BERITA ENSEARCH

CAPACITY BUILDING NGO IN THE ENVIRONMENTAL FIELD AS AN ENABLER TO MALAYSIAN PROFESSIONALS GROWTH
****A MONTHLY EMAIL NEWSLETTER****

JANUARY-APRIL 2023
E-BULETIN AT HTTP://ENSEARCH.ORG/RESOURCES/

IN THIS ISSUE

FEATURED MEMBER – 02

FEATURED ARTICLES
IWK's Adaptation of the Circular Economy towards the Sustainability of Water Resources - 03

Introducing UN Global Compact Network Malaysia and Brunei (UNGCMYB) - 10

PAST EVENTS & ACTIVITIES - 12

ENSEARCH UPCOMING EVENT - 15

ENSEARCH CALENDAR 2022 - 16

ENSEARCH COUNCIL MEMBERS 2022/2023 - 21

ENSEARCH SECRETARIAT - 22

OUR HISTORY

ENSEARCH was formed on 26th November 1984 by a pioneer group of local professionals and academics from multidisciplinary backgrounds. Its first President (1984-2000) was Ir. K. Kumarasivam and its first Hon. Secretary General was Dato' Dr. Abu Bakar Jaafar. Today, ENSEARCH has more than 300 Members consisting of Corporate, Individual and Life Members.

It is acknowledged that enhanced awareness and competency of organisations and individuals through education and training is essential to achieve the objectives of Malaysian Environmental Quality Act 1974. Therefore ENSEARCH began formulating and implementing training programmes to enhance the local capacity in environmental management in Malaysia.

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30-2, Jalan PJU 5/16, Dataran Sunway, Petaling Jaya , Selangor.

FEATURED MEMBER

Ir Narendran Maniam
Ensearch Member
(CORPORATE MEMBERSHIP)

Ir Narendran Maniam is one of ENSEARCH's active members under Corporate membership. He has been with ENSEARCH more than 15 . He was appointed as the Chief Executive Officer of Indah Water Konsortium Sdn Bhd (IWK) in August 2019. His role is to spearhead the company to undertake the vital task of ensuring that Malaysians today and in the future will be able to enjoy a clean and healthy environment through a proper and well-maintained sewerage system. Narendran had previously served in IWK from 1998 to 2005 as planning engineer and planning manager. He has over 25 years of successful experience with combined professional experience in Strategic Planning, Business Development, Planning of Water and Wastewater Infrastructure and Operations of Water and Wastewater Services, including project financing. He holds a Bachelor of Engineering (Civil) Degree from University Teknologi Malaysia (UTM) in 1998, and obtained a Masters in Engineering (Civil - Environmental) from University Teknologi Malaysia in 2003. He registered with Board of Engineers (Malaysia) and appointed as Council Member of the Malaysian Water Association (MWA) 2021/2023 Session.

CHIEF EXECUTIVE OFFICER
INDAH WATER KONSORTIUM SDN BHD

Prior his appointment as CEO of IWK, Narendran was the Chief Executive Officer of Ranhill Water Technologies Sdn Bhd (RWT) from June 2017 until August 2019. Drawing upon his experience and expertise in implementing operational, strategic and organisational changes to manage risk and mitigate underperformance, he successfully led RWT to profitability with revenue increased by 150% in FY2018 vs the previous financial year.

IWK's Adaptation of the Circular Economy towards the Sustainability of Water Resources

By IR NARENDRAN MANIAM,
MAR 31,2023

An overview of Malaysia's national sewerage company, Indah Water Konsortium Sdn Bhd

Indah Water Konsortium (IWK) Sdn. Bhd. is Malaysia's national sewerage company, entrusted with the critical task of developing and maintaining a modern and efficient sewerage system for all Malaysians. With 29 years of experience, IWK has proven its capability in managing the sewerage system in the country efficiently, providing sewerage services to a connected population equivalent (cPE) of close to 31 million. Today, IWK operates and maintains over 7,000 public sewage treatment plants (STP), 1,400 network pump stations, and 20,927 km of sewer lines, making it one of the sewerage service operators in the region.

Over the years, IWK's role has evolved and expanded beyond merely providing utility services on sewerage services for Malaysians. The company's commitment to technological advancement and innovation in sewage treatment systems has resulted in the production of by-products from STPs in the form of bioeffluent, biosolids, and biogas, which serve as resource recovery products in line with the concept of Circular Economy.

