

East Malaysia

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## Hun-Yang SOON

Nationality	Malaysian																						
Experience	21 years (since 1999)																						
Education	<p><b>2002- 2003 MSc. (Environmental Management and Policy)</b> International Institute for Industrial Environmental Economics (IIIEE), Lund University, Sweden</p> <p><b>1995 -1998 B.Technology (Hons)- (Environmental Engineering)</b> Massey University, New Zealand</p>																						
Employment Status	Founder (Chief Executive Officer / Technical Director)																						
Selected Work Experiences	<p><b>1. Climate Change / Carbon Management / CDM/ Green Technology</b></p> <table border="1"> <thead> <tr> <th>Description</th> <th>Duration</th> </tr> </thead> <tbody> <tr> <td>One-stop services for Bukit Tagar Sanitary Landfill Gas Recovery and Utilisation Project:-                             <ul style="list-style-type: none"> <li>• CDM registration/documentation/ monitoring and reporting</li> <li>• <b>planning and documentation</b> towards successful Power Purchase Agreement (REPPA) application and Feed-in-tariff (FiT) application</li> <li>• <b>Project Management</b> Consultancy for the project.</li> </ul> </td> <td>2008 - ongoing</td> </tr> <tr> <td>Carbon Emissions in Malaysia's Construction Industry Study for CIDB Malaysia</td> <td>Oct 2019 – Jun 2020</td> </tr> <tr> <td>GHG Reporting 2019 for RHB Group</td> <td>Jan – Jun 2020</td> </tr> <tr> <td>The Study of Greenhouse Gas Benefits of the Mass Rapid Transit (MRT) Sungai Buloh Kajang Line</td> <td>On-going</td> </tr> <tr> <td>Iskandar Malaysia Greenhouse Gas Inventory 2017 for Iskandar Regional Development Authority (covered sectors: stationary energy, transportation and waste)</td> <td>Oct 2018 – Feb 2019</td> </tr> <tr> <td>Sustainability report (GHG reporting) for KUB-Berjaya Enviro Sdn Bhd and KUB-Berjaya Energy Sdn Bhd</td> <td>May 2018</td> </tr> <tr> <td>GHG Inventory 2016 for Iskandar Malaysia for Iskandar Regional Development Authority (IRDA) (covered sectors: stationary energy, transportation and waste)</td> <td>Jul – Dec 2017</td> </tr> <tr> <td>Development of waste GHG calculation for KPKT/UNDP</td> <td>Dec 2016 – Feb 2017</td> </tr> <tr> <td><b>Carbon Monitoring Project</b> for Iskandar Malaysia for Iskandar Regional Development Authority (IRDA)(covered sectors: stationary energy, <b>transportation</b> and waste)</td> <td>Jun – Dec 2016</td> </tr> <tr> <td>Assisted Client in Participating Pilot Auction Facility for Methane and Climate Change Mitigation initiated by The World Bank.</td> <td>May 2015 - Sep 2016</td> </tr> </tbody> </table>	Description	Duration	One-stop services for Bukit Tagar Sanitary Landfill Gas Recovery and Utilisation Project:- <ul style="list-style-type: none"> <li>• CDM registration/documentation/ monitoring and reporting</li> <li>• <b>planning and documentation</b> towards successful Power Purchase Agreement (REPPA) application and Feed-in-tariff (FiT) application</li> <li>• <b>Project Management</b> Consultancy for the project.</li> </ul>	2008 - ongoing	Carbon Emissions in Malaysia's Construction Industry Study for CIDB Malaysia	Oct 2019 – Jun 2020	GHG Reporting 2019 for RHB Group	Jan – Jun 2020	The Study of Greenhouse Gas Benefits of the Mass Rapid Transit (MRT) Sungai Buloh Kajang Line	On-going	Iskandar Malaysia Greenhouse Gas Inventory 2017 for Iskandar Regional Development Authority (covered sectors: stationary energy, transportation and waste)	Oct 2018 – Feb 2019	Sustainability report (GHG reporting) for KUB-Berjaya Enviro Sdn Bhd and KUB-Berjaya Energy Sdn Bhd	May 2018	GHG Inventory 2016 for Iskandar Malaysia for Iskandar Regional Development Authority (IRDA) (covered sectors: stationary energy, transportation and waste)	Jul – Dec 2017	Development of waste GHG calculation for KPKT/UNDP	Dec 2016 – Feb 2017	<b>Carbon Monitoring Project</b> for Iskandar Malaysia for Iskandar Regional Development Authority (IRDA)(covered sectors: stationary energy, <b>transportation</b> and waste)	Jun – Dec 2016	Assisted Client in Participating Pilot Auction Facility for Methane and Climate Change Mitigation initiated by The World Bank.	May 2015 - Sep 2016
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Local consultant for UK Prosperity Fund support for a Low-Carbon Energy Programme in South East Asia	Aug – Nov 2016
National Appropriate Mitigation Action (NAMA) Potential for Mitigation Efforts in the Cement and Iron/Steel Sectors in Malaysia for Ministry of Natural Resources and Environment, funded by UNDP.	Jun 2015 – Feb 2016
NAMA Facility Application: Support to Integrated E-Waste Management System for State of Sabah, Malaysia	April – July 2015
National Corporate GHG Reporting Programme (NCGRP/MYCarbon) for Ministry of Natural Resources and Environment, funded by UNDP.	Aug 2013-Mar 2015
GHG Consultant for City for preparation of project document for Green Technology Application for the Development of Low Carbon Cities (GTALCC).	Jul – Sep 2014
Best Management Practices to Reduce Operational GHG emissions from Palm Oil Production for Roundtable for Sustainable Palm Oil (RSPO).	Dec 2012-May 2013
UNEP ASEAN Climate Change Action Database (ACCAD) project, funded by United Nations Environment Programme (UNEP-ASEAN).	Jul – Aug 2012
CDM monitoring services for Konzen Clean Energy SB's Rinwood POME biogas projects in Mukah, Sarawak.	2011 - 2013
PoA development for POME Biogas and Power Generation in Malaysia and Indonesia.	Dec 2011 – 2014
CDM project development for POME methane recovery and utilisation at QL Palm Oil Mill No.1 in Tawau, Sabah. 2 x 1.2 MW gas engine installed and commissioned.	Aug 2011 - May 2013
CDM project development for EFB Stabilised Biomass (Pelleting) at QL Palm Oil Mill No.1 in Tawau, Sabah	Aug 2011 - May 2013
One-stop service for Sungai Kahang POME Biogas Recovery for Energy Project in Johor: <ul style="list-style-type: none"> <li>• Feasibility study</li> <li>• Technology solution reviews for POME biogas recovery and power generation</li> <li>• CDM registration/documentation/ monitoring and reporting</li> </ul>	2007 – Dec 2013
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
Conducted study on CDM Potential in Waste Sectors in Malaysia, funded by DANIDA and Malaysian Energy Centre	Aug 2004 – Mar 2005
FiT application for Tex Cycle Biomass Gasification and Power Generation Project	Feb 2016 - ongoing
FiT application for QL Tawau Biogas 2 MW grid connection power generation project from POME	2016 – Jul 2017
Palm Oil Mill Effluent (POME) Biogas Power Generation at Sg. Terah Palm Oil Mill, Gua Musang for Protasco Berhad	Mar – May 2017
Rapid Evaluation of Building Sector Energy Efficiency Project (BSEEP) for UNDP GEF	Mar-Apr 2013

