

# BERITA ENSEARCH

*Building capacity in the environmental field as an enabler  
to Malaysian professionals' growth*

## Editor's note

Dear members,

With this 1st issue of Berita ENSEARCH for 2021 we are unfortunately still facing the worldwide corona virus pandemic. After more than a year of lock-downs and restricted movement most of us are trying to bring normalcy back into our lives. ENSEARCH has meanwhile continued to sustain our programmes and activities for our members and interested parties and can be referred to on our website.

In this issue we provide articles on pollution and public health, as well as green procurement. Our mission of promoting excellence in environmental management among organisations, professionals and interested persons drives us forward towards promoting the sustainable development goals (SDGs), especially SDG 12 for responsible consumption and production.

We support the many sustainability and environment-related webinars and on-line seminars and forums, both locally and internationally, that can contribute towards the professional and personal growths of our members and the public - for instance the 15th Conference of the Asia-Pacific Roundtable for Sustainable Consumption and Production (APRSCP). This has been adapted to a series of 4 weekly webisodes, which will conclude on 11th May 2021.

The support and participation of our members, friends and families are important and needed during these trying times. We thus remind everyone to continue to make a habit of practising good personal hygiene, maintaining SOPs at all times. We wish to all continued good health and be safe. To all Muslim brothers and sisters, we wish you Salam Ramadhan and Selamat Hari Raya Aidilfitri.

## NOTE TO MEMBERS

Members are encouraged to write to [admin@ensearch.org](mailto:admin@ensearch.org) in the event of changing contact details. Corporate Members are recommended to provide more than one contact (email address) to facilitate better dissemination of ENSEARCH information.

## in this issue

### FEATURED MEMBER

page 02

### FEATURED ARTICLES

*Pollution and Public Health is a Vital Part of the Energy Transition*

page 03

*Implementing the National Sustainable Consumption and Production Blueprint through Government Green Procurement (SCP-GGP) Project*

page 07

*Green Procurement*

page 09

*Deforestation Rates in Malaysia Declined in 2020 Due to Impact From COVID-19*

page 11

*Press Release Reproduced : Now is the Time for Action*

page 13

### PAST EVENTS & ACTIVITIES

page 17

### ENSEARCH CALENDAR 2020

page 23

### ENSEARCH COUNCIL MEMBERS

Page 26

### ENSEARCH SECRETARIAT

page 27



# FEATURED MEMBER

## Mr Ramkumar

### (ENSEARCH Member)

Ramkumar, a member of ENSEARCH, has been in the organizing committee of the International Conference & Exhibition on Waste Management, 2019 for ENSEARCH. He graduated as a mechanical engineer from the University of Mysore, India, in 1992. After graduating, Ramkumar worked in the largest electrical motor and alternator company in India, Kirloskar Electric, where he managed and supervised the production of motors up to 20 MW and alternators above 1.75 MVA and all material handling in the factory.

As part of a special assignment, he was the project leader which included designing the layout, procuring, supervising the installation and commissioning of the vacuum pressure impregnation plant from Isovolta, Germany. He was also responsible for the computerization of the casting yard-created a database to keep the dynamic inventories of the casting yard daily and generate reports for the accounts department.

In 1994, Ramkumar moved to Malaysia to work for STI-K Polymers Sdn. Bhd. where he was in charge of the installation, testing and commissioning of the production facility for a chemical used for the recycling of rubber waste. In 1999, he moved to Chain Cycle Sdn. Bhd. where he managed the construction, testing and commissioning of a 40-ton Municipal Solid Waste Treatment Plant for the Government of Malaysia, built on the island of Labuan, Malaysia. He oversaw the design and process engineering by Thales Engineering, France. Along with the project management consultants for the Government, KLIA Bhd, he negotiated and drew up the final contract agreement for the project. At Chain Cycle, he was also in charge of marketing a proprietary electrocoagulation system for industrial wastewater treatment plant.



Mr Ramkumar with his two children

He has been a member of the Environmental Protection Society of Malaysia, Waste Management Association of Malaysia, Clean Air Society and Malaysian Nature Society for many years. Ramkumar loves travelling, being with nature as often as he can and a regular practitioner of yoga.

Ramkumar has been practicing as an Environmental Consultant for the last 17 years and has completed both engineering and environment-related projects as the managing director of GSR Environmental Consultancy Sdn. Bhd. In GSR he has had experience in Project management consultancy, designing layouts, and supervision of the testing and commissioning of manufacturing plants, lead the team preparing the Survey on Solid Waste Composition, Characteristics & Existing Practice of Solid Waste Recycling in Malaysia JPSPN.



Mr Ramkumar attending an event with his friends. He is also regular practitioner of yoga

## FEATURED ARTICLE

# ***Pollution and Public Health is a Vital Part of the Energy Transition***

*Author: Dr Nurul Yaqeen Mohd Esa*

In 2020, pollution was listed on the death certificate of an individual for what is believed to be the [first time globally](#). This case from the UK highlights what public health experts have long understood – pollution is a social challenge that causes significant impacts on public health and wellbeing. Tackling the problem of pollution is a fundamental driver of the energy transition.

Air pollution imparts a tremendous burden on global public health argues Dr Nurul Yaqeen Mohd Esa, Respiratory Specialist at Sunway Medical Centre, speaking to Energy Watch recently.

**“AIR POLLUTION IS A MAJOR ENVIRONMENTAL RISK FOR HEALTH AND RANKS AS THE 13TH LEADING CAUSE OF MORTALITY GLOBALLY” SAYS DR NURUL**

“The health effects of particulate matter (PM) exposure in adults are dominated by the increase in the risk of death due to long-time exposure to fine PM (PM2.5) particles,” Dr Nurul continues. These fine particles are so small we can’t see them with the naked eye – less than a tenth the diameter of a human hair – but cause significant medical problems by penetrating deep into the lungs.

Air pollution is a global challenge, and one which connects us across borders, a fact which is seen clearly in the annual haze that blankets Southeast Asia each year. More than half of the burden from air pollution on health is borne by developing countries according to the World Health Organization (WHO). The energy transition offers a pathway to tackle that shared burden.

The WHO estimates that 9 out of 10 people globally breathe air that exceeds recommended pollution guidelines. Exposure to pollution can have a wide range of health impacts, from lung problems through to heart disease. Studies show that the greater the concentration and length of exposure to these polluting particles, the greater the risk to public health.

