



SOPPOA POMtec 2023

**Palm Oil Milling Technology,
Exhibition & Conference**

Theme:

**Toward Sustainable & Value-
Added Business Operation**

8-9 August 2023

Imperial Hotel, Miri, Sarawak

Moderator & Speaker

SESSION 1



MODERATOR 01

Paul Wong Hee Kwong

Group Chief Executive Officer Sarawak Oil Palms Bhd

Academic Qualifications
Chartered Accountant (Malaysia)

- Member of the Malaysian Institute of Accountants (MIA).
- Fellow Member of Association of Chartered Certified Accountants (FCCA), UK.

Work Experiences / Area of Expertise / Interest

- He worked in KPMG, EON Finance Berhad and a Government linked company before joining SOPB Group as the Group Finance Manager and Company Secretary in April 1996.
- His professional experiences include accounting, secretarial, management consultancy, taxation, and banking and finance.
- Currently, he is a Council Member, Executive Committee Members of MPOA and Chairman of Marketing and Promotion Main Committee of Malaysian Palm Oil Association ("MPOA").
- He is also a Member of Board of Trustees and Chairman of Marketing and Promotion of Malaysian Palm Oil Council ("MPOC").
- He is also a Council Member of Sarawak Oil Palm Plantation Owners Association ("SOPPOA").



Datuk Dr. Ahmad Parveez Bin Ghulam Kadir, FASc.

Director General Malaysian Palm Oil Board (MPOB)



SPEAKER

Revolutionizing of Malaysia Palm Oil Milling Industry: Current Status, Challenges, Opportunities and Way Forward

Datuk Dr. Ahmad Parveez is currently the Director General of Malaysian Palm Oil Board (MPOB). He was appointed as Fellow of Academy Science Malaysia in 2016 and Member of National Biosafety Board (2018 – 2024). In July 2021, he was appointed as a Member of the Science Council of Malaysian Agricultural Research & Development Institute (MARDI). He sits on various other Boards; Board of Trustee of Malaysian Palm Oil Council (MPOC, 2019 -2024), Board of Trustee of Malaysian Palm Oil Certification Council (MPOCC, 2019 - 2023) and Board of Trustee of Institute of Malaysian Plantation and Commodities (IMPAC). Datuk Dr. Ahmad Parveez was previously the Chairman of Genetic Modification Advisory Committee under the National Biosafety Board (GMAC, 2010 – 2018). In October 2021, Datuk Dr. Ahmad Parveez was appointed as an Adjunct Professor in the Department of Biological and Agricultural Engineering, Faculty of Engineering, University Putra Malaysia (UPM). He is also very active in various professional societies including as the President of International Society for Oil Palm Breeders (ISOPB), Chairperson for the Asian Section of American Oil Chemists' Society (AOCS) and Board Member of The International Society of Biocatalysis and Agricultural Biotechnology (ISBAB).

Datuk Dr. Ahmad Parveez was born in Taiping, Perak and obtained his secondary education at Sekolah Menengah King Edward VII, Taiping. He graduated with Bachelor of Science (UKM) in Genetics, Master of Science (UKM) in Molecular Genetics and a PhD (UPM) in Plant Genetic Engineering. He has 33 years of experience in Plant Molecular Biology, Genetic Engineering and Biosafety. He developed world first transgenic oil palm in 1997. His interest is in genetic modification of oil palm, biosafety of living modified organisms and oil palm sustainability.

He has obtained a number of prestigious awards both locally and internationally. He has 17 patents filed and six of them have been granted. He has authored and co-authored more than 100 papers in refereed journals and more than 250 conference papers.

Ts. Dr. Sang Yew Ngin

**Undersecretary
Biofuel Division**

Ministry of Plantation and Commodities



SPEAKER

Scaling Up the Circular Economy Through Agricommodity Biomass

YBrS Ts Dr Sang Yew Ngin is currently serves as Undersecretary, Biofuel Division, Ministry of Plantation and Commodities (KPK) since 17 June 2019.

YBrS. Ts Dr Sang holds a Bachelor of Engineering (Hons) and a Master of Environment from Universiti Putra Malaysia (UPM). He obtained his Doctoral Degree (PhD) from Universiti Tenaga Nasional (UNITEN) through the Energy Economics Chair Scholarship under the Malaysia Electricity Supply Industry Trust Account (MESITA).