IWK's commitment to technological advancements aligns with its agenda to be operationally and financially sustainable, prioritising its people while focusing on environmental sustainability. The company has adopted the tagline "New Life for Water," which encapsulates all its initiatives to meet the United Nations Sustainable Development Goals (UN SDGs) and reflects its commitment to the environment by ensuring that the treated water discharged is clean, safe, and sustainable for nature. IWK's transformation to venture towards a more holistic wastewater management including resource recovery has not only created new business opportunities for the company but also served as a beacon of hope for a greener, more sustainable future for Malaysia.

Malaysia is one of the countries that have pledged to uphold the UN SDGs, and the government has taken significant steps to embrace SDG strategies. In 2017, the Green Technology Master Plan Malaysia (GTMP) was introduced, outlining a long-term plan for sustainable development. The Malaysian Government's commitment under the GTMP 2017-2030 is to reuse 33% of the total treated effluent water to benefit all Malaysians, which is a crucial step towards ensuring the country's water security and achieving the UN SDGs.

The government is highly committed to addressing and implementing climate actions to further reduce the country's carbon emission. The Ministry of Natural Resources, Environment and Climate Change (NRECC) remains dedicated to realising the next-zero GHG emission target while balancing its economic needs of the nation and the people's well-being. As such, NRECC's priority will be the National Determined Contributions (NDC) Roadmap and Long-term Low Emissions Development Strategies which will determine the country's pathway towards net-zero GHG emissions.

Amongst key initiatives which NRECC has also incorporated is its aims to produce 1,500 MLD of reclaimed water from treated effluent, a key measure to address Malaysia's increasing water demands and to improve the country's environmental sustainability. By implementing this initiative, Malaysia can reduce its reliance on freshwater resources and increase the supply of non-potable water for various purposes, such as irrigation and industrial processes, without compromising on water quality and safety.

Incorporating circular economy practices to drive operational sustainability

IWK recognises the importance of aligning its business operations with the Government's Environmental Sustainability Plan. Specifically, IWK has implemented initiatives to achieve sewerage operational expenditure cost recovery and to reclaim bioeffluent from IWK's STP, focusing on a waste-to-wealth approach. By reusing the by-products generated during the wastewater treatment process, including bioeffluent, biosolid and biogas, IWK has demonstrated its commitment to environmental sustainability and the circular economy.

IWK has taken a major step towards promoting a circular economy and improving the sustainability of the water services industry through its bioeffluent reuse initiative. With an estimated 6,400 million litres per day (MLD) of treated effluent released from STPs around Malaysia, which is equivalent to over 2,000 Olympic-sized swimming pools, there is tremendous potential for IWK to reclaim the treated effluent for non-potable usage

Figure 1: WRP at Setia Alam Regional Sewage Treatment Plant (RSTP) SAM 163

To achieve this, IWK has implemented a water reclamation initiative where wastewater treated from the STPs undergoes further treatment to be reused for non-potable purposes.
In 2021, IWK with Pengurusan Air Selangor Sdn Bhd (Air Selangor) established a joint venture company known as Central Water Reclamation Sdn Bhd (Central Water), to promote a sustainable water reclamation initiative in Klang Valley. The bioeffluent treated at IWK's treatment plants is further treated at Central Water's water reclamation plant, which is equipped with advanced technologies, to produce non-potable reclaimed water that can be safely used for industrial purposes. By spurring the WRP projects as second tap

for industrial use, which will be the alternative water for non-potable applications, this will result in freeing up the raw water resources for potable water consumption.

To further uplift the sustainability of the water services industry, IWK partnered with Syarikat Air Melaka Berhad (SAMB) and recently with Perbadanan Bekalan Air Pulau Pinang (PBAPP) to explore and develop a water reclamation initiative in Melaka and Penang respectively. This is a bold step toward the circular economy agenda to minimise adverse impact of public health and environment. Going forward, IWK will continue seeking collaboration with Water Operators to ensure the sustainable development of Water Reclamation Plants. This is in line with the national target of achieving a total capacity of 1,500 MLD by the year 2030.

