



**Political Will
towards
Global
Commitments,
Local Action
- Penang's
Environmental
Challenge To Lead**

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Global Environmental Commitments

- Prime Minister of Malaysia, Datuk Seri Najib Tun Razak , delivered Malaysia's proposal to reduce its CO₂ emissions to 40 per cent by the year 2020 compared with its 2005 levels, subject to assistance from developed countries. Copenhagen, Denmark. *17 Dec 2009.*
- National Recycling target of 20% by 2020
- Penang achieved Recycling Target of 32% by 2015

Stakeholder
Oriented
Local Action

Economy

Environment

Stakeholders

Institution

Balanced
Sustainable
Development
for a
Green State

Penang's Environmental Policy



- **The Penang Government is committed to the transformation of Penang State's economic, social and cultural development so as to improve the quality of life of its citizens through environmentally sound and sustainable principles based on the CAT principle.**
- **Competency**
- **Accountability**
- **Transparency.**

3. Changing Mindsets (1)

Moving towards Changing Mindsets

- **Awareness**
- **Education**
- **Attitude Change**
- **Warning &**
- **Enforcement**

Selecting Technologies

Selection of Technology

- **Appropriate**
- **Available**
- **Accessible**
- **Affordable**

Success factors

- Strong political will
- Public education & awareness campaigns for behavioral change
- Receptive stakeholders (NGOs, CBOs, Private Institutions) with community commitment
- Strong Community support and participation- ownership
- Incentives & Penalties
-

Local Action 1



Banned the giving of free plastic shopping bags in Supermarkets / Hypermarkets to reduce the carbon footprint. Polluters pay: Bring your Own Shopping Bags

Local Action 5

Collection of used roadside banners to be turned into shopping bags.



Local Action 2



Established “No smoking” zones for Penang and encouraging a healthy life style like cycling.

Penang Smoke Free – North East District has been gazetted

Local Action 3

Banned the use
of Styrofoam
food containers.
Promoting the
use of tiffin
carriers



ALTERNATIVES TO PLASTICS AND STYROFOAM FOOD CONTAINERS



2010 - 44 Food complexes on the island

2011 - Education Phase for all restaurants, shops, night markets licensed by MPPP

2012 – Complete ban Dec 1 2012

Local Action 4 – Food Security



Enforced the closed house system for pig-farming & chicken farming activities
- Zero Discharge

Local Action 7

Establishing
Environmental
Resource
Centres in every
district



(2010)

Taman Desa Damai Environment Resource Centre – In Housing Estate



Local Action 8

ZERO WASTE PROGRAMME (VILLAGE COMMUNITY)



Taman Bagan Lalang Zero Waste Community launching – Learning Centre



BUILDING ZERO WASTE COMMUNITIES

Tzu Chi Community Recycling Centre

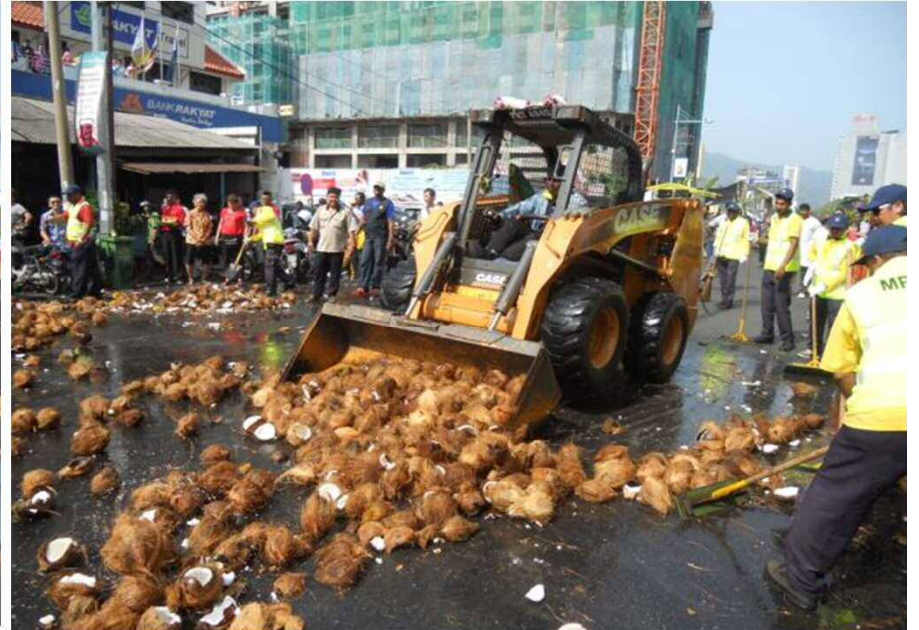


Local Action 9 Managing Mega-events



Thaipusam Festival (1 million devotees annually)





Collection of Food Waste at Festival Site



5. CHANGING THE RULES By-Laws & Regulations

1. Source Separation By-laws

2. Waste Generator Pays Principle

Waste Separation at Source



Batu Kawan **Eco-City** Concept

- **Waste Management System** – Piping Network, Collection System, Facilities (Lorry Depot, One Stop Compose/Recycle/E-Waste Collection Station, Waste Collection Centre – C&D waste)

- **Green Building**

- Energy Efficiency
- Indoor Environmental Quality
- Sustainable Site Planning & Management
- Materials & Resources (Reused & Recycle Material, Sustainable Resource)
- Water Efficiency (Water Harvesting & Recycling)
- Innovation

- **Green Community**

- (Concept MSMA) – Monsoon Drain & Retention Pond
- Improve Drainage System
- Green Technology (LED Street Light, Use of Solar Energy, District Cooling System)



Treatment at Jelutong dumpsite



Material Recovery Facilities (MRF)





6. Looking Ahead

- Objectives:
 - Develop a vision of a sustainable Penang.
 - Develop a new state agenda for sustainable development.

7. FUTURE CHALLENGES

- Overlapping portfolios – Environment & SWM
- Grey areas of Responsibilities
- Need to streamline and coordinate for more efficient handling
- Clear policy direction for balanced development to benefit future needs
- Protect environmental resources
- Local authorities to coordinate with other agencies

- Make changes towards realising environmental importance and sustainability in growing Green Economy supported by strong political will leadership.
- Appropriate action reflected in policy changes and programmes, especially from the State Government towards ecological sustainability & food security

8. CONCLUSION

- **Your Environment , Take The Ownership – There Is No Waste Only Resources Until You Waste It.**
- **Focus on the polluter /waste generator, not the WASTE!**
- **LOVE – Key for the better environment.**
- **We can serve the same sunlight – We can share the same passion and commitment for A Better Tomorrow on Mother Earth.**



TERIMA KASIH