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Integrated Solid Waste Management Capability Statement

Eco-Ideal Consulting Sdn Bhd
INTRODUCTION

Eco-Ideal Consulting Sdn Bhd is one of the leading solid waste management (SWM) consultants in Malaysia. Our multidisciplinary team is well trained and experienced to provide holistic approaches and practical solutions to meet the needs of our client.

Our company has developed impressive track records in the area of integrated solid waste in Malaysia. Our services have been provided to the Federal or National level, State wide master planning and down to local community or company level. Internationally, our leading specialist had conducted various waste related studies in Sweden, Denmark and United Kingdom.

We believe in an integrated approach to solid waste management, whereby the concept of Reduce, Reuse and Recycle shall form a fundamental policy and strategy thrust. An integrated approach is targeted to meet the sustainable development challenges of urban development where resource efficiency can be improved while environmental impacts from solid waste are minimized.

OUR SERVICES

Eco-Ideal has provided a diverse range of solid waste management services over the years. Our specific services in the field of integrated solid waste management include:

- Policy and integrated waste planning
- Legal and organisation aspects
- Master plan and local action plans
- Waste minimisation strategies
- Technical design and solutions
- Contract and project management
- Waste characterisation
- Feasibility studies
- Technical studies
- Environmental Impact Assessment (EIA)
- Carbon emission reduction and carbon footprint initiatives
- Data and information management
- Education and training
OUR STRENGTHS AND TRACK RECORDS

Our involvement includes various aspects of integrated SWM, ranging from strategic planning, master plan, legal and institutional aspects, capacity building and training, technical and feasibility studies, implementation and monitoring of concrete projects and programmes. Most of these projects are anchored in governmental agencies and we have developed strong relationship with our counterparts including service providers as well as NGOs. Public participation in SWM is another strong field particularly in engaging community into waste minimization and we have done numerous awareness and training events.

Our selected credentials

Waste Planning and Management
- Technical advisor to the DANIDA Solid Waste Management Component (SWMC)(Mar 2006-on-going), anchored in the Ministry of Housing and Local Government (MHLG):
  - Advisory services to policies, regulations and organization set up
  - Costing analysis
  - Waste collection schemes and facility planning
  - Waste flow and projections
  - Mapping of waste generation and creating inventories
  - Capacity building in data management
  - Review of policy, plans, regulation and guidelines
  - Compile and review waste technologies
  - Integrated approach to Solid Waste Master Plan (2007-2030)
  - Financial analysis (cost projections, cost recovery etc.)

Waste Planning and Management (continue)
- Technical Advisor to the MHLG / Miri City Council / Japanese International Cooperation Agency (JICA). The Study on National Waste Minimisation in Malaysia (2005-2006);
- Team leader – Solid Waste Minimisation Pilot Projects on Recycling Network, Source Separation & 3-R for Schools in Miri, Sarawak. Capacity building for Miri City Council under the Study on Waste Minimisation in Malaysia (2006), funded by JICA;
- Policy Analysis in Waste to Energy Projects (landfills and palm oil waste) for DANIDA (Danish International Development Assistance)/ EPU Renewable Energy / Energy Efficiency Project (2005);
- Preparation of Technical Working on SWM in Malaysia for DANIDA/EPU Malaysia SWM component (2004) – including hazardous waste policy, regulation and institutional review;
- Barrier Analysis of Biomass Supply Chain as Renewable Fuel in Malaysia for DANIDA / EPU Renewable Energy / Energy Efficiency Project (2004-2005);
- Developed inventories of waste generation including industries. Elaboration of Solid Waste Management monitoring and reporting for the Urban Environmental Management System in Kuching, Sarawak (2003);
- Development of used tyre management framework system (strategy and draft regulations) (2003);
- Solid Waste Management Baseline and Recycling Study in Kuching / Sarawak (2002-2003);
- Legal and Institutional aspects for waste management in Kuching, Sarawak for the Sustainable Urban Development Project, Sarawak (2002);
- Planning and implementation of community based 3-R recycling centre in Kuching, Sarawak. Capacity Building for community and private sectors on Waste Minimisation (2000-on-going).
Technical and Feasibility Studies

- Survey on Existing Practices of Private Waste Transporters in Melaka. Funded by MHLG/DANIDA Solid Waste Management Component (2009);
- Survey on Participation Rates in Scheduled Collection of Bulky and Green Waste in MBMB. Funded by MHLG/DANIDA Solid Waste Management Component (2009);
- Survey on Waste Amount, Storage Capacity and Waste Density in Landed Residential Areas. Funded by MHLG/DANIDA Solid Waste Management Component (2009);
- Survey on Generation of Non-Hazardous Industrial Wastes in Selected Industrial Areas in Selected Industrial Areas in Melaka. Funded by MHLG/DANIDA Solid Waste Management Component (2009);
- Pre-Feasibility Study on Biogas Production from Palm Oil Waste in Selected Areas of Malaysia. (2009);
- Identification of good practices on solid waste management. Funded by MHLG/DANIDA Solid Waste Management Component (2008);
- Report on Illegal Dumpsites Identification in Selected Areas in Majlis Daerah Hulu Selangor. Funded by MHLG/DANIDA Solid Waste Management Component (2007);
- Handbook for LAs for registration of landfills and illegal dumpsites. Funded by MHLG/DANIDA Solid Waste Management Component (2007);
- Management study on amount, generation and flow of Electronic and Electrical (EE) Waste in Singapore and Malaysia. Funded by Ministry of Environment, Japan. (2007);
- Environmental Impact Assessment (EIA) for storage facility for used oil and used batteries. (2006);
- Waste Minimization (recycling) Master Plan Study: Sub-consultant assisting in generating material flow of various recyclable items in East Malaysia and identification of recycling pilot projects;
- Cost Benefit Assessment of Organic Waste Technologies for Hotels and University in Penang, funded by the Asian Productivity Organisation (APO), Japan 2005;
- Assessment of fast rate composting technologies for organic food waste and household composting options (compost bins, vermin-composting etc.) in Kuching;
- Pre-feasibility study and biogas design for biogas applications in the animal waste. Assessment of application of biogas recovery and utilization of piggery waste in the Centralised Pig Farming Area in Pasir Puteh, Samarahan, Sarawak. (2006);
- Study on Clean Development Mechanism Potential in Waste Sectors (Including Renewable Energy Potential) in Malaysia (2005), funded by DANIDA and Malaysian Energy Centre;

Data Management

- Pilot Project: Setting up of a web-based solid waste data reporting system (MYWASTE) for Ministry of Housing and Local Government Malaysia (2008-2009);
- Data management assistance to the Malaysian Government/DANIDA Solid Waste Management Component Project (2006-2009);
  - Data collection and compilation
  - Inventories of generation sources, transporters, disposal sites and recycling centres
  - GIS mapping
- Assist the State Government of Sarawak in developing a comprehensive environmental database management system – including setting up the Sarawak Solid Waste Information Management System for landfill monitoring. (Oct 2003 – Ongoing).

Project Management

- Project management consultant for landfill gas recovery and utilization at Bukit Tagar Sanitary Landfill, Selangor;
- Consultant: Technology assessment for Biogas Production from waste at centralized Livestock Farming Area, Samarahan, Sarawak