Description	Duration
Biodiesel Production from Inedible Waste Oil and Fats - feasibility assessment, PDD development, validation and registration	Apr 2010 – Mar 2011
National Expert for Terminal Evaluation of the Biomass-based Power Generation and Cogeneration (BioGen) in the Palm Oil Industry (BioGen) Project – Phase I for UNDP.	2010
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
Development of “A Guide to Energy Efficiency Management in Sewage Treatment” for Indah Water Konsortium (IWK) Sdn. Bhd.	Dec 2008 – Jun 2010
National Specialist to the Ministry of Natural Resources and Environment / UNDP/GEF/ Eco-Factor. National Capacity Needs Self-Assessment Project – Capacity Development Action Plans for UNFCCC.	Aug 2007- 2008
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
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	2006 – Mar 2011
Conducted assessment on Strategic Environmental Assessment on Palm Oil based Diesel, DANIDA Renewable Energy & Energy Efficiency Project	Dec 2004
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
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
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
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 – Mar 2005
<b>2. Solid Waste Management</b>	
Description	Duration
Consultancy for the Putrajaya Waste and Minimisation and Management Action Plan for Green Technology Application for the Development of Low Carbon Cities (GTALCC), Sustainable Energy Development Authority (SEDA)	Aug 2019 – Mar 2020
The Study on Integrated Solid Waste Management in Sarawak for Natural Resources and Environment Board Sarawak	Dec 2017 – May 2019