YBrS. Ts Dr Sang is a Professional Technologist (PTech) registered with the Malaysian Board of Technology (MBOT) in addition to being the Exco for PSESIG, Institute of Engineers Malaysia (IEM) since 2015 until now.

YBrS. Ts Dr Sang is also currently serving as a Board Member for Sustainable Energy Development Authority (SEDA) and National Biosafety Board (NBB).

YBrS. Ts Dr Sang was previously working in private sectors in the Palm Oil Milling and Industrial Water & Wastewater Treatment before joining the government sector. He is also has knowledge and expertise in the public policies and administration domain due to his experience and has previously serves in the Ministry of Science, Technology and Innovation (MOSTI) and the Ministry of Energy, Green Technology and Water (KeTTHA).

Yusmarizana Mohd Yusof

Senior Assistant Director

Food Technology and Resource Based Industries Division
Malaysian Investment Development Authority



SPEAKER

Investment Opportunity for Palm Oil Industry in Malaysia

2016 – current Food Technology & Resource Based Industries

2013 – 2015 MIDA Sarawak

2008 – 2012 Industry Support Division

2004 – 2008 MIDA Penang

1997 – 2003 Investment Statistic Division

1996 – 1997 Chemical & Advanced Materials Division

Bachelor of Management (Honour) – 2007

University of Science Malaysia, Penang

Diploma in Public Administration – 1995

University Technology MARA (UiTM), Melaka Branch

Prof. Dr. Patricia King Jie Hung

Deputy Director

Institute of Ecoscience Borneo, UPM Bintulu Campus



SPEAKER

Sustainable Agriculture Solution: The Conversion of Oil Palm Mill Waste into Biofertilizers and Soil Amendment Agents

Prof. Dr. King is an accomplished educator and researcher with an impressive 23 years of experience in the field of microbial ecology, agricultural biotechnology, pest and disease management. Her unwavering passion for promoting the restoration of healthy microbial ecology has fuelled her dedication to advancing the understanding of the microbiome and its critical role in maintaining good health and protecting hosts from infections.

She holds a Ph.D. in Microbiology from the renowned research institution, Universiti Kebangsaan Malaysia, where her research journey began with a focus on microbial ecology, specifically investigating the intricate relationship between plant health, pest and disease, and soil microbiomes. Her primary ecosystem of interest has been the oil palm estate, where she has conducted groundbreaking research.

Prof. Dr. King's innovative work in promoting healthy microbial ecology in agricultural ecosystems has garnered widespread recognition, earning her numerous research grants and prestigious awards. Her excellence in teaching and research has been acknowledged with accolades such as the Vice Chancellor Fellowship Award for Excellent Teaching in Applied Science, solidifying her reputation as an exceptional educator.

Beyond her academic achievements, Prof. Dr. King's expertise and reputation have opened doors for her to serve as a visiting scientist and lecturer at esteemed universities in Canada and China. These international collaborations have further elevated her standing as a respected academic and researcher, facilitating knowledge exchange and fostering global collaboration.

What sets Prof. Dr. King apart is her multidisciplinary approach, bridging the gap between plant health and sustainable agriculture. She recognizes the importance of synergistic solutions to address pressing challenges in both fields and has become a visionary in her ability to integrate diverse perspectives. Her work stands as a testament to her passion for advancing scientific understanding and driving positive change towards a more sustainable future.



SESSION 2

Datuk Dr. Ahmad Parveez Bin Ghulam Kadir, FASc.

Director General Malaysian Palm Oil Board (MPOB)



MODERATOR 02

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Assoc. Prof. Dr. Viknesh Andiappan

Faculty of Engineering, Computing and Science
Swinburne University of Technology Sarawak



SPEAKER

Current Strategies and Future Opportunities for Low Carbon Operation in Palm Oil Milling Processes

Viknesh Andiappan is an Associate Professor at Swinburne University of Technology Sarawak Campus. He completed his Ph.D at the University of Nottingham, Malaysia Campus within two and half years. His area of specialisation centres on developing mathematical models to design and optimise net-zero energy systems and supply chains. His research interests also include energy systems optimisation and energy planning for greenhouse gas emission reduction. His work also aims to create software, techniques and algorithms to solve large-scale problems relevant to industries as wide-ranging as agriculture, water treatment, petrochemicals, and power generation. Dr. Andiappan is well-published and well-cited for a young researcher (over 90 publications with an h-index of 17) and presented several papers at various conferences.