“The air we breathe contains emissions from many different sources, from vehicles, commercial sources, household fuels, and industry. Studies show that air pollution harms human health and is particularly harmful for those who are already vulnerable such as children, older people, and those with existing health problems,” says Dr Nurul.

While the sad case of a nine-year-old girl in the UK might be the first time this has been officially recorded, the WHO estimates that 4.2 million deaths each year can be attributed to exposure to outdoor air pollution. The energy transition is an important opportunity to tackle this problem, reducing emissions and turning towards green energy solutions which reduce or eliminate particulate pollution.



*“The air we breath contains emissions from many different sources”*

## FEATURED ARTICLE

# ***Pollution and Public Health is a Vital Part of the Energy Transition***

*Author: Dr Nurul Yaqeen Mohd Esa*

“Current scientific evidence indicates that air pollution from the combustion of fossil fuels causes a spectrum of health effects... numerous studies have demonstrated a strong relationship between levels of particulate pollution and health effects,” says Dr Nurul, “individuals living in more polluted cities have a higher risk of hospitalization and early death from pulmonary and heart disease as compared to those living in the less polluted cities.”

While efficiency has improved greatly over the last few decades, traditional fuels still emit harmful pollutants. Renewable energy technologies such as solar power are providing important alternatives to traditional fossil fuel generation. The more renewable energy we can adopt, the faster these emissions will reduce.

The factors influencing pollution are complex, with a wide range of sources contributing to particulate matter in the environment. Transport is also an important part of that equation according to Dr Nurul. “Malaysia has some of the highest individual vehicle ownership in the world, and every car on the road, plus traffic and congestion, contributes to urban emissions. Moving forward, it’s practical, economical, and environmentally beneficial to make it more convenient and efficient to choose public transport over driving our own cars.”



The WHO estimates that in Europe alone, 100,000 deaths annually could be attributed to traffic pollution in cities. You might think you’re safe inside your car, rather than outside it, but studies consistently show that air pollution inside vehicles is higher than outside the vehicle.



SDG Corner

**GOAL OF THE MONTH ( APRIL 2021)**

**WORLD HEALTH DAY | 7 APRIL**



*“As we recover from the COVID-19 pandemic, we must implement policies and allocate resources so all can enjoy the same health outcomes. That means achieving the Sustainable Development Goals by 2030.”*

— Excerpt from UN Secretary-General António Guterres’ message for World Health Day 2021

## FEATURED ARTICLE

# Pollution and Public Health is a Vital Part of the Energy Transition

Author: Dr Nurul Yaqeen Mohd Esa

Transport, like power, is an industry in which the energy transition offers a potential avenue to cut pollution. Switching to electric vehicles can significantly reduce pollution on transport networks, cutting traffic emissions on Malaysia's busy roads. Increasing use of public transport is also crucial, with electric buses and trains providing further opportunity to reduce pollution. By supporting this green transformation through increasing the share of renewable energy in the nation's power mix, we further accelerate the benefits of greener transport.

### Air pollution costs USD2.9tril to global economies

The social impact of air pollution goes beyond the important public health concerns. Research by Greenpeace reveals that the estimated economic impact of air pollution in China alone is USD900bil, and around USD600bil in the USA.

"A report by Greenpeace Southeast Asia and the Centre for Research on Energy and Clean Air reveals that air pollution costs USD2.9tril to the international economy, approximately 3.3% of global GDP. PM2.5 pollution is responsible for an estimated 1.8 billion days of work absence, four million new cases of child asthma, and two million preterm births," highlights Dr Nurul.

This study makes clear that air pollution is not just a health cost, it's inevitably an economic one. Individuals suffering from poor quality air put pressure on health-care, while at the same time costing the economy through lost earnings and reduced taxes. That's why society has both a moral, and an economic responsibility to reduce poor air quality.

The energy transition is a vital part of tackling air pollution. That means not just protecting the health of citizens, particularly those most vulnerable, but also working to protect the livelihoods that could be lost to ill-health.

**Air pollution is not just a health cost, it's inevitably an economic one.** Dr Nurul points out that "[the] wider transition towards renewable energy and low-carbon technologies will mean a lot for public health. There are major opportunities to improve air quality and health as the energy transition continues, in order to progress towards green technology implementation."

COVID-19 lockdowns have shown the remarkable transformation that human activities can make on pollution and air quality argues Dr Nurul, citing data from the Centre for Research on Energy and Clean Air (CREA). "Many Southeast Asia countries witnessed a significant improvement in air quality as a result of the varying "lockdowns" imposed during Covid-19. Interestingly, Malaysia had the most drastic changes. Kuala Lumpur experienced a drop of around 60% in nitrogen dioxide (NO<sub>2</sub>) levels, and Selangor a 40% drop."



### SDG Corner

13 CLIMATE ACTION



To limit global warming to 1.5C, as called for in the Paris Agreement, greenhouse gas emissions must begin falling by **7.6%** each year starting in 2020

## FEATURED ARTICLE

# ***Pollution and Public Health is a Vital Part of the Energy Transition***

*Author: Dr Nurul Yaqeen Mohd Esa*

While those transformations were largely due to economic shutdowns, the clear link between health and economic impacts of air pollution make clear how tightly interlinked this issue is. The energy transition will be vital to tackle this joint health and economic challenge, and we can all play our part. Dr Nurul highlights three major opportunities to improve air quality and health:



- Recycle where possible to reduce the need to use natural resources and emissions burden this can create.
- Use renewable energy and alternative fuels to reduce the need for fossil fuels, replacing them with green technology alternatives.
- Create sustainable buildings that reduce the energy burden of our homes, using recycled and environmentally friendly materials, and ensure green building design.

“It now becomes obvious that our planet is suffocating from the pollution we create. But if there is a will, there is a way to make this problem much smaller. The active use of green technology can help significantly reduce pollution and improve public health,” concludes Dr Nurul.



**Dr Nurul Yaqeen Mohd Esa**  
 Consultant Respiratory, Sleep & Internal Medicine  
 Specialist  
 Sunway Medical Centre Velocity, KL

Dr Nurul is a physician that specialises in respiratory, sleep and internal medicine. She completed her undergraduate training in International Islamic University Malaysia (IIUM) and her postgraduate training with Royal College of Physician, London UK (RCP UK). Currently, Dr Nurul is with Sunway Medical Centre Velocity, KL where she is actively involved in treating patients with lung disease and sleep disorders. She has also contributed to many publication papers and clinical research projects like Covid-19 Drive-through Test.

