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Clean Development Mechanism (CDM) Capability Statement



INTRODUCTION

Eco-Ideal Consulting Sdn Bhd (Eco-Ideal) is one of the pioneers and leading CDM consultants in Malaysia that is wholly Malaysian-owned. The CDM team is led by Engr. Soon Hun Yang, Chief Executive Officer, who has been involved in CDM related work in Malaysia and abroad since year 2002.

Our company's diverse in-house team of environmental managers, professional engineers, scientists as well as management and financial advisors enable our company to have multi-pronged approach of services required to meet the needs of our clients. To further strengthen certain specialized tasks, we are also associated with some leading international CDM consultancy companies in order to provide the most efficient and effective services to our clients.

With the capacity of bridging both the private and public sector needs with our strong technical and analytical capabilities, we believe we can provide practical solutions and satisfactory services to meet your needs throughout the entire CDM project development.

OUR SERVICES

Going through the process of CDM project development and application requires highly specialised skills and experiences. We are dedicated to provide "One-Stop" services, from developing and guiding greenhouse gas (GHG) emission reduction projects step by step from start to finish for both project developers and buyers of certified emission reductions (CERs). We also undertake research and studies as well as capacity building for both the governmental and private sectors in dealing with CDM issues. Our specific services include:

CDM Project Management and Documentation

- Project identification and preliminary feasibility assessment
- Financial feasibility study and optimization of project
- Overall project management and liaison with authorities, technology suppliers, etc
- Project Idea Note (PIN) and Project Design Document (PDD) development
- PDD validations and monitoring plans
- New baseline methodologies
- Data collection and analysis
- Project registration, monitoring, verification and certification

Technology Supply and Installation

- Technology identification and specification
- Evaluation of suppliers
- Contracting and agreement advice
- Project management related consultancy

Carbon Trading and Evaluation

- Buyer identification and specification
- Due diligence
- CER brokerage and trading
- Emission Reduction Purchase Agreement (ERPA) advisory
- Project monitoring and management services

Capacity Building, Training and Research

- Awareness raising and general courses on CDM
- Detailed training courses on CDM application, implementation and monitoring
- In-depth policy and technical research



OUR SERVICES *(continue)*

In addition, we also provide project management services to ensure the project is implemented according to the CDM requirement.

We also provide services to apply for Very Small Renewable Energy Programme (SREP) as well as negotiation with TNB on the interconnection as well as Renewable Energy Power Purchase Agreement (REPPA).

OUR STRENGTHS AND EXPERIENCES

Our understanding of the key success factors in CDM is one of the most important strengths of our team. Our experiences and knowledge of the local business culture and expectation will ensure our advice and services fulfill the client's needs.

Successful CDM documentation requires skills and detailed understanding of technical aspects of the project in question. *Eco-Ideal's* forerunning position as one of the leading consultants in waste management and renewable energy in Malaysia complements our provision of CDM related professional services to our clients. In this respect, we have executed numerous important baseline studies on GHG emissions, potential in the waste sectors and so forth.

Our experience in identifying and evaluating CER buyers and playing an advisory role in ERPA negotiations spans from CDM projects in landfill gas recovery, POME biogas, biodiesel production to livestock waste management. Up to date, our carbon trading portfolio of trading covers up to around 5 million CERs for the next 7 crediting years.

Eco-Ideal maintains an inventory of credible buyers who have passed our stringent evaluation based on a due diligence and the buyer's financial ratings (where applicable). We also examine the buyer's CDM track records, taking into consideration such factors as how many projects they have signed, particularly in this region. Based on this inventory, we are able to assist clients with identifying and evaluating CER buyers.

Our selected references

CDM Project Management and Documentation

- Provided consultancy (feasibility, baseline study and PDD) towards the successful registration of the world's first POME biogas project (POME biogas project at Kim Loong's Palm Oil Mill at Kota Tinggi, Johor) with the United Nations CDM Executive Board in year 2006;
- Conducted a CDM feasibility study for a palm oil mill in Kluang, Johor, developed the PIN and PDD, and identified buyers for the CERs to be generated. Our scope of work also included a review of various technological solutions and suppliers for POME biogas recovery and EFB composting, which consisted of vetting through proposals and facilitating discussions with suppliers on customisations for the client;
- One-stop services for Bukit Tagar Sanitary Landfill gas recovery and utilisation - including feasibility assessment, PDD development, validation and registration;
- One-stop CDM services for production of biodiesel from inedible waste oil and fats - including feasibility assessment, PDD development, validation and registration;
- Conducted feasibility study, identified CER buyers and developed PDD for CDM application in livestock waste management involving digesters and biogas solutions in Sarawak;
- Project management for CDM projects in Shandong Province in China:
 - i. Yatai Zhonghui (Composite Project-Chicken Farm)
 - ii. Shun Chang Biochemical Ltd Co (Biogas Project-Alcohol Plant)
 - iii. WeiFang Qiaoxin Agriculture Development Ltd Co (Biogas Project-Pig Farm);
- Involved in the approval of new CDM methodology (AM0057) for utilising EFB in pulp and paper industries in year 2007; and
- Support to PIN development for hydropower projects in Pahang and Terengganu.



