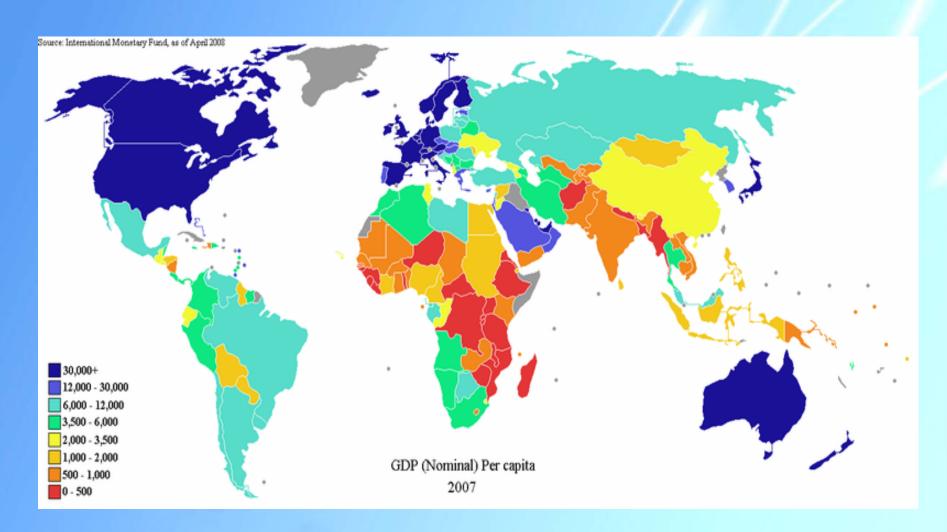


Population Density by Province, 2010



Indonesia: 33 provinces, 96 cities and 398 district
Priority area 14 province

GDP PER CAPITA, 2007



IMF 2009, GDP/Cap Indonesia : US\$ 2,240,-MSW / Cap / Day = 0.7 - 0.8 Kg



ASEAN at a glance



Characteristics	Facts		
Population	 about 580 million people (2008) projected population : 650 million people in 2020 		
Population density	130 people per square kilometer (world average: 49 people per sq km)		
Population in urban areas	44% of region's total population; projected to increase to 55% by 2020		
Coastlines	173,000 km (14% of the world total)		
Forest cover	1,904,593 sq km (2007)		
Mangrove	Over 52,000 sq km		
Peatland	25 million hectares (60% of global tropical peatlands)		
Coral reefs	34% of the world total		
Poverty incidence (% of population living below respective national poverty line)	Cambodia (34.7 %), Indonesia (16.6 %), Lao PDR (32.7 %), Malaysia (3.6 %), Myanmar (26.6 %), the Philippines (30.0 %), Thailand (8.48 %), Viet Nam (14.75 %)		

Positive Contribution

- Based on Report of Statistic Centre Bureau in 2007, Total population of SMEs is 49,8 million units or about 99,99 % out of the total of business units in Indonesia
- Contribute to the employment absorpsion about 97.3%
- SMEs contribute to the National PDB as big as 53,6 %.

Negative Contribution

Due to limited of capital, weakness in management skill and knowlege, SMEs contributes to environmental pollution on the local as well as global scale

LEGISLATIONS

- The Law No. 32 Year 2009 concerning Protection and Environmental Management
- The Law No 18 Year 2008 concerning Municipal Solid Waste Management
- The Law No. 20 Year 2008 concerning Small and Medium Enterprises (SME's)

Pollution Control Strategy for SME's activities

1. To increase production effeciency in order to save the use of material, energy, and water as well as minimize the waste generated.



2. To utilize the waste generated in reducing environmental pollution load and creating economically added value.



Strategic Plan in 2007-2012

- 1. Develop needed guidance related to implementation of pollution load reduction, resource efficiency and cleaner production application for several type of SMEs (i.e. tofu, cassava flour, leather, metal, textile / batik, small scale livestock)
- 2. Capacity building of local government and SMEs through training, technical and finalcial assistance and development of demonstration project
- 3. Conduct studies and facilitation related to the implementation of eco-industrial cluster for SMEs

POLICY INITIATIVES TO PROMOTE 3R and RE Indonesia's experiences





- Non Monetary Incentive Initiatives;
- Monetary Incentive
 Schemes
- Other incentives

Non Monetary Incentive Initiatives

(recognition, publication, technical facilitation, etc

- ADIPURA (a Clean and Green Cities award programme)
- KALPATARU award program (for individual/group/ company for their dedication to the environmental management practices)
- · INDONESIA ECOLABEL SCHEME

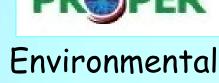












- PROPER (Business Environmental Performance Rating)
- 3R and ICPC (Indonesian Cleaner Production Centre)
- ECO-INDUSTRIAL ESTATE, etc

