

Regional Workshop Mainstreaming Climate Change Adaptation in EIA in Asia, 25 – 26 October 2011 Bangkok

Sharing of Experience and Challenges by :
Ms Norlin Jaafar
Department of Environment, Malaysia



MALAYSIA NATIONAL POLICY ON CLIMATE CHANGE

POLICY STATEMENT

Ensure climate-resilient development to fulfill national aspirations for sustainability

5 Principles

10 Strategic Thrusts

43 Key Actions



CASE STUDY

- Detailed Environmental Impact Assessment (DEIA) for Proposed Sanitary Landfill at Pagoh, Mukim Jorak, Muar, Johor Bahru, 2011
- Construction of landfill at Pagoh, Johor
- 400 tonnes/day to serve Muar District
- 60 ha, 2 Phases.
- Development of Phase 1



CASE STUDY

- IMPACT ASSESSMENT

Chapter on Air Quality & Odour

Landfill Gases:

- Volume of carbon dioxide and methane to be generated at the proposed sanitary landfill.
- Predicted greenhouse gases generation expressed in CO₂ equivalent
- Total estimated 100 year GWP :
477,192 MT/year (CO₂ equivalent)



MITIGATING MEASURES

- Design Stage
 - semi-aerobic : 234, 805 MT/year (CO₂ equivalent)
 - anaerobic : 411, 192 MT/year
- Operational Stage
 - monitoring
 - response plan
 - application of daily cover
 - operation of garbage trucks
 - landfill gas collection & venting
 - Leachate treatment Plant



MITIGATING MEASURES

- Post-Closure Stage
 - landfill will be closed & covered with final soil cover
 - landfill gas collection facility will continues operation & collected residual gases will be flared wherever necessary.





KEY CHALLENGES

- awareness
- project identification
 - 19 prescribed activities :
Industry? ,sanitary landfill?, power generation?
agriculture?, hydroelectric power? ,forestry?
- scoping
 - determining amount of GHG emitted
- impact assessment
 - comparison with standards

KEY CHALLENGES

- mitigating measures
 - reduction of GHG, emission, energy efficiency, carbon footprint
- implementation and monitoring
 - Regular monitoring & reporting of GHGs emission
- standardization



WAY FORWARD

- Awareness among the Project Proponent & EIA Consultants.
- Guidance Document for Addressing Climate Change Aspects in the EIA Reports.



TERIMA KASIH