IWK has also signed a Memorandum of Understanding (MOU) with Majlis Perbandaran Port Dickson (MPPD) to supply biosolids and bioeffluent for non-crop applications. This collaboration was established to support MPPD's goal of reducing chemical fertiliser usage and potable water consumption for landscaping purposes. The success of this collaboration has led to the renewal of the agreement until 2024, indicating the positive impact that it has had on both parties. This collaboration highlights the importance of public-private partnerships in achieving sustainable goals and promoting environmental stewardship.

For some of IWK's large-scale plants, bioeffluent recycling activities have been implemented to minimise their environmental impact and reduce potable water usage at our STPs. In 2022, IWK successfully utilised 27MLD (million litres per day) of bioeffluent for its internal recycling. This means that instead of releasing 27MLD of bioeffluent into the environment, IWK treated it to a standard suitable for internal use and reused it for various purposes within IWK's own plants. This helps to preserve local water resources and reduce the overall impact on the environment.

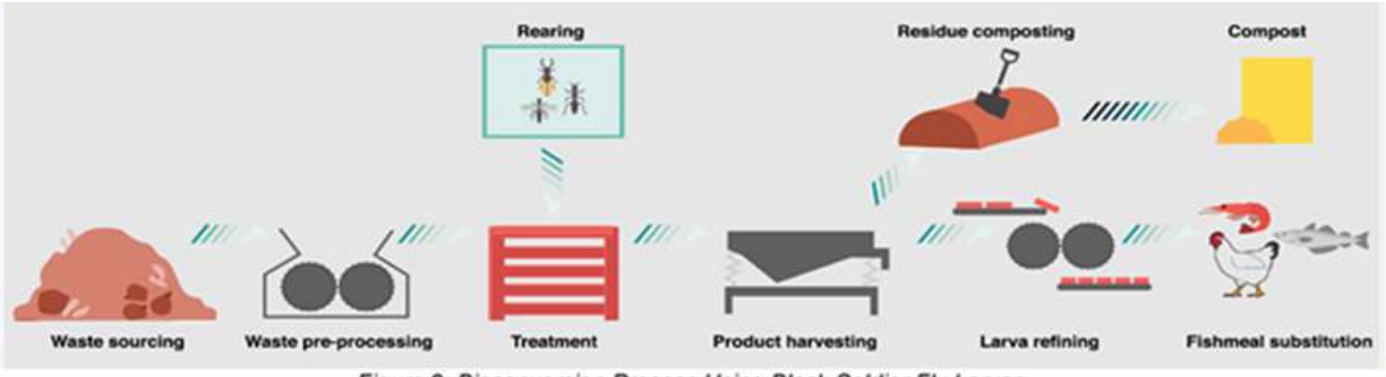


Figure 2: Bioconversion Process Using Black Soldier Fly Larvae

With about 80,000 tonnes of biosolids produced annually from IWK STPs, finding ways to utilise this valuable resource is crucial. The Black Soldier Fly Larvae (BSFL) initiative that IWK is currently working on is a fascinating solution that not only addresses waste management but also provides an animal feed supplement. The benefits of using BSFL in waste management are numerous, including the reduction of waste and greenhouse gas emissions. Additionally, the BSFL generated from this process can be a source of valuable protein for animal feed, which could have a positive impact on the livestock industry.

The collaboration with MPPD on supply for biosolids for landscaping has benefitted in reducing MPPD's reliance on chemical fertilisers. Furthermore, IWK has recently partnered with Koperasi Kebuniti Selangor Berhad (KOBUNITI) to explore the use of biosolids as fertilisers for non-food crops is another impressive step towards sustainable waste management. The use of biosolids as fertiliser not only reduces waste butalso. provides a cost-effective and sustainable

Figure 3: Biosolid Fertiliser

alternative to synthetic fertilizers. This initiative could also potentially reduce carbon emission of 300 MtCO2e or 4 percent a year. Not to mention, it also improves soil health and increase crop yields while reducing the environmental impact of traditional fertilisers

Figure 4: Minister of NRECC's Visit to Indah Water Research Centre, Titiwangsa, Kuala Lumpur on the use of biosolids as fertilisers for non-food crops

In addition to the reuse of biosolids, IWK has also taken steps to generate renewable energy from the third by-product of wastewater treatment process - biogas. This innovative approach involves using an Anaerobic Digester (AD) system, where the sludge is treated to reduce the volatile solids, resulting in a more stable sludge for disposal. The biogas produced from this process can be used as an alternative source of renewable energy that can generate electricity for self-consumption. Currently, six

