



December 2011

## Company Profile and Capability Statement



**Eco-Ideal Consulting Sdn. Bhd.** (Co. No: 622103-X)

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## Our Profile and Capability

**Eco Ideal Consulting Sdn. Bhd (Eco-Ideal)** is a wholly Malaysian owned private limited company incorporated in Malaysia under the Companies Act 1965 on 17 July 2003. It was established in response to the increasing needs for innovative and professional environmental consultancies worldwide. We provide a **full range of integrated environmental planning and consulting services** to our private and public sector clients, including industries and government agencies facing challenges that demand environmental experience and technical expertise.

Despite the challenging economic cycles of the past decade, we continue to grow at a rapid pace. Since 2006, we have expanded and currently have operations in both East and West Malaysia.

With our **offices strategically located in Kuala Lumpur and Kuching**, we are able to provide our clients with services delivered on time while paying close attention to details and maintaining the quality of work which is the hallmark of our reputation.

To date, we have **total staff strength of 15** and are headed by Engr. Soon Hun Yang (Chief Executive Officer) and Ir. Soon Choon Huie (Managing Director). Our **team consists of well qualified environmental managers, engineers, executives, IT specialists and supporting staff**. With wide experience and knowledge in the environmental field, we are intent on satisfying our clients to the best of our ability. To strengthen further our multi-disciplinary make up, our company **also works closely with a group of international and Malaysian based associates**.

Eco-Ideal has also incorporated a subsidiary company, **Eco-Ideal Systems** (Co. No. 65951) on December 2003 (<http://www.ecoideal.com.my/ecoisys> ). It is principally involved in **provision of solutions on data and information management** and also supplying other information technology products. It is the exclusive and sole **distributor of GeoEnviron Environmental Information System** in South Pacific Region.

**ECO-IDEAL CONSULTING – *Pioneering a Sustainable Future***

## Our Core Competencies

### Renewable Energy and Energy Efficiency

- Policy and planning
- Feasibility study / survey
- Assistance on Feed in Tariff Application
- Technical design and technology
- Capacity building and training



### Clean Development Mechanism (CDM)

- Step by step CDM application assistance
- Documentations and approvals
- Carbon trading advisory services
- Financial and technology feasibility



### Solid Waste Management (SWM)

- Policy and planning
- Technical design and technology and solutions
- Data management
- Studies, research and surveys
- Capacity building and training



### Carbon Footprint

- Carbon footprint calculation
- Carbon footprint appraisal
- Carbon foot print charting and management plan
- Ad hoc carbon management support
- Training and workshop

### Water and Wastewater

- Policy and planning
- Technical design, technology and solutions
- Studies, research and surveys
- Capacity building and training



### Environmental Information System (EIS)

- Database and Geographical Information System (GIS) applications
- System design and customisation
- Data capturing and conversion
- GIS applications and integration

### Other Services

- Environmental planning and management
- Environmental research and project management
- Environmental technology and solutions
- Environmental training, education and facilitation
- Feasibility studies and environmental economics
- Environmental audit, monitoring and reporting

## Our Directors

### Managing Director

**Ir. Soon Choon Huie** is the Managing Director of the Company. He graduated from the University of New South Wales, Australia in 1969 with a Bachelor of Engineering (Civil). As a professional civil engineer, he is involved in many civil and structural engineering projects. He has more than 35 years of working experience and a vast knowledge in project management and administration from holding various senior management positions in the public (utility sector) and private sectors.

### Director/Chief Executive Officer

**Engr. Soon Hun Yang** is the Chief Executive Officer / Director of the Company. He holds a Master of Science in Environmental Management and Policy from the International Institute for Industrial Environmental Economics, Lund University, Sweden, and a Bachelor of Technology in Environmental Engineering from Massey University, New Zealand. He has more than 12 years of environmental and technical experience in environmental related projects and project management through his involvement in various tasks both in the public and private sectors. He is one of the pioneer CDM consultants in the region.