## FEATURED ARTICLE

# Implementing the National Sustainable Consumption and Production Blueprint through Government Green Procurement (SCP-GGP) Project

*By: UNDP in Malaysia*

Current consumption and production trends are the main causes of environmental degradation and resource depletion in Malaysia. Malaysia needs an economy that is able to grow and benefit people without increasing negative environmental impacts and pressures on natural resources. This approach called the Sustainable Consumption and Production (SCP) is emphasized in Malaysia's 11th five-year development plan as one of the focus areas that will help Malaysia to achieve green growth and transition towards a more inclusive development trajectory.

This project titled "Implementing the National Sustainable Consumption and Production Blueprint through Government Green Procurement (SCP-GGP)" is a 2.5-year project that supports Malaysia in the development and implementation of SCP as a means of achieving green growth. The project focuses on the role of the government as a key catalyst to create a green market for products and services.

The project will strengthen the enabling policy environment by providing incremental support to the full adoption and implementation of the National Sustainable Consumption and Production Blueprint. It also aims to assist Malaysia in achieving its 11th Malaysia Plan target of 20% of selected groups of products and services in government procurement to be green procurement by the year 2020.

The Environment and Natural Resource Economics Division, Ministry of Economic Affairs Malaysia is the main implementing partner for the project. The intended beneficiaries of the project are government agencies and the private sector in the form of major corporations and SMEs in the construction or other relevant sectors.

### What do we hope to accomplish?

The project will help the Government of Malaysia to finalize and institutionalize the National SCP Blueprint through technical and institutional capacity development, and pilot demonstrations of Government Green Procurement (GGP) best practices in the construction sector.

This will be achieved through three components:

#### Component 1: Enabling Policy and Institutions

This component will focus on finalizing and adopting the National SCP Blueprint, which will guide Malaysia in fully implementing the ten pathways for achieving SCP for green growth in 2030. Under this component, several baseline assessments including supply chain analysis,

SCP/GGP feasibility study and cost-benefit analysis will be carried out as inputs to the finalization of the National SCP Blueprint.

#### Component 2: Technical and Institutional Capacity

The focus of this component is to remove the knowledge barriers and enhance the understanding of SCP and GGP practices among government procurement practitioners, decision makers, manufacturers, suppliers, vendors and the public. A series of capacity building and training activities will be carried out, which will include the development of training modules targeting government procurement practitioners and vendors or suppliers of goods and services. Awareness materials will also be developed to encourage the public to adopt sustainable lifestyles.

## FEATURED ARTICLE

# Implementing the National Sustainable Consumption and Production Blueprint through Government Green Procurement (SCP-GGP) Project (Contd)

By: UNDP in Malaysia

### Component 3: GGP Pilot Demonstration

This component addresses the limitation in green products and disconnect in the current system, where manufacturers are certified for their green products but suppliers to the government are not in the vendor registry of MyHIJAU and e-Perolehan system. In this component, best practices of GGP are demonstrated by developing and piloting product criteria, guidelines, standard operating procedures, and eco-labeling schemes/ certifications for selected product groups in the construction sector. A clear monitoring and evaluation framework will be developed and integrated into the government electronic system for procurement of goods and services (E-Perolehan), to enable the tracking of green procurement results.

### Current Phase

The project is currently at the inception phase. The draft National SCP Blueprint is being reviewed and finalized to ensure its coherence with national policies and programmes, and with the Sustainable Development Goals (SDGs), particularly on SDG 12- Ensuring Sustainable Consumption and Production Patterns.

### How will it benefit to Malaysia?

A finalized SCP Blueprint will help to strengthen the coordination and effectiveness of SCP implementation in Malaysia. With better expertise in green procurement, increased technical and institutional capacity as well as better market confidence towards green products as a result of the demonstration projects, Malaysia can better posi-





# FEATURED ARTICLE

## Green Procurement

By: MyHijau

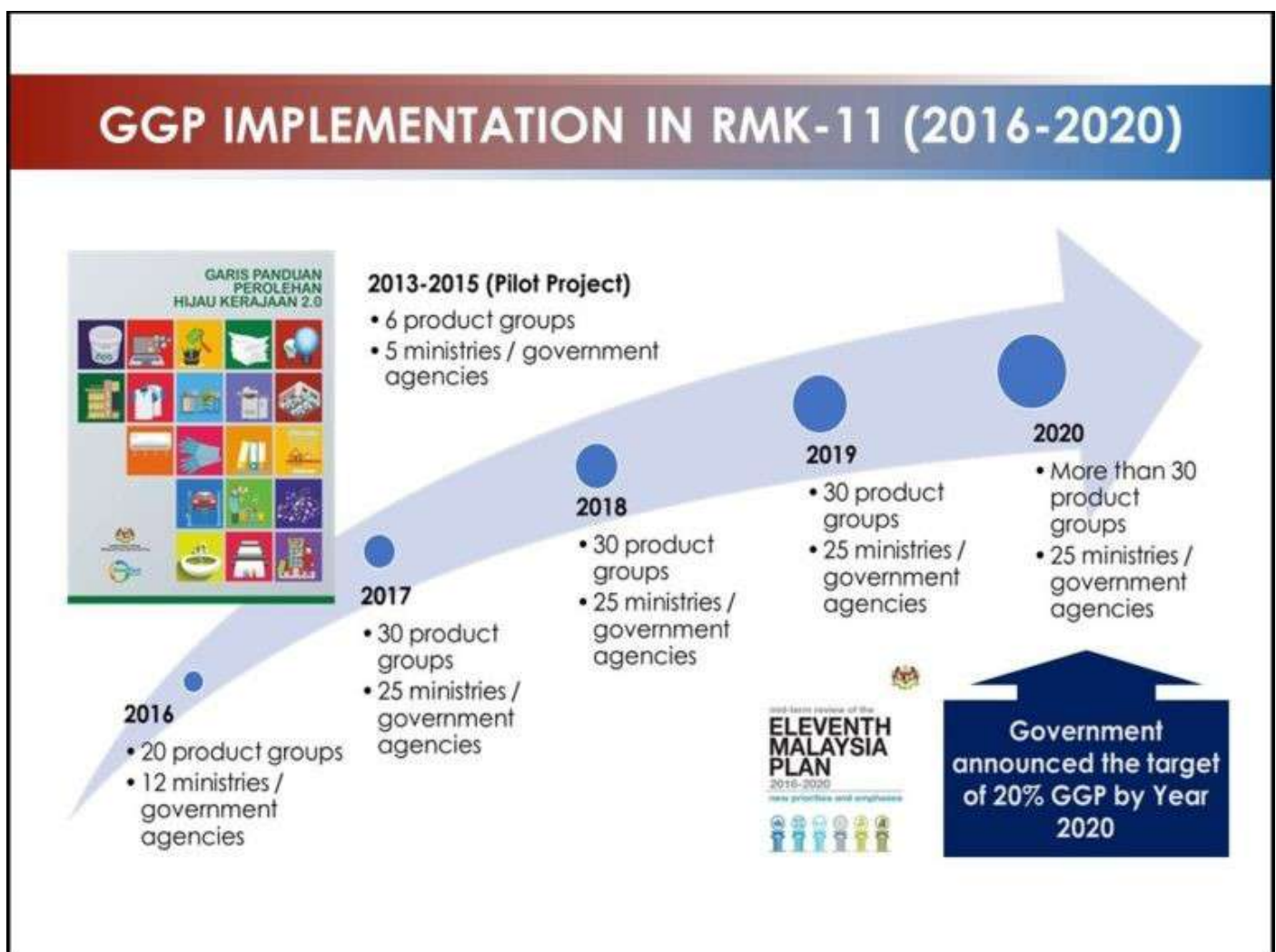
**Government Green Procurement (GPP)** is defined as procurement of products, services and works that take into account environmental criteria and standards for protecting the environment and natural resources and minimize or mitigate the negative effects of human activities. The 11th Malaysian Plan has stated the target for 20% GPP by 2020.