Dr. Andiappan has also established a strong collaboration with well-known international researchers from Malaysia, the Philippines, India, Taiwan, Qatar and the United Kingdom. In 2020, he was awarded the IBAE Young Researcher of the Year Award for his research contributions. After this, he was awarded the Processes Journal 2022 Young Investigator Award and recently entered the world's Top 2% of Scientists for a single year. He actively serves on several journal editorial boards. For instance, he is an editorial board member for Process Integration & Optimization for Sustainability (Springer Nature) and International Journal of Energy Research (Wiley-Hindawi), a review editor for Frontiers in Sustainability, Sustainable Chemical Process Design (Frontiers) and a reviewer board member for Processes Journal (MDPI).





SPEAKER

Ts Dr Jibrail Kansedo

Curtin University Malaysia

Techno-economic Analysis of biohydrogen production from palm oil biomass waste

Ts Dr Jibrail Kansedo is a highly committed Senior Lecturer with almost 9 years of experiences at the Department of Chemical and Energy Engineering, Faculty of Engineering and Science, Curtin University Malaysia. He graduated with Bachelor of Engineering (Hons), Master of Science and Doctor of Philosophy (PhD) in Chemical Engineering from Universiti Sains Malaysia in 2006, 2009 and 2015, respectively. Since joining Curtin, he achieved a lot in his career both in academic and research. He has published numerous high impact factor journals, conference proceedings and book chapters, which resulted in his high Web of Science (WOS) h-index of 17 with more than 2,000 citations. He also has secured multiple internal and external research grants, either as Principal or Co-Investigator, including collaborations with other universities with an amount of more than RM870,000. Last year he was awarded the Curtin's Top Contributor for External Project (Curtin Research and Development Award). He was also awarded the Best Lecturer (Student Choice Award) for Chemical Engineering in 2018 and 2019. Currently he serves as the Chair for Safety and Health Committee in the Faculty of Engineering and Science, Curtin University Malaysia. He is affiliated and registered with multiple bodies including BEM (Graduate Engineer), IEM (Graduate Engineer), MBOT (Professional Technologist), IChemE (Associate Member) and IAENG (Member). He is also a certified Fellow of HEA.

In research, his expertise is mainly in the field of renewable energy specifically biodiesel and biohydrogen. In fact, his Master and PhD studies were focused on biodiesel production utilizing both palm oil and the non-edible sea mango (*Cerbera odollam*) oil. He is also currently doing research on bio-polymer/bio-plastic production, specifically on the polyhydroalkanoates (PHA) production. His other research activities including the utilization of biomass wastes including palm oil biomass waste to produce useful products such as biogas, biohydrogen, and other value-added products such as glucose and xylose.

Assoc. Prof. Dr. Bridgid Chin Lai Fui

Chair of Student and Alumni Relations Committee
Curtin University Malaysia



SPEAKER

Conversion of Palm Oil Biomass and Plastic Waste Mixtures for Hydrogen Enriched Syngas Production from Co-Gasification Process

Dr. Bridgid Chin is an Associate Professor for Chemical and Energy Engineering Department for Curtin University Malaysia. She has successfully obtained her PhD from Universiti Teknologi PETRONAS (UTP) in year 2015.

She is recognized for her creative contributions within the field of green technology particularly on the conversion of biomass and municipal solid wastes to renewable energy via thermochemical conversion which firmly focused on solving real-world problems particularly on mitigating climate change and developing clean energy.

She has also published more than 60 international journal publications and presented several papers in national and international conferences. She was previously involved in 6 international grants i.e. International Foundation of Science (IFS) 2017, ASEAN Science and Technology Fund (ASTIF) 2019, and Japan-ASEAN Science, Technology and Innovation Platform (JASTIP-Net) 2019, 2021, 2022, and 2023 which involved in gasification and pyrolysis processes. She recently won the Business Event Sarawak (BE Sarawak) in Business Excellence Award. She was previously shortlisted as one of the finalists for the IChemE Malaysia Awards under the category of Young Chemical Engineer in Research Award in 2015.

Dr. Sivasangar Seenivasagam

Department of Science and Technology

Faculty of Humanities

Management, and Science, UPM Bintulu Campus



SPEAKER

Bio-lubricant and Green Diesel Production from Bio-Waste Derived from Palm Oil Industry

Dr. Sivasangar is a senior lecturer with a specialization in heterogeneous catalysis. He completed his Ph.D. in Catalysis Chemistry at Universiti Putra Malaysia (UPM) in 2015. With a profound passion for the field, he has dedicated his career to the advancement of biofuels and renewable energy. His expertise lies in the catalytic conversion of biomass to biofuels, with a specific focus on metal oxides and MOF (Metal-Organic Framework) synthesis and their applications in various chemical reactions. His research findings have been published in numerous prestigious journals, and he has presented his work at various national and international conferences.