## Our Affiliations and Certifications

1. Registered with Department of Environment (DOE) as **Soon Hun Yang - AS0643**  
**Subject Specialist**  
Area of expertise: Solid Waste Management
2. Registered engineers (Ir. Soon Choon Huie and Engr. Soon Hun Yang) under Board of Engineer Malaysia and Institute of Engineer, Malaysia
3. Registered consultant under Unit Pendaftaran Kontraktor dan Juruperunding Negeri, Sarawak (UPK license).
4. Registered consultant with Selangor State Government (State Planning Unit, 2011).
5. Environmental Impact Assessment (EIA) Consultant Registration Certificate (Firm and Individual) under Natural Resources and Environment Board Sarawak.
6. Individual Member of International Solid Waste Association (ISWA)
7. Member of Waste Management Association of Malaysia (WMAM)
8. Member of Environmental Management and Research Association (ENSEARCH)



## Credentials & Clients

Eco-Ideal Consulting Sdn. Bhd. is involved in various projects, studies and system developments with international and national clients and the local government. Organisations we have worked with are:

### International

- Danish International Development Assistance (DANIDA)
- Japan International Cooperation Agency (JICA)
- United National Development Programme (UNDP)
- German Technical Cooperation-Deutsche Gesellschaft fuer Technische Zusammenarbeit (GTZ)
- Asian Productivity Organisation (APO), Japan
- Vietnamese Environmental Protection Agency
- Ministry of Construction Vietnam
- European Commission (EC)
- ECON Carbon AS, Norway
- COWI Consulting Planners and Engineers, Denmark
- NIRAS A/S, Denmark
- Yachiyo Engineering Co. Ltd., Japan
- Japan Carbon Finance, Ltd. (JCF)
- Particip GmbH, Germany
- Belgium Technical Corporation
- Mitsubishi Corporation, Japan
- Industrial Power Technology Pte Ltd., Singapore
- Sustainable System Design Institute, Japan

### Malaysia

- Economic Planning Unit (EPU)
- Ministry of Housing and Local Government (MHLG)
- Ministry of Natural Resources and Environment (NRE)
- Department of Irrigation and Drainage (DID)
- Department of Environment (DOE)
- Department of Public Works (JKR)
- Selangor Waters Management Authority (LUAS)
- Malaysia Green Technology Corporation (MGTC)(Formally known as Malaysian Energy Centre, PTM)
- Department of National Solid Waste Management (JPSPN)
- State Government of Selangor, Kedah and Sarawak
- State Information and Communication Technology (ICT) Unit, Chief Minister Department, Sarawak
- Natural Resources and Environment Board (NREB), Sarawak
- Various Local Authorities in Malaysia
- KUB-Berjaya Enviro Sdn. Bhd.
- Chemsain Konsultant Sdn. Bhd.
- Sungai Kahang Palm Oil Sdn. Bhd.
- Indah Water Konsortium (IWK) Sdn. Bhd.
- QL Resources Bhd.

## Our Proven Track Records



### ***Renewable Energy and Energy Efficiency/ Clean Development Mechanism (CDM)/ Carbon Reduction Projects and Project Management***

#### **(I) Proven Track Records of One-Stop Services**

- One-stop services for Small Renewable Energy Programme (SREP) & Feed In Tariff (FiT) application:
  1. Bukit Tagar Sanitary Landfill Gas Recovery and Utilisation (2008 – present) – successes in 1MW application and implementation from 2010 until present. Our project management scope of work includes biogas pre-treatment, power generation and grid connections. In addition, we provide assistance in Power Purchase Agreement (REPPA) application.
  2. 3.2 MW grid connection power generation project from Bukit Tagar Landfill Gas – assistance in planning and documentation towards successful FiT application in Dec 11.
- One-stop services for CDM development:
  1. CDM monitoring services for Konzen Clean Energy SB's Rinwood POME biogas projects in Mukah, Sarawak
  2. CDM project development for POME methane recovery and utilisation at QL Palm Oil Mill No.1 in Tawau, Sabah
  3. CDM project development for EFB Stabilised Biomass (Pelleting) at QL Palm Oil Mill No.1 in Tawau, Sabah
  4. Sungai Kahang POME Biogas Recovery for Energy Project in Johor, Malaysia (2007 - present) – feasibility study, Project Idea Note (PIN) and Project Design Document (PDD) development, validation and registration. In addition, we also conducted a review on various technological solutions and suppliers for palm oil methane effluent (POME) biogas recovery and power generation. We securitized proposals and facilitated discussion with technology providers on customising the technology needed by the client. The project was successfully registered with the CDM Executive Board in October 2010. We are currently providing the CDM monitoring and biogas system performance monitoring for the project.
  5. One-stop services for Bukit Tagar Landfill Gas Recovery and Utilisation Project – including feasibility assessment, PDD development, validation and registration. First issuance of CERs (first landfill to have CER issued in Malaysia) obtained on 3 May 2011. Second issuance on 4