Monetary Incentive Schemes

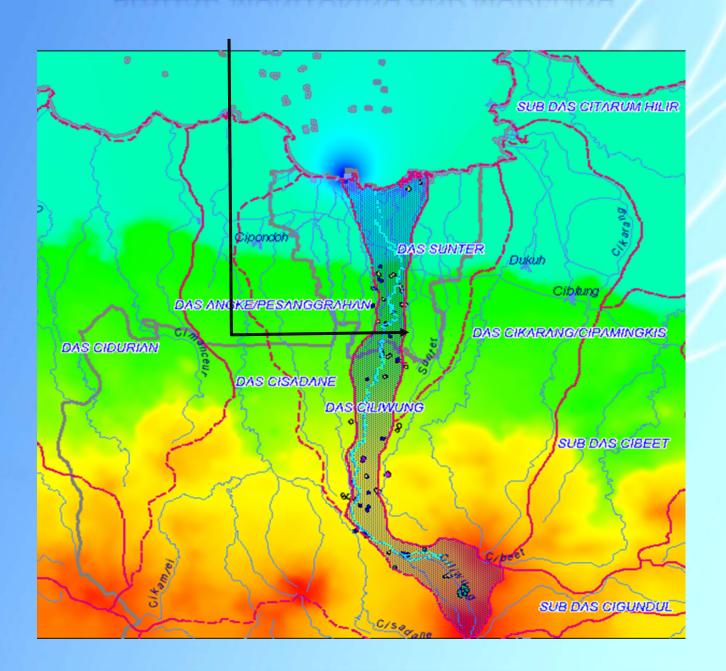
To enhance environmental quality in Indonesia through providing financial assistance to companies, esp. MSMEs which have limited financial access to banks in order to be able invest in environmentally friendly technologies, while at the same time supporting the companies to be in better position in terms of product competitiveness.

- Environmental Soft Loan Programs
 - **Import Duty Exemption Schemes**
 - Subsidy/grant programs
- Special Allocated Fund for environmental management by Local Government
 - Tax reduction (possible)
- Multilateral fund → GEF, ODS phase-out grant
 - CDM, etc

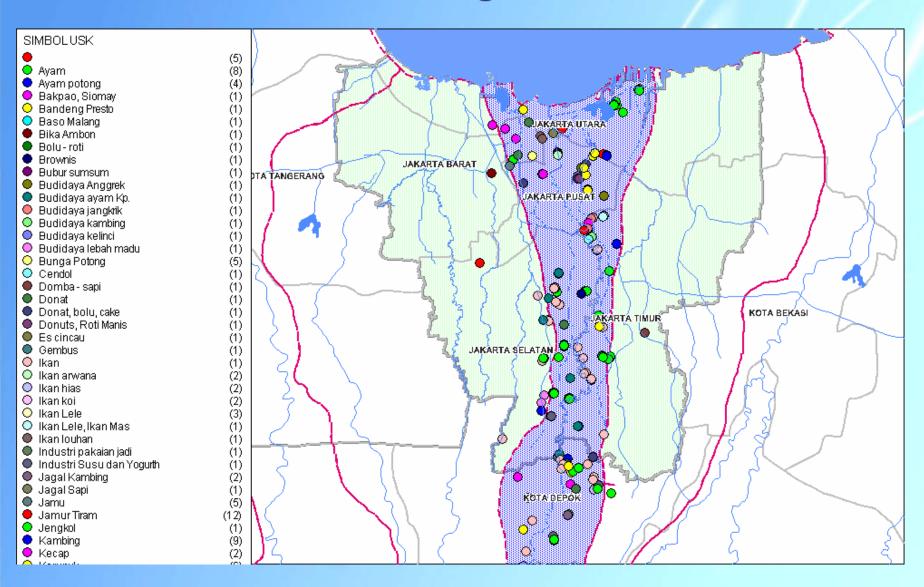
Other incentives

- Collaboration with Indonesian central bank, to internalized environmental measurements into bank' policies
 - i.e. BI regulation no. 2/2005 and Circulate Letter of BI No. **SEBI No**7/3/DPNP which includes inclusion of environmental performance within bank credit policy → i.e. create direct financial disincentive for PROPER' participating companies;
- GREEN PROCUREMENT
- GREEN BUILDING
- others

SPATIAL MONITORING AND MODELING



SME's SCATTERED along The River in JAKARTA



Potentials Benefit from SME's Waste Utilization

Type of SMEs	Biogas (m3/year)	Economic value (US\$/year)	Pollution Load Reduction (ton/year)	Emisson Reduction CO2 (ton/year)
Tofu	34.8 millions	8.4 millions	102.080	0.8 millions
Livestock (cattle)	3 billions	742 millions	548.000	214.6 millions

Indonesia Experience and Post Rio + 20 Scenario

- Indonesia experience is in accordance with Rio + 20 scenario : CP /3R and RE application to SME's;
- Reviewing and strengthening capacity to scaling up and focusing in priority sector and area;
- But it's still need special effort seriously in handling both municipal waste and SME's waste properly.

The Needed of Technology

- Cost effective and small scale of emission and pollution reduction technology which is relatively low in investment, operational and maintenance cost
- Cost effective and small scale reuse and recycle-based technology
- Cost effective and small scale material, energy and water saving technology

Thank you

mohammadhelmy5@gmail.c om

m_helmy59@yahoo.com

+62 811 179 277