SESSION 3

Prof. Dr. Patricia King Jie Hung

Deputy Director

Institute of Ecoscience Borneo, UPM Bintulu Campus



MODERATOR 03

Prof. Dr. King is an accomplished educator and researcher with an impressive 23 years of experience in the field of microbial ecology, agricultural biotechnology, pest and disease management. Her unwavering passion for promoting the restoration of healthy microbial ecology has fuelled her dedication to advancing the understanding of the microbiome and its critical role in maintaining good health and protecting hosts from infections.

She holds a Ph.D. in Microbiology from the renowned research institution, Universiti Kebangsaan Malaysia, where her research journey began with a focus on microbial ecology, specifically investigating the intricate relationship between plant health, pest and disease, and soil microbiomes. Her primary ecosystem of interest has been the oil palm estate, where she has conducted groundbreaking research.

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Beyond her academic achievements, Prof. Dr. King's expertise and reputation have opened doors for her to serve as a visiting scientist and lecturer at esteemed universities in Canada and China. These international collaborations have further elevated her standing as a respected academic and researcher, facilitating knowledge exchange and fostering global collaboration.

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SPEAKER

Assoc. Prof. Dr Lau Shiew Wei

Curtin University Malaysia



Lignin extraction and Volarisation from Oil Palm Empty Fruit Bunch

Dr. Lau Shiew Wei is currently an associate professor and programme coordinator for the undergraduate chemical engineering course at Curtin University Malaysia, where she has been a faculty member since 2004. She is a Chartered Professional Engineer of Institution of Engineers Australia (CPEng), and a Fellow of Higher Education Academy (FHEA).

Dr. Lau completed her Ph.D. at Curtin University, Western Australia, and both her Master and undergraduate studies at Universiti Teknologi Malaysia, Johor. Her research interests lie in the area of wastewater and sludge treatment, biomass utilisation, sustainable development, and digital innovation in learning and teaching. As an experienced and instrumental educator, her career aspiration in higher education is to expand her professional practices in teaching and supporting student learning as well as in engineering research, and to engage the young generation in environmental sustainability issues.



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Ir. Dr. Chew Jiuang Jing

Deputy Head of School of Engineering, Swinburne



SPEAKER

Chemical Engineering and the Sustainable Oil Palm Biomass Industry – Recent Advances and Perspectives for the Future

Ir. Dr. Jiuang Jing Chew is a senior lecturer currently attached to the Chemical Engineering program in Swinburne Sarawak. She is also the Deputy Head of School in the School of Engineering and Science. Her main research interest includes converting biomass waste for biofuel and bioenergy and low-cost materials and technologies for environmental remediation.

She is currently supervising and co-supervising 7 postgraduate students specialising in the area of sustainable energy, environment, and materials. She has graduated 4 PhD and Master students in the past 5 years. Her research contributions have resulted in her being awarded the Young Woman Researcher in Biofuel and Bioenergy under Venus International Foundation in 2023.

Dr. Sujan Debnath

Associate Professor

Department of Mechanical Engineering,
Faculty of Engineering and Science
Curtin University Malaysia



SPEAKER

Palm Oil Milling Waste-Based Biopolymer-Composite on Research

Dr. Sujan is an Associate Professor at Curtin University Malaysia's Department of Mechanical Engineering. He has around 21 years of teaching, research, and industrial experience in Mechanical, Materials, and Manufacturing engineering. Dr. Sujan obtained his PhD from the University of Science Malaysia in 2006 majoring in applied mechanics and heat transfer with specific research focusing on interfacial thermal mismatch stress analysis in electronic packaging. Over the years, he has been working in the area of thermal management in electronic packaging, green composite materials using bio-waste (Palm Oil Milling Waste), nano polymer composites, and nano-enhanced MQL Machining.