Figure 5: Biogas System at Regional Sewage Treatment Plant (Pantai 2 RSTP)

of IWK's STPs have the capacity to produce 10,000 m3/day of biogas, with a potential to generate 20 MW hours/day. The use of biogas as a source of renewable energy is a testament to IWK's commitment to green technology adoption. By utilising biogas, IWK not only reduces reliance on fossil fuels but also decreases carbon footprint, contributing to a more sustainable future and at the same time help to reduce the energy cost to the company. This initiative also demonstrates IWK's ability to adopt and implement innovative solutions to address environmental challenges,

Operational sustainability is also reliant on good sewerage system technology and infrastructure, where it can be designed and operated in a sustainable manner, using practices such as green infrastructure, low-energy treatment technologies, and water-efficient processes. This helps to minimize the environmental impact of the system and reduce its overall carbon footprint. The National Water Services Commission (SPAN) plays a crucial role in overseeing the improvement of Malaysia's sewerage system technology and infrastructure. As a regulatory body for the country's water and wastewater industries, SPAN has been supportive and is committed to ensuring that the sewerage system infrastructure receives the necessary upgrades.

In fact, SPAN has full jurisdiction over the capital expenditure of sewerage systems in Malaysia and has allocated a budget of RM142.8 million in the past year for IWK to upgrade 644 STPs. Through these upgrades, IWK can meet the stringent standards set forth by the Environmental Quality (Sewage) Regulations 2009. Moreover, STPs located upstream of water intakes are now being upgraded with green technology features to improve the quality of treated effluent. Thanks to the concerted efforts of SPAN, IWK, and other stakeholders, Malaysia's sewerage system is poised for significant improvements in the years ahead.

Striving for environmental sustainability

Despite IWK's efforts to promote environmental sustainability, there are external factors and parties that may knowingly or unknowingly contribute to environmental pollution. This can hinder IWK's efforts to fulfil its responsibility to the environment, particularly with regard to its commitment to achieving UN SDG 6 (Clean Water and Sanitation).

IWK has faced various pollution issues in the past, particularly when irresponsible parties have illegally discharged waste into the sewerage system. This has temporarily disrupted the operations of the relevant STPs. To address this, IWK has implemented additional shifts beyond its standard operating procedures, invested in more capable monitoring systems, and collaborated with relevant authorities to prevent such situations from occurring again.

In addition, there are an estimated 1.3 million septic tanks connected to premises nationwide in Malaysia, but only about 10% of these tanks are desludged or maintained regularly. However, in March 2021, the Government achieved a significant milestone in addressing environmental pollution caused by unmaintained septic tanks by gazetting the Water Services Industry Act (Desludging Services) 2021. With this new regulation, customers whose premises are connected to septic tanks will need to conduct scheduled desludging of their tanks, with tighter enforcement by the regulator. This will ensure that IWK discharges its responsibility to the environment with greater enforcement. As the acceptance rate steadily increases, IWK continues to implement education and awareness programmes for all levels of communities to promote the importance of caring for the environment.

Since 2018, IWK has hosted the 'Friends of Rivers' programme, whereby it has adopted 21 rivers nationwide and worked with local communities to care for them. This programme raises awareness of the impact of treated wastewater, emphasizing its role in community sanitation, and highlights how properly treated wastewater can be transformed into safer conditions before being released into the environment.

Figure 6:'Friends of Rivers' programme

IWK is committed to environmental sustainability by reducing greenhouse gas (GHG) emissions through the implementation of green initiatives such as e-procurement, energy-efficient equipment, and green technology, particularly in its STPs. The company has been driving down its GHG emissions intensity over the last decade and more through managing energy consumption towards reducing GHG emissions and its impact on climate change. The Pantai 2 RSTP, IWK's hallmark regional sewage treatment plant, is the largest underground plant in the Asia Pacific region and a prime example of IWK's green technology initiatives. The plant maximises green energy utilisation through the installation of solar panels, biogas utilisation, rainwater harvesting, and final bioeffluent reuse for non-potable use, contributing RM6.5 million in yearly savings, including playing a critical role in maintaining the health and cleanliness of Kuala Lumpur's waterways and ecosystems.