Description	Duration
Local support to Waste to Energy Plant project in Kuala Lumpur	2016 - 2017
MRCB landfill Upgrade and Master Plan Study	Nov 2016 – Jun 17
Safe landfill closure plan for BAKAJ landfill, RAPID project, Pengerang, Johor for Menta Construction Sdn Bhd	Aug 2016 – Nov 2016
Study of Potential Private Waste, Bio-drying and Residue Waste Management for Proposed Waste to Energy Plant in Kuala Lumpur for MRCB.	2014 - 2016
Study on E-Waste Flow and Inventory for Household E-Waste Management in Malaysia for DOE/JICA.	April 2016 – Aug 2016
Review and Assessment of Existing Small Scale Incinerators in Islands and Highland for National Solid Waste Management Department of Ministry of Urban Wellbeing, Housing and Local Government.	Jul – Dec 2015
Review of Solid Waste Management in Selangor and Potential Municipal Solid Waste Technologies for Welhas Resources Sdn Bhd.	Sep – Nov 2015
Feasibility Study for Landfill Mining, Rehabilitation and Redevelopment for Jelutong Dumpsite for MRCB.	July – Sep 2015
Study of Alternative Fuel for Proposed Waste to Energy Plant in Kuala Lumpur for MRCB.	Oct - Nov 2014
Study of Potential Waste Type and Costing for Proposed Waste to Energy Plant in Kuala Lumpur for MRCB.	Oct - Nov 2014
Feasibility Study for Integrated Modern Pig Farming in Selangor (Biogas and waste management) for Selangor Economic Planning Unit / PPAD.	Jul-Sep 2014
Study on Integrated Management of Electrical & Electronic Waste in Sabah. Sabah Environmental Protection Department	Oct 2013 – Oct 2014
Solid waste composition study in Dalat and Mukah District Council, Mukah Division, Sarawak for Natural Resources and Environment Board (NREB) Sarawak.	Mar – Dec 2013
Stage 2 Survey on Public Attitude to E-waste in Penang Island. “The Project for Model Development for e-waste Collection, Segregation and Transportation from Households for Recycling” implemented by DOE with cooperation from MPPP, funded by JICA.	Oct - Nov 2012
The study on the existing practice of solid waste recycling in Malaysia. Department of National Solid Waste Management Malaysia / GSR Environmental Consultants Sdn. Bhd./PE Research.	Nov 2011 – Aug 2012
Stage 1 Survey on Public Attitude to E-waste in Penang Island. “The Project for Model Development for e-waste Collection, Segregation and Transportation from Households for Recycling” implemented by Department of Environment (DOE) with cooperation from Municipal Council of Penang Inland (MPPP), funded by Japan International Corporation Agency (JICA).	Nov - Dec 2011
Formulation of Food Waste Plan for Greater Kuala Lumpur and Klang Valley for Ministry of Housing and Local Government (MHLG)/ Malaysian Environmental Resources Centre Sdn. Bhd. (MERC).	Jul 2011 – Jan 2012
Conducted study on scrap tyres management for Peninsular Malaysia. Department of National Solid Waste Management Malaysia/ Chemsain Konsultant Sdn. Bhd.	Mar-Jul 11

Description	Duration
<p>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:</p> <ul style="list-style-type: none"> <li>✓ “Composting – Closing the Loop at Home” (A Household Home Composting Programme in Majlis Bandaraya Petaling Jaya (MBPJ)), DANIDA SWMC (2010);</li> <li>✓ “Involving the Community in 3R” (Community 3R Centre Programme in Pekan, Pahang), DANIDA SWMC (2010);</li> <li>✓ “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</li> <li>✓ “Survey on Participation Rates in Scheduled Collection of Bulky and Green Waste in Majlis Bandaraya Melaka Bersejarah (MBMB)”, DANIDA SWMC (2009);</li> </ul>	2006 - 2010
<p>Planned and designed of waste audit in boarding schools in Marang District. MHLG/DANIDA Solid Waste Management Component.</p>	Feb 2006-Jun 2008
<p>Involved in the development of a handbook titled: “Guideline for Landfill Data Updating for Ministry of Housing and Local Government”</p>	Nov 2007 – Jun 2008
<p>Conducted surveys, studies and developed reports (see below) for DANIDA-Solid Waste Management Component:</p> <ul style="list-style-type: none"> <li>✓ “Study on Rural Household Waste Management in Peninsular Malaysia”, DANIDA SWMC (2010);</li> <li>✓ “Survey on Existing Practices of Private Waste Transporters in Melaka”, DANIDA SWMC (2009);</li> <li>✓ “Survey on Waste Amount, Storage Capacity and Waste Density in Landed Residential Areas”, DANIDA SWMC (2009);</li> <li>✓ “Survey on Existing Solid Waste Management Practices in High-rise Buildings, DANIDA SWMC” (2009);</li> <li>✓ “Good Practices on Solid Waste Management in Malaysia”, DANIDA SWMC (2009); and</li> <li>✓ “Survey on Generation of Non-Hazardous Industrial Wastes in Selected Industrial Areas in Melaka”, DANIDA SWMC (2008).</li> </ul>	2006 – 2010
<p>Management study on amount, generation and flow of electronic and electrical (EE) waste in Singapore and Malaysia, funded by Ministry of Environment, Japan</p>	2007
<p>Involved in the development of indicators related to solid waste management in Malaysia</p>	2006
<p>Waste Minimisation (recycling) Master Plan Study; sub-consultant assisting in generating material flow of various recyclable items in East Malaysia and identification of recycling pilot project</p>	2005 – 2006
<p>Conducted Cost Benefit Assessment of Organic Waste Technologies for hotels and university in Penang, funded by the Asian Productivity Organisation (APO), Japan</p>	Dec 2004-July 2005