November 2011. Our project management scope of work includes biogas pre-treatment, power generation, grid connections and feed in tariff applications.

6. 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 2006. Initial verification completed in March 2011. 1st verification on-going.
7. Livestock Biogas to Power in Sarawak – feasibility study, CER buyers identification and PDD development involving digesters and biogas solutions for CDM application (2008 – present).
8. Biodiesel Production from Inedible Waste Oil and Fats - feasibility assessment, PDD development, validation and registration (Apr 2010 -present).

## **(II) Continuous Support to National Sustainable Development Efforts**

1. Development of “A Guide to Energy Efficiency Management in Sewage Treatment” for Indah Water Konsortium (IWK) Sdn. Bhd. (Dec 2008 –Jun 2010);
2. Conducted 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);
3. Conducted Palm oil mill effluent (POME) baseline study for determining methane emissions in Malaysia, DANIDA Renewable Energy & Efficiency Project. The project includes monitoring of POME in Selangor and Pahang (Jul 2005 – Mar 2006);
4. Conducted Pre-feasibility Study on Wood Waste to Energy Power Plant in Bintulu, Sarawak for DANIDA Urban Environmental Management System (UEMS) Project (Dec 2004 – Feb 2006);
5. Policy analysis in Waste to Energy Projects (landfills, palm oil waste as well as biodiesel) for DANIDA / EPU Renewable Energy / Energy Efficiency Project (Dec 2004 – Mar2005);
6. Conducted study on CDM Potential in Waste Sectors in Malaysia, funded by DANIDA and Malaysian Energy Centre (Aug 2004 – Mar 2005);
7. Conducted assessment on Strategic Environmental Assessment on Palm Oil based Diesel, DANIDA Renewable Energy & Energy Efficiency Project (Dec 2004); and
8. Involved in energy audit survey for a project: “Increasing Awareness and Building Capacity of Urban Malaysians on Sustainable Energy Option”'s funded by UNDP/GEF (2004).

## **(III) Active Participation in National Capacity Building Programmes, Training and Research**

1. Development of Malaysia CDM Registry IT Portal for the Ministry of Natural Resource and Environment (May 2010-May 2011);
2. Capacity building for CDM Secretariat in Malaysia (2010);
3. National Specialist to the Ministry of Natural Resources and Environment / UNDP/GEF/ Eco-Factor. National Capacity Needs Self – Assessment Project. (Aug 2007-2008);
4. Barrier Analysis of Biomass Supply Chain as Renewable Fuel in Malaysia for DANIDA (Danish International Development Assistance)/ EPU(Economic Planning Unit) Renewable Energy / Energy Efficiency Project (Apr 2005 – 2007);
5. CDM Capacity Building Programme under DANIDA Renewable Energy / Energy Efficiency Project in Malaysia, Ministry of Energy, Water and Communication / Malaysian Energy Centre (PTM) / DANIDA (Jul 2005-Mar 2007);

6. Involved in the approval of new CDM methodology (AM0057) for utilising Empty Fruit Bunches (EFB) in pulp and paper industries (2007);
7. Prefeasibility Study “Assessment of waste resources availability, CAPEX, OPEX, review of technology, regulatory requirement, incentives and barriers – for Biogas Production from Palm Oil Waste (EFB & POME)” in Selected Areas in Malaysia for Mitsubishi Corporation (Jul 2009 – May 2010);