Figure 7: Pantai 2 RSTP in Lembah Pantai, Kuala Lumpur

Another green initiative embarked by IWK involves expanding its desludging services for fat, oil, and grease (FOG) traps used by food businesses, which have been implemented at the beginning of 2021. This initiative is critical to reducing the likelihood of illegal discharge and dumping of FOG into public waterways and manholes, which can harm the environment and public health. This service has also been effective in addressing frequent blockage issues in sewer pipelines, reducing water pollution caused by FOG from food waste and cooking oil being dumped directly into drains. These substances can harden and clog water flow, leading to sewage overflow and pollution in surrounding areas. By raising awareness among food and beverage operators, IWK have encouraged many businesses to regularly use its FOG services. Additionally, IWK has received support from the Ministry of Finance (MOF) to participate in FOG desludging tenders under Local Authorities nationwide, which provide more opportunities to bid on desludging service contracts. In 2021, the Majlis Perbandaran Selayang (MPS) appointed IWK to desludge 70 of its Communal Grease Traps (CGT). IWK is also collaborating with sewage disposal system operators to develop new FOG facilities that can process FOG and convert the processed cooking

oil into biodiesel feedstock. Overall, IWK has seen strong interest in its FOG desludging services, and anticipate a positive impact on our bottom line within two to three years.

Takeaways and future goals

IWK's initiatives and efforts towards a circular economy-driven model demonstrate its commitment to environmental sustainability. These initiatives do not only align with the company's values, but also address critical water-related issues such as climate change, water source contamination, and resource depletion. By adopting sustainable innovation practices and solutions, the company is proactively responding to the changing environmental landscape. This approach will enable the company to create long-term value for its people, operations, and the environment.

Looking ahead, the company will continue to prioritise sustainable innovation and collaborate with stakeholders to achieve its future goals of reducing its environmental impact and benefit the environment, society, and the economy.

Introducing UN Global Compact Network Malaysia and Brunei (UNGCMYB)

By Faroze Nadar, Executive Director, UNGC Malaysia & Brunei, MAR 27,2023

With global temperatures rising by 1.1˚C and greenhouse gas (GHG) emissions continuing to increase, the Intergovernmental Panel on Climate Change (IPCC) Synthesis Report released in March highlighted the need for immediate and coordinated action across sectors to secure a liveable and sustainable future for all. As the final part of its Sixth Assessment, the report noted that climate impacts have been more severe than previously expected, and areforecast to accelerate with increased warming.

In this decisive decade in which global emissions need to fall by 45 per cent by 2030 to keep temperatures below 1.5˚C, it is critical that we continue to strive for a low carbon economy. Malaysian corporates and SMEs and other organisations are increasingly recognising the need to embrace sustainable practices as part of business strategy.This trend is also being driven by the global marketplace which puts great emphasis on sustainability performance in trade transactions.

As part of the world's largest corporate sustainability initiative, UN Global Compact Network Malaysia and Brunei (UNGCMYB)has an ever-increasing local network of more than 220 participating companies. Emphasising collaboration and innovation, UNGCMYB's mission is to workwith businesses – large and small –to align strategies and operations with the Ten Principles of human rights, labour, environment and anti-corruption, and take actions that advance the Sustainable Development Goals (SDGs).

Leveraging the UN Global Compact's international, regional and local networks, UNGCMYB connects with businesses and stakeholders from government, the non-profit sector and academia to help companies and organisations turn their sustainability aspirations and commitments into strategies that drive impact. UNGCMYB achieves this by raisingthe sustainability ambitions of business leaders and sustainability practitioners and supporting them totake the urgent actions required to meet the SDGs by 2030.

Through thought leadership, strategic engagements and collective action platforms, as well as our world-class Digital Learning Academy offering a vast library of courses on all aspects of environmental, social and governance (ESG) and our recently launched UNGCMYB Academy which delivers training programmes specifically for Malaysian businesses, we provide corporates and SMEs with the tools and thinking they need to develop sustainability strategies that result in business resilience and competitiveness.

High-level collaboration – both within and across sectors – is critical at this time as companies accelerate and scale strategies aimed at achieving equity, climate justice, social justice, inclusion and a just transition. The IPCC Synthesis Report serves as a reminder that the tailwinds for sustainability action are stronger than ever, particularly since future environmental and social developments remain uncertain. That's why it's critical for business to take collective action that delivers on the SDGs to enable change.