The implementation of GPP at the 12 ministries and their agencies in 2016 have resulted to cumulative value of GPP amounting RM482Million, with cumulative CO2 emission reductions of 100.431 ktonnes. Below are the top 5 GPP implementing agencies:

- 1) Ministry of Defense (MinDef)
- 2) Ministry of Health (MoH)
- 3) Ministry of Home Affairs (MOHA)
- 4) Ministry of Rural and Regional Development (KKLW)
- 5) Ministry of Urban Wellbeing, Housing and Local Government (KPKT);

In 2017, GPP implementation has been expanded to all government agencies with requirement for each ministry to incorporate green specification in the procurement of GPP product groups.

The progress of GPP can be shown as milestone below:



# FEATURED ARTICLE

## Green Procurement(Contd)

By: MyHijau

And the product group development can be shown as below:



## FEATURED ARTICLE

# Deforestation Rates in Malaysia Declined in 2020 Due to Impact From COVID-19

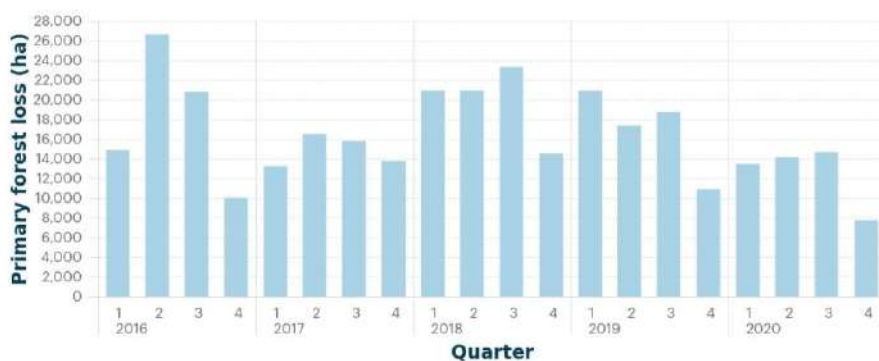
By: EARTH.ORG )

According to Satelligence, whose aim is to help combat deforestation via satellite monitoring, deforestation rates in Malaysia have significantly declined in 2020, despite fears of the impact of COVID-19.

### What is Happening?

- Based on automated analysis of tens of thousands of images from the Sentinel-1,2 and Landsat satellites over primary 'untouched' forest, Satelligence found that there were lower rates of primary forest loss in Malaysia, on average, in 2020 compared to the average loss from 2016-2019.
- Publicly available datasets, such as the latest tree forest loss dataset from Hansen et al., also indicate that primary forest loss has been less than in recent years.

Primary forest loss in oil palm sourcing areas



- In 2020, Sabah, Malaysia, saw a decrease in primary forest loss of 43.8% compared to the average yearly forest loss of 11.1% between 2016 and 2019.
- Satelligence has also found a reduction in the expected CO2 emissions for 2020 as a result of the decrease in primary forest loss in Malaysia. Approximately 6 million tonnes of CO2 was not emitted over 2020 due to the decrease when comparing the predicted emissions to the ones estimated based on actual forest loss.



SDG Corner

Did you know ?

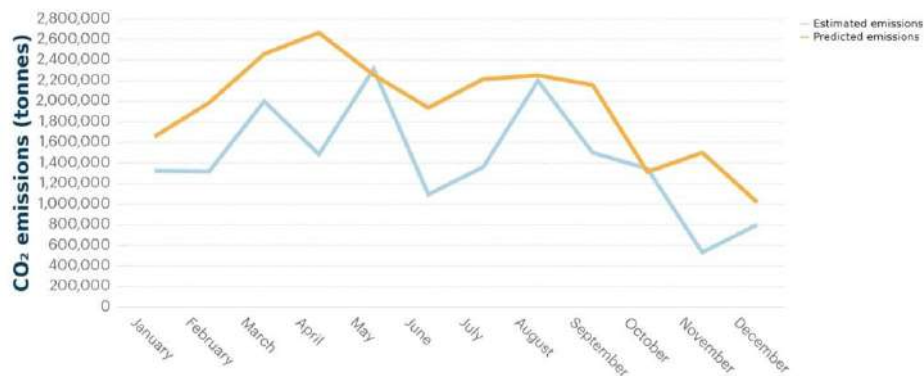


ONLY A THIRD OF 113 COUNTRIES WERE ON TRACK TO ACHIEVE THEIR NATIONAL TARGET TO INTEGRATE BIODIVERSITY INTO NATIONAL PLANNING