In recognition of his contributions to capability building and impact research outcomes, Dr. Sujan has been awarded the High Impact Researcher in 2022. The Scopus h-index of Dr. Sujan is 26 with 3400 citations from over 130 journal papers. He has authored 2 books and 5 book chapters, including a textbook on biomaterial fundamentals. He secured 17 research grants and supervised 6 Ph.D. and 7 MPhil students. As an active participant in the international research community, Dr. Sujan presented 16 keynotes or invited talks at international conferences and organized or chaired more than 11 such events. He has been a practicing chartered professional engineer, endorsed by the Institute of Mechanical Engineers of the United Kingdom, and a Fellow of the Institute of Materials Malaysia (IMM) in recognition of his applied contributions to engineering. Dr. Sujan has been awarded the prestigious Senior Fellow of the Higher Education Academy in 2022.

SPECIAL TOPIC



MODERATOR

Eric Kiu Kwong Seng

Chief Operating Officer
Sarawak Oil Palms Berhad

Qualification

Chairman of Sarawak Oil Palm Plantation Owners Association (SOPPOA)
Board of Trustee of Malaysian Palm Oil Certification Council (MPOCC)
Vice Chairman of MPOA Government Affairs Working Committee (GAWC)
Member of Palm Oil Research and Technical Service Institute (PORTSIM) of MPOB
Exco Member of Malaysia Biodiesel Association (MBA)
Treasurer of Sarawak Business Foundation (SBF)
Technical Committee of Oil Palm Replanting Material of Department of Standards Malaysia
Licensed Company Secretary
Master of Business Administration (Leeds University Business School, Leeds, U.K)
B. Eng (Hons) Manufacturing Engineering & Management (University of Nottingham, UK)

Experience

Ernst & Young, Kuching Sarawak (October 1997 – March 1998)
Sarawak Oil Palms Berhad (April 1998 – Current)

Skills and Professional Experience

Accounting, Secretarial, Management Consultancy, Taxation, and Banking and Finance.

YB Dr. Hj Hazland Abang Hipni

Deputy Minister of Energy and Environmental
Sustainability Sarawak



SPEAKER

AWARDS RECEIVED:

Kesatria Mangku Negara (KMN) - 2018
Sarawak Star Champion (JBS) - 2020

30 YEARS OF POLITICAL ENGAGEMENT:

Voluntarily helping former assemblymen: 1991-1999
UN Committee on Scenarios: 1999-2002
UN Secretary Kpg Senari: 2002- 2005
Deputy Head of PBB Demak Laut Branch : 2005-2008
Deputy Head of PBB Demak Laut Branch : 2008-2011
DEMAK LAUT N5 ASSEMBLY : 2011- 2016
N5 DEMAC LAUT ASSEMBLY : 2016 - 2021
DEMAK LAUT N5 ASSEMBLY : 2021 - NOW
DEPUTY MINISTER OF ENERGY & ENVIRONMENTAL SUSTAINABILITY (JAN 2022 - PRESENT)

PROFESSIONAL EXPERIENCE & ASSOCIATION :

Medical Officer of Sarawak General Hospital : 1990-1991
Sentosa Hospital Medical Officer - 1991-1992
Sarawak State Health Department Medical Officer 1992-1993
Medical Officer of the Government Polyclinic 1993-1994
Private Medical Doctor of Kotaraya Clinic Group : 1994- until now
MBKS Counselor : 2009 - 2011
TEGAS Trust Board Member : 2011- until now
Patron of the Armed Forces Veterans Association, Kuching: 2012 - until now
Patron of Kuching Rugby Club : 2017- until now
Capital Advisor of Demak Laut Bhd : 2018- until now
Patron of Borneo Island Big Bikers Club : 2015 - until now
Patron of Demak Laut Bikers Club : 2015 - until now
Patron of Demak Laut 4X4 Club : 2015 - until now
Patron of Kuching Al-Qur'an Teachers' Association: 2016 - until now

SESSION 4

Assoc. Prof. Ir. Dr. Lim Chye Ing

Associate Dean, External Engagement
Faculty of Engineering and Science
Curtin University Malaysia



MODERATOR 04

Ir. Dr. Lim Chye Ing is the Associate Dean of External Engagement, Faculty of Engineering and Science, Curtin University Malaysia. She is also an associate professor with the Mechanical Engineering Department. She graduated with a BEng (Hons.) Mechanical from Universiti Tenaga Nasional, Malaysia, an MSc in Engineering Design from Loughborough University, United Kingdom, and completed her Doctor of Philosophy – Engineering with Curtin University, Australia.