Against this backdrop, three notable themes have emerged in Malaysia's business landscape:

·Two speed transition – Larger companies are transforming their businesses faster than others, with only about 20 per cent of companies having started, or preparing to embark on their sustainability journey.

- Greater support needed for SMEs– Sustainability is becoming a must-have for companies of all sizes including SMEs which are more vulnerable to sustainability-linked risks, and risk losing out on business if they are not meeting ESG criteria set by their corporate supply chain owners.
- Sustainability knowledge gap – With the priority being given to sustainability internationally, Malaysian businesses need to take proactive measures to bridge the knowledge gap within their organisations through awareness building and competency development programmes

In UNGCMYB's engagement with participating companies in our local network, and the broader private sector, there is clear indication that businesses are willing to invest indeveloping the skills and teams needed to empower change agents who candrive sustainability within their businesses, and support Malaysia's ambition of becoming a more sustainable nation which would cement thenation's position as a leading global sustainable trade hub.

UN Global Compact Network Malaysia & Brunei have a library of guidebooks covering a range of topics.

Figure 1: The CEO Guide to Sustainability-Centric Businesses was released with our knowledge partner Capital Markets Malaysia (CMM)'s Centre for Sustainable Corporations (CSC) in building sustainable practices amongst public listed companies.

Figure 2: This guide provides an easy reference to leaders of businesses who wish to transition their companies towards a net-zero carbon future. The development of the CEO's Guide is supported by HSBC Malaysia and is based on discussions in a series of CEO roundtables organised by UNGCMYB along with Tata Consulting Services (TCS) Malaysia, HSBC Malaysia, BMCC, Malaysian-German Chamber of Commerce and Industry, and NUBS Malaysia

Past Events & Activities

FORUM ON ESG : ESG READINESS IN MALAYSIA AND ITS FUTURE CHALLENGE
(08th February 2023)

We are happy to inform that ENSEARCH successfully organized a Forum on ESG : ESG Readiness in Malaysia and Its Future Challenge which was held on 08th February 2023 at Kelab Golf Negara Subang Selangor.

A information-packed sharing by the speakers and fruitful panel session. We aim for more interactive forum and dialogue in the future and promoting effective ways to manage the impacts of human activities on the environment.

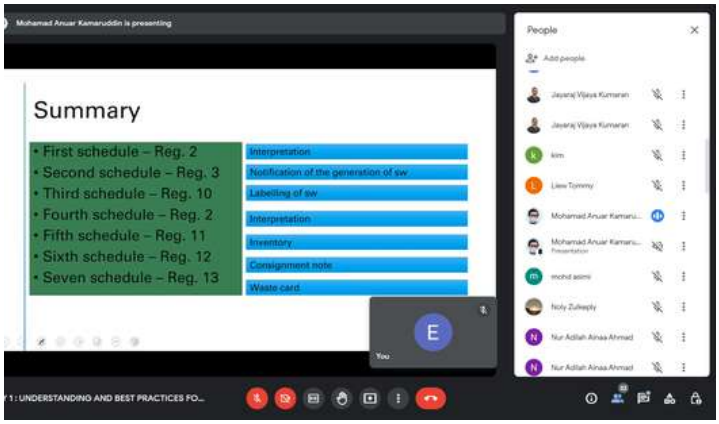
The Forum attended by more than 100 participants from various industry. We would like to thanks to our distinguish speakers, Ms Shanta Helena from UNGC Malaysia, Ms Aminah Ang from ESG Consultants, Ms Aernida Abd Kadir from SIRIM, Ms Sabarinah Marsuky from Sabarinah & Associations, Ms Jessica Meenachi from MITI, Dr Hari Ramalu Ragavan from Akar Asia Consultants, and Mr Abdul Aziz Long from Ensearch Malaysia.

Many thank to our members and everyone for the continuous support for ENSEARCH's events and activities.

Past Events & Activities

Understanding & Best Practices for Scheduled Waste Management (SWM) (18th-19th January 2023)

By Dr Anuar Kamarudin



The training on 'Understanding & Best Practices for Scheduled Waste' has ended. It was held virtually (online) for two continues days. The training which was held on 18th & 19th January is ENSEARCH's annual training by Dr Anuar Kamarudin. We would like to thankDr Anuar Kamarudin for delivering the training. The software used for the training was very complicated however, Dr Anuar Kamarudin managed to explain and demonstrated the software application to all participants.