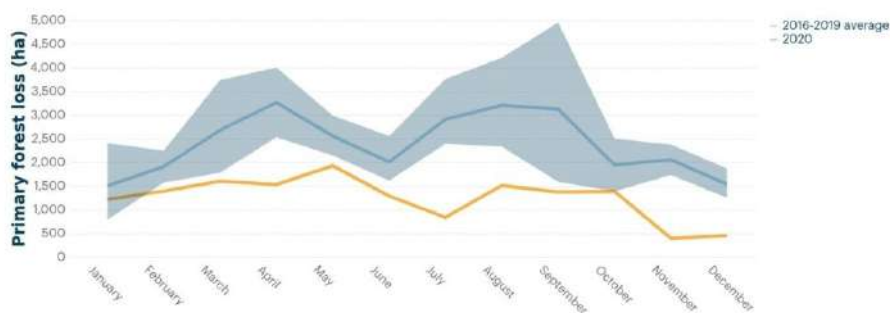
# FEATURED ARTICLE

## Deforestation Rates in Malaysia Declined in 2020 Due to Impact From COVID-19 (Contd)

By: EARTH.ORG



- Vassilis Prymidis, a data scientist at Satelligence, says, “We want to emphasise that satellite monitoring is able to capture trends, such as the impact of COVID, and the underlying incidents in real-time. This information can then be passed along to those in business and government who can take action.”
- He continues, “Our original prediction for 2020 was a continuation of the downward trend in deforestation of about -10% per year for Sabah, Malaysia, however, this was disrupted most probably due to the far-reaching effect of the COVID-19 pandemic. The actual decrease was much more than expected, at around -40%, so our updated model predicts a smaller decrease in deforestation for 2021, to compensate for that. Our updated model predicts a change of +12% primary forest loss in Sabah for 2021. What this number means is that, if the trends from recent years hold and we allow business as usual deforestation and forest degradation to resume, we may see an increase in forest loss for 2021 compared to 2020.” that primary forest loss has been less than in recent years.



- Palm oil producers, traders and buyers such as GAR, Bunge, AAK and Mondelez are working with local partners in the region to tackle deforestation. Sabah, Malaysia, has also set up an initiative to ensure the palm oil sector remains the state’s key economic driver while also working towards conservation and sustainability. The initiative will be implemented through the Jurisdictional Certification of Sustainable Palm Oil (JCSPO) and Malaysian Sustainable Palm Oil (MSPO) certification in Sabah.
- However, Satelligence have issued a disclaimer saying that these predictions are “only estimates and do not take into account many important variables such as global trends on demand of relevant commodities, government regulations and the pandemic.”

## FEATURED ARTICLE

# Now is the Time for Action—Press Release Reproduced

*By: Antonio Guterres (Secretary-General of the United Nations) - Article by The Star : 19th April 2021*

In this pivotal year for humanity, now is the time for bold climate action. The science is irrefutable and globally agreed: to stop the climate crisis from becoming a permanent catastrophe, we must limit global heating to 1.5°C.

To do this, we must get to net zero emissions of greenhouse gases by mid-century. Countries making up two-thirds of the global economy have committed to do so. This is encouraging, but we urgently need every country, city, business and financial institution to join this coalition and adopt concrete plans for transitioning to net zero.

Even more urgent is for governments to match this long-term ambition with concrete actions now, as trillions of dollars are mobilised to overcome the Covid-19 pandemic. Revitalising economies is our chance to re-engineer our future.

The world has a strong framework for action: the Paris Agreement, in which all countries committed to set their own national climate action plans and strengthen them every five years. Over five years later, and with damning proof that if we don't act we will destroy our planet, it is time for decisive and effective action as the United Nations convenes all countries in Glasgow in November for COP26 (conference of parties 26).

The new national plans must cut global greenhouse gas pollution by at least 45% by 2030 compared to 2010 levels. Many have been presented already, and set out clearer policies to adapt to the impacts of climate change and boost access to renewable energy.



But so far, those plans achieve less than a 1% cut in emissions. This is a true red alert for people and planet.

In the months ahead, governments must dramatically step up their ambitions – particularly the biggest-emitting countries that have caused the vast bulk of the crisis.

Phasing out coal from the electricity sector is the single most important step to get in line with the 1.5°C goal. Immediate action to remove the dirtiest, most polluting fossil fuel from power sectors offers our world a fighting chance.

## FEATURED ARTICLE

# Now is the Time for Action—Press Release Reproduced

*By: Antonio Guterres (Secretary-General of the United Nations) - Article by The Star : 19th April 2021*

Global coal use in electricity generation must fall by 80% below 2010 levels by 2030. This means that developed economies must commit to phase out coal by 2030; other countries must do this by 2040. There is simply no reason for any new coal plants to be built anywhere. One third of the global coal fleet is already more costly to operate than building new renewables and storage. COP26 must signal an end to coal.

The countries that contributed least to climate change are suffering many of the worst impacts. Many small island nations will simply cease to exist if we don't step up the response. Developed countries must deliver on their commitments to provide and mobilise US\$100bil (RM412.6bil) annually by: doubling current levels of climate finance; devoting half of all climate finance to adaptation; stopping the international funding of coal; and shifting subsidies from fossil fuels to renewable energy.

The G7 Summit in June offers the opportunity for the world's wealthiest countries to step up and provide the necessary financial commitments that will ensure the success of COP26.

While governments must lead, decision-makers everywhere have a vital role to play.

I ask all multilateral and national development banks, by COP26, to have clear policies in place to fund the Covid-19 recovery and the transition to resilient economies in developing countries, taking into account crippling debt levels and huge pressures on national budgets.

Many local governments and private businesses have committed to net zero emissions by 2050, and have engaged in significant reviews of their business models. I urge all to set ambitious targets and policies.

I encourage young people everywhere to continue to raise their voices for action to address climate change, protect biodiversity, stop humanity's war on nature and accelerate efforts to achieve the Sustainable Development Goals.