#### **(IV) Proactive Participation in International Projects**

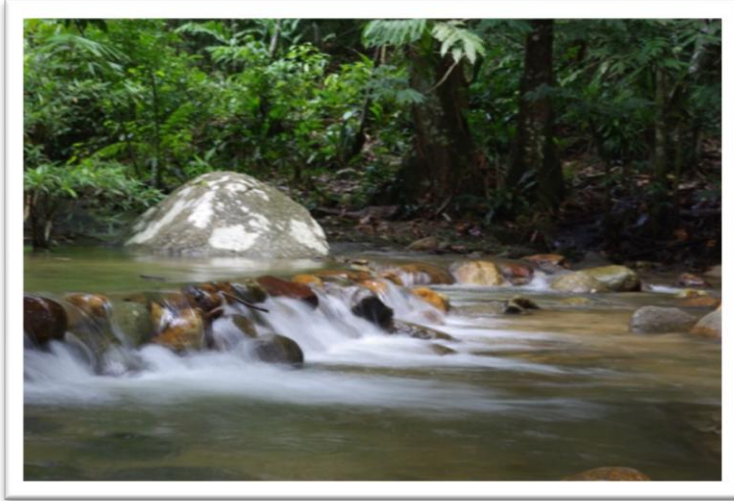
- Project management for CDM projects in Shandong Province in China (2010-July 2011):
  1. Yatai Zhonghui (Composite Project-Chicken Farm)
  2. Shun Chang Biochemical Ltd Co (Biogas Project-Alcohol Plant)
  3. WeiFang Qiaoxin Agriculture Development Ltd Co(Biogas Project-Pig Farm);



#### ***Solid Waste Management Experiences:***

1. Formulation of Food Waste Management Plan for Greater KL/Klang Valley. Department of National Solid Waste Management Malaysia / Malaysian Environmental Resources Centre Sdn. Bhd. (Jul 11- present).
2. “The Project for Model Development for e-waste Collection, Segregation and Transportation from Households for Recycling” has kicked off. The project is funded by Japanese International Corporation Agency (JICA) and implemented by Department of Environment with cooperation from Pulau Pinang Municipal Council. (Nov 11- present).
3. The study on the existing practice of solid waste recycling in Malaysia. Assist in interview, data analysis, and reporting. Department of National Solid Waste Management Malaysia / GSR Environmental Consultants Sdn. Bhd. (Jul11 – present).
4. The study on used tyre waste management in Peninsular Malaysia. Main responsibilities include liaison with various stakeholders for data collection, compilation and verification.(Mar 11 – Jul 11).
5. Planning and implementation of community based 3-R recycling centre in Kuching, Sarawak. Capacity Building for community, private sectors on Waste Minimisation (2000-present).
6. Conducted study on scrap tyres management for Peninsular Malaysia. Department of National Solid Waste Management Malaysia/ Chemsain Konsultant Sdn. Bhd. (Mar-Jul 2011).