	Description	Duration
	Assessment of fast rate composting technologies for organic food waste and household composting option (compost bin, vermin-composting etc.) in Kuching	2005
	Developed a handbook titled: Guidelines for Illegal Dumping Monitoring and Waste Composition Analysis”	2005
	Developed a handbook for Implementation of 3-R in Schools	2005
	Preparation of Technical Working on SWM in Malaysia for DANIDA/EPU Malaysia SWM component, including hazardous waste policy, regulation and institution review.	2004
	Solid Waste Management in Kuching, Sarawak– DANIDA/Sarawak Government: Urban Environmental Management System Project, Sarawak	2001-2002
	Management of the Sustainable Urban Development Project in Kuching City, Sarawak. Key experiences gained include environmental planning and management especially in urban areas related to waste management and water quality sector, legal and institutional aspects, capacity development, environmental technologies, monitoring and reporting, database development, project management & report writing skills	1999-2002
	<b>3. Data and Web Application Development</b>	
	Description	Duration
	Underground utilities data management for KUJ	Jul 2017 - ongoing
	Integrated Asset Management System (IAMS) Using GE in Sarawak JKR	June 2016 – ongoing
	Development of an Integrated Environmental System based on GeoEnviron Database Management System for Sarawak Energy Berhad	2012 - 2014
	GeoEnviron implementation support for State of Sarawak	2008 – 2013
	Development of MYCarbon web portal for National Carbon Disclosure Program for Ministry of Natural Resources and Environment, funded by United Nations Development Programme (UNDP)	Apr 2012 – Nov2012
	Development of Malaysia CDM Registry IT Portal for MGTC (Malaysia Green Technology Corporation)	Aug 2010 – 2011
	DANIDA Partnership Facility Project: Solid Waste Management Data Reporting and Quality Assured System in Malaysia (MYWASTE) for National Solid Waste Management Department	Jan 2008 – Oct 2010
	River Basin Information Management System (RB-IMS) development for National Register of River Basin Project for DID Malaysia	2005 - 2006
Affiliation	<ol style="list-style-type: none"> <li>1. International Solid Waste Association (ISWA) - International Waste Manager (IWM) (June 2017 – present)</li> <li>2. ISWA – Individual member (2000- present)</li> <li>3. Waste Management Association of Malaysia (WMAM) – Member (2007-present)</li> <li>4. Registered with Board of Engineer Malaysia</li> </ol>	

	<ol style="list-style-type: none"> <li>5. Environmental Impact Assessment (EIA) Assistant Consultant (Wastewater/ Water Quality and General Environmental Management), Department of Environment (DOE), Malaysia – AS0643</li> <li>6. Environmental Impact Assessment (EIA) Consultant (Individual), Natural Resources and Environment Board, Sarawak, Malaysia – NREB/1/00625</li> <li>7. Institution of Engineers (IEM) Malaysia – Graduate Member (2000-present)</li> <li>8. Environmental Management &amp; Research Association (Ensearch) – Member (1999-present) - member of Cleaner Production Interest Group, Water Management Interest Group, Environmental Management Interest Group</li> <li>9. Member, Association of Environmental Consultants Sarawak</li> </ol>
<p>Language ability</p>	<ol style="list-style-type: none"> <li>1. English (Writing and Speaking - Excellent)</li> <li>2. Mandarin and several chinese dialects (Writing and Speaking - Excellent)</li> <li>3. Bahasa Malaysia (Writing and Spoken - Good)</li> </ol>
<p>Referees</p>	<ol style="list-style-type: none"> <li>1. Mr. Ib Larsen, ex-Chief Technical Advisor for DANIDA / Ministry of Housing and Local Government Solid Waste Management Component. (phone : +60-198570423 or e-mail : iblarsen1@gmail.com)</li> <li>2. Mr. Peter Sawal, ex-Controller of Environmental Quality, Natural Resources and Environment Board, Sarawak, Malaysia. (e-mail: bakayong58@gmail.com)</li> <li>3. Mr. Asfaazam Kasbani, Assistant Resident Representative (Energy and Environment), UNDP Malaysia. (phone: +60-3-20915133 or e-mail: asfaazam.kasbani@undp.org)</li> </ol>