Time is running out, and there is much hard work ahead, but this no time to raise the white flag. The United Nations will keep flying our blue flag of solidarity and hope. Ahead of Earth Day on Thursday and over the crucial months ahead, I urge all nations and all people to rise together for this moment.

ANTÓNIO GUTERRES, Secretary-General of the United Nations



SDG Corner

### Goal 13: Climate action (Global Target)

- Strengthen resilience and adaptive capacity to climate-related hazards and natural disasters in all countries
- Integrate climate change measures into national policies, strategies and planning
- Improve education, awareness-raising and human and institutional capacity on climate change mitigation, adaptation, impact reduction and early warning
- Implement the commitment undertaken by developed-country parties to the United Nations Framework Convention on Climate Change to a goal of mobilizing jointly \$100 billion annually by 2020 from all sources to address the needs of developing countries in the context of meaningful mitigation actions and transparency on implementation and fully operationalize the Green Climate Fund through its capitalization as soon as possible
- Promote mechanisms for raising capacity for effective climate change-related planning and management in least developed countries and small island developing States, including focusing on women, youth and local and marginalized communities

**COVID-19**  
#KitaTeguhKitaMenang

# JANGAN LEKA DAN ALPA, KITA BELUM MENANG



Kementerian  
Kesihatan  
Malaysia



MYHEALTHKKM



SCAN ME

**COVID-19**  
#kitateguhkitamenang

# PAKAI PELITUP MUKA LINDUNGI DIRI DAN ORANG LAIN

Tanpa  
pelitup muka



**RISIKO JANGKITAN**

**TINGGI**



Tanpa  
pelitup muka

Dengan  
pelitup muka



**SEDERHANA**



Tanpa  
pelitup muka

Dengan  
pelitup muka



**RENDAH**



Dengan  
pelitup muka



Kementerian  
Kesihatan  
Malaysia



MYHEALTHKKM



SCAN ME



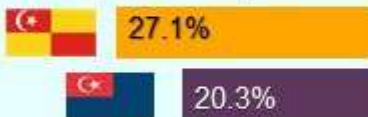
## SUMMARY OF FINDINGS : SPECIAL SURVEY 'EFFECT OF COVID-19 ON ECONOMY AND INDIVIDUAL'

### PROFILE

168,182 respondents



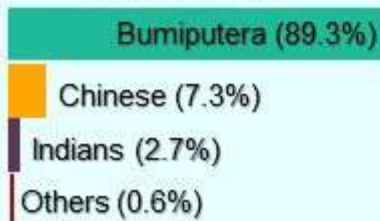
Two States With Highest Response



Sex



Ethnic Group



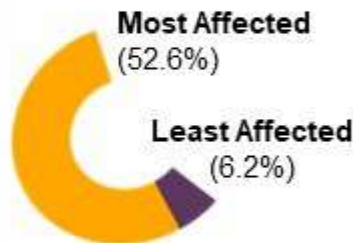
Employment Status



Note: Civil Servants are not included in this analysis (\*)

### \* SAVINGS READINESS

Financial Impact



Self-employed (50.4%) and employer (51.1%) are not financially ready if Total Lockdown implemented

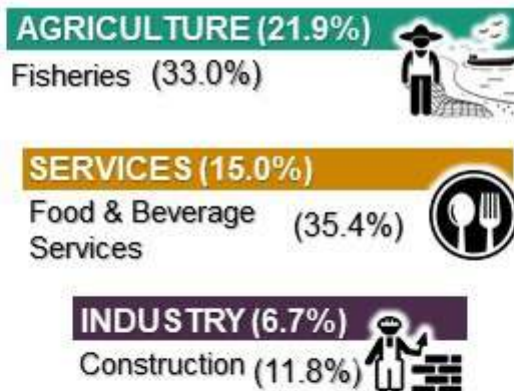
Savings Readiness Duration



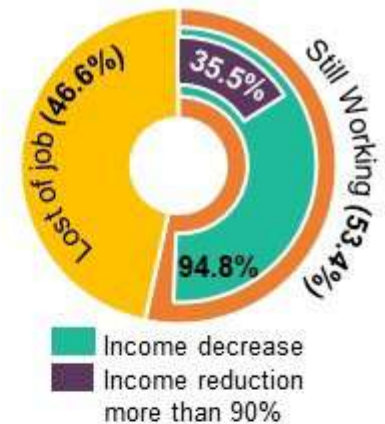
Employment Status

### \* EMPLOYMENT

Percentage of Workers Who Lost Their Job by Main Sector



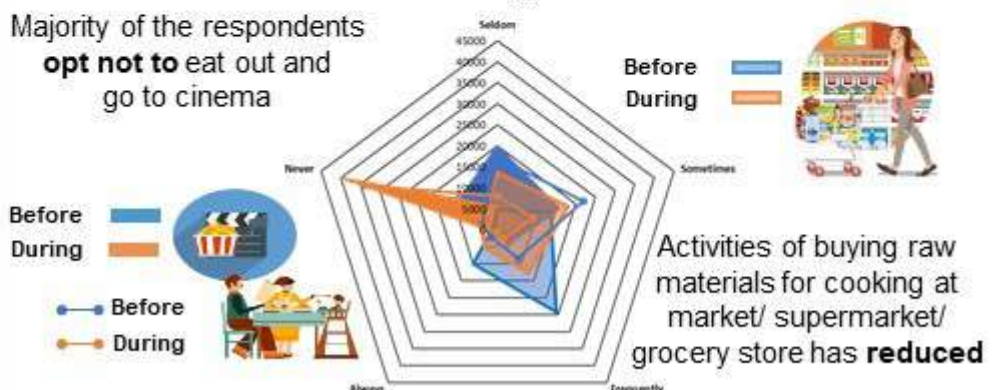
Impact on Own Account Worker



### \* SPENDING PATTERN

Changes in spending pattern are significant before and during COVID-19

Majority of the respondents opt not to eat out and go to cinema



Disclaimer: The analyses presented are based on respondents who participated in this survey and cannot be generalised to represent the views of all Malaysians. It should be interpreted with caution to assess the impact of Covid-19 in Malaysia and not as official statistics.