7. Provided consultancy and developed dissemination reports (see below) for solid waste related activities and programme under the Community Initiatives and Educational Fund of DANIDA-Solid Waste Management Component:
  - ✓ “Composting – Closing the Loop at Home” (A Household Home Composting Programme in Majlis Bandaraya Petaling Jaya (MBPJ)), DANIDA SWMC (2010);
  - ✓ “Involving the Community in 3R” (Community 3R Centre Programme in Pekan, Pahang), DANIDA SWMC (2010);
  - ✓ “Source Separation of Food Waste from Hawkers – Turning Waste into Compost” (Creating Awareness and Participation in Recycling among Hawkers in Subang Jaya), DANIDA SWMC (2010); and
  - ✓ “Survey on Participation Rates in Scheduled Collection of Bulky and Green Waste in Majlis Bandaraya Melaka Bersejarah (MBMB)”, DANIDA SWMC (2009);
8. Conducted surveys, studies and developed reports (see below) for DANIDA-Solid Waste Management Component:
  - ✓ “Study on Rural Household Waste Management in Peninsular Malaysia”, DANIDA SWMC (2010);
  - ✓ “Survey on Existing Practices of Private Waste Transporters in Melaka”, DANIDA SWMC (2009);
  - ✓ “Survey on Waste Amount, Storage Capacity and Waste Density in Landed Residential Areas”, DANIDA SWMC (2009);
  - ✓ “Survey on Existing Solid Waste Management Practices in High-rise Buildings, DANIDA SWMC” ( 2009);
  - ✓ “Good Practices on Solid Waste Management in Malaysia”, DANIDA SWMC (2009); and
  - ✓ “Survey on Generation of Non-Hazardous Industrial Wastes in Selected Industrial Areas in Melaka”, DANIDA SWMC (2008).
9. Planed and designed of waste audit in boarding schools in Marang District. MHLG/DANIDA Solid Waste Management Component. (Feb 2006-Jun 2008).
10. Involved in the development of a handbook titled: “Guideline for Landfill Data Updating for Ministry of Housing and Local Government” (Nov 2007 – Jun 2008).
11. Involved in the development of indicators related to solid waste management in Malaysia (2006).
12. Conducted Cost Benefit Assessment of Organic Waste Technologies for hotels and university in Penang, funded by the Asian Productivity Organisation (APO), Japan (Dec 2004-July 2005).
13. Developed a handbook titled: Guidelines for Illegal Dumping Monitoring and Waste Composition Analysis” (2005).
14. Developed a handbook for Implementation of 3-R in Schools (2005).
15. Set up public-private-NGO partnership in establishing a functioning sustainable 3R (Reduce, reuse and recycle) centre in Kuching, Sibu, Miri of Sarawak (2004).
16. Engaged stakeholders including businesses, schools, NGOs etc. in solid waste management through the Local Agenda 21 programme in Miri.



### ***Water/ River Data Management and Quality Reporting***

1. State of River Reporting 2008 for Sungai Selangor, Sungai Langat and Sungai Klang, State of Selangor (2009-2010).
2. State of River Reporting 2006 for Sungai Selangor and Sungai Kedah for DANIDA-IRBM (Nov 2006- Aug 2007).
3. Sarawak River Quality Report, Natural Resources and Environment Board Sarawak (2005-2006).
4. River baseline study for a series of rivers in Peninsula Malaysia and Sarawak (2003-2005).
5. River Basin Information Management System development for National Register of River Basin Project for DID (2005-2006).
6. River Basin GIS development for National Register of River Basin Project for DID (2005-2006).
7. Environmental data management system for integrated environmental management for Sarawak State Government (2003- present).
8. Data management on solid waste management for Ministry of Housing and Local Government / DANIDA Solid Waste Management Component (SWMC) (2006-Dec 2010).
9. DANIDA Partnership Facility Project Solid Waste Management Data Reporting and Quality Assured System in Malaysia (MYWASTE) DANIDA Partnership with Veksebo on data reporting for Ministry of Housing and Local Government (Jan 2008-Oct 2010).
10. GeoEnviron integrated data management system implementation support for State of Sarawak (2004-present).
11. Study on the options for integrating centralized wastewater system with Ecological Sanitation system and other emerging wastewater system for Kuching. Natural Resources and Environmental Board, Sarawak/ Chemsain Konsultant/ COWI Consult International & Associates (Oct 2005-Nov 2006).
12. Contributed in the development of a handbook titled: "Guideline for Costing Options for Integrated Wastewater Treatment System using Ecological Sanitation" (Jan -Sep 2006).
13. Wastewater improvement at Permai Rainforest Resort. Management of Permai Rainforest Resort, Damai Santubong (Nov 2005-2006).