Erosion & Sediment Control at Development Sites (08th-09th February 2023)

By Mr Abraham Chong

The first physical training for the year of 2023 on 'Erosion & Sediment Control at Development Sites' has been successfully conducted. The training which was held on 08th -09th February 2023 has attracted around 15 participants from all over Malaysia. We would like to thank Mr Abraham Chong for delivering the training.

Past Events & Activities

Environmental Mainstreaming Tools Towards ESG Compliance (EMT) (08th-09th March 2023)

By Mr Abraham Chong

A fruitful training on 'Environmental Mainstreaming Tools Towards ESG' was conducted on 08th & 09th March 2023. We back to the online training where the training was delivered by Mr Abraham Chong. Environmental Mainstreaming Tools (EMT) is designed to develop an industrial society with intrinsic culture of pride in environmental excellence by adapting the principles of Guidance. This course promoted by DOE is useful tools towards SDG under the ESG framework by industries.

Life Cycle Assessment in Malaysia (LCA) (13th-14th April 2023)

By Prof Dr Sumiani Yusoff

On 13th & 14th April 2023, ENSEARCH again conducted virtual training and invited Prof Dr Sumiani Yusoff to deliver a training on "Life Cycle Assessment in Malaysia (LCA)". This training had attracted 26 participants from all over Malaysia. The course was developed in order to evaluate the possible output, input and impact of product system toward the environment. The objectives of this training were to enhance the skills and knowledge in LCA and to ensure the participants get familiarize with LCA's software.

ENSEARCH UPCOMING EVENT !!

ENSEARCH CALENDAR YEAR 2023

JANUARY

1) TRAINING ON UNDERSTANDING AND BEST PRACTICES FOR SCHEDULED WASTE MANAGEMENT (18TH & 19TH JANUARY 2023) - **ONLINE**
Trainer: Dr Anuar Kamarudin

FEBRUARY

1) TRAINING ON EROSION & SEDIMENT CONTROL AT DEVELOPMENT SITES (08TH & 09TH FEBRUARY 2023) - **CLASSROOM (12 CPD)**
Trainer: Mr. Abraham Chong

2) FORUM ON ESG : ESG READINESS IN MALAYSIA AND FUTURE CHALLENGES (08TH FEBRUARY 2023)
Venue: Kelab Golf Negara Subang Selangor

MARCH

1) TRAINING ON ENVIRONMENTAL MAINSTREAMING TOOLS TOWARDS ESG COMPLIANCE (08TH - 09TH MARCH 2023) - **ONLINE**
Trainer: Mr Abraham Chong

APRIL

1) TRAINING ON LIFE CYCLE ASSESSMENT IN MALAYSIA (13TH & 14TH APRIL 2023) - **ONLINE**
Trainer: Prof Dr Sumiani Yusoff

2) MEETING WITH PN MASHITAH BINTI DARUS (DEPUTY DG OF DOE) (5 APRIL 2023)
Venue: Bilik Mesyuarat Melur Aras 1, Jabatan Alam Sekitar, Putrajaya

MAY

1) TRAINING ON BASIC SCHEDULED WASTES MANAGEMENT AND E-APPLICATION TRAINING (10TH & 11TH MAY 2023) - **ONLINE**
Trainer: Dr Maran Kaliannan

2) TRAINING ON AIR QUALITY ASSESSMENT & WORKPLACE IMPACT AWARENESS (23RD MAY 2023) - **ONLINE**
Trainer: Dr Subramaniam Karupannan

3) RIVER EDUCATIONAL TRIP (TECHNICAL FIELD VISIT 2023)
Venue: Taman Awam Pengkalan Baru

Most of ENSEARCH Training are HRDF Claimable
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ENSEARCH CALENDAR YEAR 2023

JUNE

1) TRAINING ON INTRODUCTION TO SUSTAINABLE FINANCING (14TH & 15TH JUNE 2023) - **ONLINE**
Trainer: Dr Hari Ramalu Ragavan

2) TRAINING ON GREENHOUSE GASES CALCULATION (27TH JUNE 2023) - **CLASSROOM**
Trainer: Mr Au Choon Wai