# PAST EVENTS & ACTIVITIES

## *Qual2k River Water Quality Modelling Training*

The Qual2k River Water Quality Modelling was conducted on 30th and 31st December 2020 by our experienced trainer in water quality modelling, Ir Dr Zaki Zainuddin. He conducted the training of water quality modelling, sharing his experience in the application of QUAL2K to assess water quality and pollution load. The training was held in Dorsett Hotel Putrajaya, with full house response, attended by a total of 25 participants that consisted of consultants, lecturers and students. We thank everybody for their continuous support of our training.



**ENSEARCH is on WHATSAPP [be on OUR MAILING LIST!]**

We update our members and friends via Whatsapp!

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**ENSEARCH Mobile Number: +6016 278 0191**

Not our Member? Don't worry. You could still be on our mailing list. Please fill in this e-form:

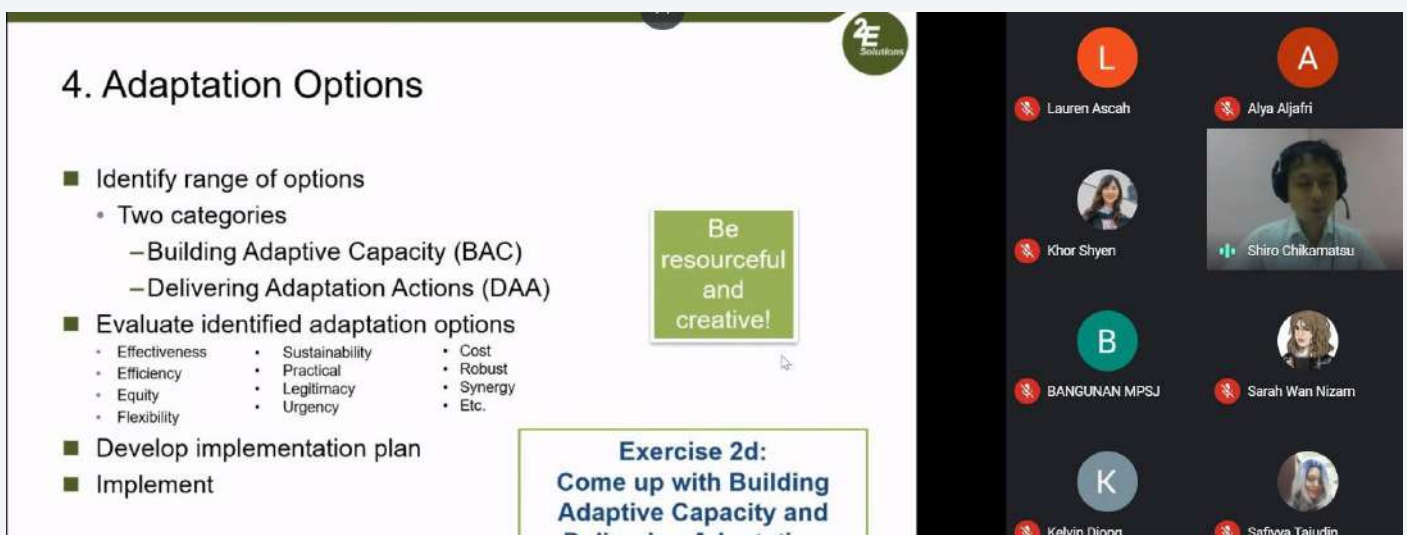
<https://goo.gl/bvtTF7>

# PAST EVENTS & ACTIVITIES

## **ENSEARCH : Virtual Training** **Climate Change Adaptation: Strategies and Plans for Malaysian Companies and Green Logistic: Beginner Training**

ENSEARCH has successfully organized two Online Training via Google Meet :

1. Climate Change Adaptation: Strategies and Plans for Malaysian Companies held on 16th of March 2021. This was conducted by Mr. Shiro Chikamatsu, a Japanese expert who has lived in Malaysia for more than 7 years and has been involved directly in National and Global projects related to Climate Change .
2. Green Logistic : Beginner Training by our expert trainer, Dr Hari Ramalu Ragavan on 18th and 19th March 2021.



*The Climate Change Training introduced participants to some of the tools and strategies that could prepare businesses to be prepared such that nothing will come as an “unforeseen event”.*



*This training takes the learners through the green logistics overall link with Sustainable Development Goals, market demand and regulatory requirements and to the internal policies, plans and process. These include road freight transport best practices, vehicle, personnel and technology management.*

## PAST EVENTS & ACTIVITIES

### *Surface Water Quality Assessment Training*

ENSEARCH again thanks Ir Dr Zaki Zainuddin for taking time to give this training which was successfully organized on 23rd and 24th March 2021 at Armada Hotel, Petaling Jaya. The objective of this training was to introduce water quality assessment procedures from preliminary field survey, sampling, preservation, laboratory analysis to standards and regulations. This training was to discuss physical, chemical and biological water quality parameters and kinetic processes; their derivation, significance and applications.



*Ir Dr Zaki explained on how to establish pollution load and waste assimilative capacity (WAC) considerations; in synergy with the TMDL philosophy*

**15th March 2021** : ENSEARCH had been invited by Persatuan Wira Air Forum Air (SPAN) to participate in their webinar on “2021 Valuing Water – Health and Clean Water”. ENSEARCH was represented by Dr Subramaniam Karuppaannan, an EHS expert and ENSEARCH Council Member, the webinar was moderated by Mr Imran Fauzi from Persatuan Wira Air Forum Air (SPAN). ENSEARCH would like to thank Persatuan Wira Air Forum Air (SPAN) for their kind invitation.



## PAST EVENTS & ACTIVITIES

### EIA and Post EIA Compliance Requirements Training

Training on EIA and Post EIA Compliance Requirements was successfully conducted by ENSEARCH on 30th and 31st March 2021 with full house response of 39 participants in attendance. The training was conducted by Ms. Geetha P. Kumaran, ENSEARCH Council Member. She has been an Environmental Consultant registered with the DOE since 1992 and has been directly involved in projects pertaining to EIAs, Post EIAs, EMPs, related studies and also for projects involving wastewater treatment systems. She has been registered with DOE as an EIA consultant since 1st June 2007.