She is a Professional Engineer with Practicing Certificate in Mechanical Engineering discipline with more than 10-years of working experience in power and O&G industry. She is also a certified Project Management Professional (PMP), and Fellow of Higher Education Academy (FHEA). Her research interest is in the area of cleaner production, sustainability assessment and management, energy efficiency, and eco-design.

She believes engineering education and research shall stay relevant to the needs of the industry and society, and aspire to train industry-ready graduates through experiential learning, and make Curtin Malaysia a community university through active engagement with various stakeholders.

IR. Tian Fung Wang

Econas Sdn Bhd



SPEAKER

Evolution from Incinerator to Thermal Decomposition Plant (TDP)

Ir. Tian Fung Wang is an experienced and qualified Professional Engineer with over 20 years of experience in Plant construction, commissioning and operation. He has vast experience in the construction of Waste to Energy plant. He was the Technical & Project Director in charge of the construction of Indonesia 1st 750 TPD (ton per day) BOT (Build Operate & Transfer) Waste to Energy Plant at Surabaya. Prior to that, he had completed construction and commissioning of Malaysia 1st 100TPD Hazardous Waste to Energy Plant at Negeri Sembilan and Thailand 1st 700TPD BOT Waste to Energy Plant at Phuket. Currently, he is the Technical & Project Director of Econas Energy Sdn. Bhd. responsible for developing Malaysia 3rd Hazardous Waste Treatment Centre at Pengerang, Johor. He is also actively taking part through iTAKE Solutions Sdn. Bhd. in exploring new way of managing waste in Palm Oil Mill industry and implementing it economically. Further to that, Ir. Tian is also providing advisory services in developing WtE Plant in Malaysia and overseas.



SPEAKER

Tan Eng Hau

Founder
Treehouz Asia Sdn Bhd

Palm EFB Pellet: The Lowest Hanging Fruit

Mr. Tan Eng Hau is an engineer by trained majors in Electrical Engineering. Tan's main expertise is in the area of pellet plant consultation, design & build and commissioning. Up to date, he has designed & built more than 19 pellet plants across Southeast Asia, and he has pelletized more than 8 types of biomasses, which include tropical, rubber and planted wood, rice husk, oil palm trunk, palm empty fruit bunch fiber and other types of biomasses in the region.

He has previously served as the Malaysian's representative to ISO/TC 238 Solid Biofuels Technical Committee. He has been guest speaker to Biomass and Sustainability conferences and exhibitions in Malaysia, Indonesia, and China.

Tan is the Secretary-General of Malaysian Biomass Industries Confederation (MBIC) and the Leader of the MBIC's Solid Biomass Special Committee. In his expert capacity, Tan serves as working committee member for developing new standard for Malaysian Sustainable Palm Oil (MSPO) Chain of Custody of oil palm biomass.

Dr. Boey Jin Wern

Managing Director
Vetfeed Nutrition Sdn Bhd



SPEAKER

The Byproducts from Palm Oil Processing as Animal Feed

He has more than 6 years experience in animal nutrition and diseases, particularly livestock animals.

Currently - actively involved in Research & Development of making AFFORDABLE AND ECONOMICAL ANIMAL FEED using various types of agro-byproducts to ensure sustainable animal feed supply. Ultimately safeguarding food security in Malaysia.

Shamsuddin Sulaiman

Senior General Manager
Operations and Maintenance
Cenergi SEA Bhd



SPEAKER

Biogas from Wastewater: Sustainable Energy Solutions

In January 2013, Shamsuddin began working with Cenergi SEA as the operation manager for the Havys Biogas Plant. Later, he was promoted to Regional Manager in charge of the biogas portfolio's growth. Shamsuddin started his career in Building Service Management with Menara Kuala Lumpur Sdn Bhd in 1999 before working for Felda Palm Industries Sdn Bhd in 2002.

In 2008, he made the switch to a sector with more renewable energy opportunities. From that point on, he has taken part in the evaluations, operations, and management of biogas-to-flare and biogas-to-grid energy projects as part of the Feed-in-Tariff scheme.

He gained further insight and expertise in the operations and maintenance of biogas, which helped him become a more sought-after speaker on many platforms, like PIPOC, biogas conferences, and colleges, to promote biogas as a sustainable energy source. Additionally, he has been contributing and is now participating in the curriculum for a training program focused on the "Operation and Maintenance of Biogas Power Plant Course" led by SEDTA.

Currently, he holds the position of External Advisor (Industry) for a UKM bachelor's degree program. Shamsuddin received his bachelor's degree in mechanical engineering with Hons. from the University of Malaya.