3) INTERNATIONAL CONFERENCE AND EXHIBITION ON WATER AND WATER RESOURCES MANAGEMENT (06TH - 08TH JUNE 2023) - **ONLINE**

JULY

1) TRAINING ON INTRODUCTION TO CARBON TRADING (TBC) - **ONLINE**
Trainer: Mr Shiro Chikamatsu

2) TRAINING ON ENVIRONMENTAL RADIATION EVALUATION IN EIA (TBC) - **CLASSROOM**
Trainer: Ts Razali Harun

3) TRAINING ON CRADLE TO GRAVE & CRADLE TO CRADLE WASTES MANAGEMENT (20TH JULY 2023) - **CLASSROOM**
Trainer: Dr Maran Kaliannan

4) FORUM ON ISO 14020:2000 ENVIRONMENTAL LABELS AND DECLARATIONS - **ONLINE**

AUGUST

1) TRAINING ON SURFACE WATER QUALITY ASSESSMENT (TBC) - **CLASSROOM**
Trainer: Ir Dr Zaki Zainnuddin

2) TRAINING ON EIA AND POST-EIA - FROM PLANNING TO COMPLETION (15TH & 16TH AUGUST 2023) - **CLASSROOM (12CPD)**
Trainer: Ms Geetha P. Kumaran

3) TRAINING ON SOLID WASTE MANAGEMENT & IMPACT ASSESSMENT (TBC) - **ONLINE**
Trainer: Prof Dr Mohd Razman Salim

4) FORUM ON ESG (SECOND SERIES) - (TBC)

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ENSEARCH CALENDAR YEAR 2023

SEPTEMBER

1) TRAINING ON ENVIRONMENTAL ASPECT AND IMPACT ASSESSMENT (EASI) (06TH & 07TH SEPTEMBER 2023) - **CLASSROOM**
Trainer: Dr Subramaniam Karupannan

2) TRAINING ON INTRODUCTION TO ENVIRONMENT, SOCIAL, AND GOVERNANCE (TBC)
Trainer: Dr Hari Ramalu Ragavan

1) TECHNICAL FIELD VISIT 2023 (TBC)
Venue : Cyparks Resources Berhad

OCTOBER

1) TRAINING ON CLIMATE CHANGE ADAPTION AND IMPACT TO MALAYSIA (TBC) - **CLASSROOM**
Trainer: Mr Shiro Chikamatsu

2) TRAINING ON UNDERSTANDING WASTEWATER QUALITY ANALYSIS IN INDUSTRIAL EFFLUENT (TBC) - **CLASSROOM**
Trainer: Ts Dr Fatehah Mohd Omar

NOVEMBER

1) TRAINING ON ENHANCING SCHEDULE WASTE SPILL RESPONSE MANAGEMENT (ESWSRM) (8TH & 9TH NOVEMBER 2023) - **CLASSROOM**
Trainer: Dr Subramaniam Karuppanan

2) TRAINING ON INTRODUCTION TO SUSTAINABLE SUPPLY CHAIN MANAGEMENT (TBC) - **CLASSROOM**
Trainer: Dr Hari Ramalu Ragavan

DECEMBER

1) TRAINING ON MEASURING FRESHWATER ECOLOGY, QUALITY, SAFETY & SECURITY (TBC) - **CLASSROOM**
Trainer: Dr Casey Ng

2) TRAINING ON DYNAMIC RIVER WATER QUALITY MODELLING (TBC 1DAY) - **CLASSROOM**
Trainer: Ir Dr Zaki Zainnuddin

3) FORUM ON EPA / EQA - CURRENT LAW OF ENVIRONMENT
Venue: Kelab Golf Negara Subang

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ENSEARCH SEMINAR ROOM FOR RENT

RM350.00 net per day

Approximately 800 square feet

Classroom seating - 25 pax

Theatre seating - 40 pax

Time: 0830 - 1700

INCLUDING

Projector Screen

Whiteboard & Marker

Flip Chart

Water dispenser

High Speed WIFI Internet

Tables & Chairs

Prayer Room

Spacious classroom or theatre setting

Reading corner at the room's entrance

ENVIRONMENTAL MANAGEMENT & RESEARCH ASSOCIATION OF MALAYSIA (70/84 WP)

30-2 Jalan PJU 5/16, Kota Damansara,
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