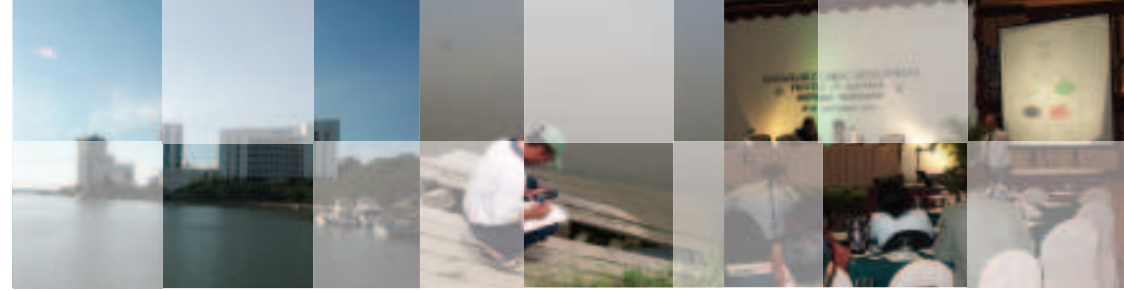
Technology Supply and Installation

- Project management consultancy for landfill gas recovery and utilisation project;
- Technological supplier identification and evaluation for landfill gas recovery in Selangor;
- Technological supplier identification and evaluation for biogas recovery from POME in Selangor; and
- Cost Benefit Assessment of Organic Waste Technologies for hotels and university in Penang, funded by the Asian Productivity Organisation (APO), Japan.



Carbon Trading and Evaluation

- CER buyer identification and evaluation for landfill gas recovery and utilisation in Selangor (about 650,000 CERs over the next 7 years);
- ERPA advisory services for landfill gas recovery and utilisation in Selangor;
- CER buyer identification and ERPA advisory services for POME project in Johor (about 700,000 CERs over the next 7 years);
- ERPA advisory services for POME biogas project in Johor;
- CDM projects in Shandong Province in China (770,000 CERs for next 7 years);
- Production of biodiesel from inedible waste oil and fats CDM project (total of 1.8 million CERs for next 7 years); and
- Biogas production from animal waste - centralised livestock farming area in Pasir Puteh, Sarawak (total of 1.1 million CERs for next 7 years).



Capacity Building, Studies and Research

- Implementation of Feed-in Tariff (FiT) and its relation to CDM project implementation in Malaysia for Malaysia Green Technology Corporation (MGTC, formally known as PTM);
- Conducted detailed feasibility assessment for biogas production from POME in Southern Johor and Bintulu, Sarawak for Mitsubishi Corporation, Japan;
- Assessed CDM potential for landfill and material recovery facilities in Pulau Burong Landfill, Penang;
- Study on CDM potential in waste sectors (including renewable energy potential) in Malaysia, funded by DANIDA and MGTC;
- CDM Capacity Building Programme under Danish International Development Assistance (DANIDA) Renewable Energy/ Energy Efficiency (REEE) project in Malaysia;
- Taxation of CERs – A Review on Applicability in Malaysia, DANIDA REEE Project;
- CDM baseline study for POME Methane emission in Malaysia, DANIDA REEE Project;
- Conducted a pre-feasibility study for biogas application using animal waste and POME, which involved collecting and analysing technical data and calculations on waste, potential gas, retention time, and so on;
- Barrier analysis of Biomass Supply Chain as renewable fuel in Malaysia for DANIDA/ Economic Planning Unit (EPU) REEE Project;
- Policy analysis in Waste to Energy Projects (landfills, palm oil waste as well as biodiesel) for DANIDA / EPU REEE Project;
- Capacity building for CDM Secretariat in Malaysia (development of PDD; assessment tool; and financial assessment); and
- Development of CDM Course Material for Open University