## Paper Presentation/ Seminar



1. Presenter in “Biomass Conference 2011”, Sheraton Imperial Hotel Kuala Lumpur (15-16 Mar 2011).
2. Trainer in “MYCDM workshop”, NRE (14 Feb 2011).
3. Exhibitor in “International Greentech & Eco Products Exhibition & Conference Malaysia 2010 (IGEM)”, KLCC (14-17 Oct 2010).
4. Speaker in “CDM Awareness Workshop 2010”, Merdeka Palace Hotel & Suite, Sarawak (5 Oct 2010).
5. Trainer in “CDM Training: Capacity Enhancement on Assessment & Demonstration of Additionality & PDD Development”, Malaysia Green Technology Corporation (MGTC) (23 Aug 2010 & 22-23 Sep 2010).
6. Exhibitor for “Green Tech Asia 2010”, Malaysia International Convention Centre, KL (22-25 Apr 2010).
7. Panel of Judges in “University of Malaya’s Inter-faculty Environmental Competition 2010”, University of Malaya (March 2010).
8. Exhibitor in “The National Palm Oil Small Renewable Energy Programme Seminar (POSREP Seminar)”, Promenade Hotel, Kota Kinabalu (11 Mar 2010).
9. Secretariat for “DANIDA-SWMC Community Initiative Workshop”, Holiday Inn Glennmarie Shah Alam (26-27 Jan 2010).
10. Co-organiser with Veksebo (Denmark) with supported by NREB Sarawak for “Workshop on Web-Based Solid Waste Reporting System for Sarawak”, Pullman Hotel, Kuching, Sarawak (11 Dec 2009).
11. Presenter in “Power-Gen Asia 2009”, Bangkok, Thailand (7-9 Oct 2009).
12. Speaker in “National Renewable Energy Summit 2009 – Tapping Opportunities (REneW 2009)”, Grand Margherita Hotel, Kuching, Sarawak (18-19 Aug 2009).
13. Panel Speaker in “Carbon Markets Asia 2009”, Kuala Lumpur (23-24 Jun 2009).
14. Speaker in “Assessment of Financial Feasibility on CDM Projects to the CDM Energy Secretariat”, Zero Emission Building, Bangi (24 Apr 2009).
15. Poster presenter in “ISWA/WMRAS World Congress 2008”, Singapore (3-6 Nov 2008).

16. Panel Speaker in “Regional e-Waste Management Conference 2007”, Grand Plaza Parkroyal Hotel, KL (27-28 Aug 2007).
17. Presenter in “Map Asia 2007”, Kuala Lumpur Convention Centre (Best Paper Presentation Award) (14-16 Aug 2007).
18. “The Sarawak’s CDM Proposal for Utilization of Animal Waste for Energy”, by Mr. Soon Hun Yang, Dr. Chin Vui Chieng and Mr. Jong Chin Fei, International Conference on CDM, Sarawak (24-25 Jan 2007).
19. Speaker in “Executive Workshop on Engaging Private Sectors in CDM”, Westin Hotel, Kuala Lumpur (13 Dec 2005).
20. Presenter in “Assessment of CDM Potential in Palm Oil Sectors”, International Natural Resources and Environment Conference, Kuching, Sarawak (28-29 Nov 2005).
21. Speaker in “Energy: A new core product for the palm oil sector?!” , International Palm Oil Congress (PIPOC) Kuala Lumpur (28 Sep 2005).
22. Speaker in CDM Workshop for Palm Oil Sector in Malaysia (11 Jul 2005).
23. Speaker in Exploring Cooperation in CDM Implementation in ASEAN, 2<sup>nd</sup> Regional Workshop, Kuala Lumpur (23-24 Feb 2005).
24. Speaker in Colloquium on CDM Potential in the Waste Sector, Ministry of Energy, Water and Communications, Malaysia (26 Jan 2005).
25. Speaker in Asian CDM Investors Forum, Manila, Philippines (27-29 Oct 2004).
26. Presenter in “CDM Prospect in Malaysia”, Asian Regional CDM Investors Forum, Manila, Philippines (27-29 Oct 2004).
27. Participation in the 2nd International Symposium on EcoSan in Luebeck, Germany (2003).
28. Training workshop on EcoSan in developing countries, Norway (2003).

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