*This training gave the participants an in-depth understanding of Environmental requirements in Malaysia and Post EIA requirements in Malaysia. The training was held with case studies examples, interactive participation and informal discussions.*

**97 COUNTRIES SIGNED THE AGREEMENT ON PORT STATE MEASURES,  
THE FIRST BINDING INTERNATIONAL AGREEMENT  
ON ILLEGAL, UNREPORTED AND UNREGULATED FISHING**



## PAST EVENTS & ACTIVITIES

### Air Pollution Assessment Level 3 (Advanced)

The Air Pollution Assessment Training series come to an end with the last Air Pollution Assessment Level 3 (Advanced) attended by 18 participants on 06th April 2021, held at Bilik Seminar 1, Kelab Golf Negara Subang, Selangor. The model chosen to be introduced during the Air Pollution Level 3 training is the USEPA AERMOD air quality model, which was presented by ENSEARCH Vice President, Mr Tan Poh Aun. He, with the help of his two staff, covered in detail, demonstrating USEPA AERMOD software with every participant having a chance to try the software.



### Back by Popular Demand!



Training on Applying ISO 45001 for Risk Management  
(18th - 19th May 2021)- **CLASSROOM** (CPD APPLIED)

◇◇ Please make your way to [www.ensearch.org](http://www.ensearch.org) for the latest updates! ◇◇

## PAST EVENTS & ACTIVITIES

### Forum on Sewage Treatment Plants in Malaysia : Pollution Prevention and Developing a Green Resource

ENSEARCH has successfully organized a "Forum on Sewage Treatment Plants in Malaysia : Pollution Prevention and Developing a Green Resource " on 8th April 2021, at Dewan Tunku, Kelab Golf Negara Subang, Selangor with a very good response.

A total number of 130 people inclusive of Participants, Speakers and Panelist, Guest and Exhibitor attended this Forum. Distinguished guests and panelists invited to the Forum included Ir Sobri Zakaria (Executive Director of Water and Sewerage Regulatory Department), Tuan Haji Shafe'ee Yasin (Director of Enforcement of DOE), Mr Narendran Maniam (CEO of Indah Water Konsortium), Ir Dr Lee Yun Fook (Director of Sepakat Setia Perunding Sdn Bhd) and Datuk Ir Abdul Kadir Md Din ( President of Malaysia Water Association).

A knowledge-filled sharing by the speakers included a fruitful panel session. We aim for more interactive forums and dialogues in the future, promoting effective ways to manage the impacts of human activities on the environment. We thank each and everyone for the continuous support to ENSEARCH's events and activities.



*From left : ENSEARCH Vice President , Mr Tan Poh Aun, Ir Dr Lee Yun Fook, Mr Narendran Maniam, Ir Sobri Zakaria, Datuk Ir Abd Kadir Md Din, En Abxul Aziz Long, Ms Geetha Kumaran and Dr Subramaniam Karuppanan*



*Active participation from the attendees.*



*Tuan Haji Shafe'ee answered the question from participants who attended the forum*



## TRAINING CALENDAR YEAR 2021

### MARCH

1) **Green Logistic (Beginner Level)** (09th - 10th March 2021) - **ONLINE**

Trainer: Dr. Hari Ramalu Ragavan

2) **Climate Change Adaptation: Strategies and Plans for Malaysian Companies** (16th March 2021) - **ONLINE**

Trainer: Mr. Shiro Chikamatsu

3) **Surface Water Quality Assessment** (23rd - 24th March 2021)- **CLASSROOM**

EiMAS/2020/CPD573/1 (12 CPD hours) \*\* **FULL HOUSE**

Trainer: Ir. Dr. Zaki Zainudin

4) **EIA and Post EIA Compliance Requirements** (30th - 31st March 2021) - **CLASSROOM**  
(EiMAS/2020/CPD571/1 (12 CPD hours) - \*\***FULL HOUSE**

Trainer: Ms. Geetha P. Kumaran

### APRIL

1) **Air Pollution Level 3** (Advance Level) (06th April 2021) - **CLASSROOM** (CPD Applied)

Trainer: Mr Tan Poh Aun

2) **Forum on Green Sewage Treatment Plants in Malaysia : Pollution Prevention and Developing a Green Resources** (08th April 2021) -**PHYSICAL FORUM** (CPD Applied)

### MAY

1) **Training on Applying ISO 45001 for Risk Management in Avoiding Major Accidents Caused by Industrial Hazardous Materials(Advance Level)** (18th - 19th May 2021) - **CLASSROOM** (CPD Applied)

Trainer: Dr Subramaniam Karuppanan

2) **ENSEARCH Environmental Talk and Annual General Meeting 2021/2022**

### JUNE

1) **GIS for Environmental Management: An Introductory** (9th and 10th June 2021)- **CLASSROOM** (TBC)

Trainer: Prof Tuong Thuy Vu

2) **Introduction to Environmental Auditor** (15th - 16th June 2021) - **CLASSROOM**

Trainer : Puan Badariah Perunding Alam

3) **Fundamental of Quantitative Risk Assessment and its Application from an EIA Perspective**  
(22nd June 2021) - **CLASSROOM**

Trainer : Ts Adnan Yusop Ali

**ENSEARCH Trainings are HRDF Claimable,**

**\*\*Due to MCO, all the January Trainings has been rescheduled to upcoming months**

**\*\*PROGRAMMES ARE SUBJECT TO CHANGE**

**EiMAS CPD Points would be applied for.**

For more information about our association, kindly visit [www.ensearch.org](http://www.ensearch.org)

For more information about training, kindly email to [po-training@ensearch.org](mailto:po-training@ensearch.org) or call us at +603-61569807



# TRAINING CALENDAR YEAR 2021

## JULY

1) **Green Procurement** (06th and 07th July 2021) - **CLASSROOM (TBC)**  
Trainer: Dr Hari Ramalu Ragavan

2) **Environmentally Friendly Chemicals in Effluent Treatment** (13th and 14th July 2021)  
- **CLASSROOM (TBC)**  
Trainer: Mr Mohamed Abdul Kaleem

## AUGUST

1) **Scheduled Waste Management Training** (04th and 05th August 2021)  
- **CLASSROOM (TBC)**  
Trainer: Ms Geetha P Kumaran

2) **Life Cycle Assessment in Malaysia** (24th and 25th August 2021)- **CLASSROOM (TBC)**  
Trainer : Prof Dr Sumiani Yusoff

## SEPTEMBER

1) **Environment Aspect and Impact Awareness (EASI) Training** (07th and 08th September 2021)  
- **CLASSROOM (TBC)**  
Trainer: Dr Subramaniam Karuppanan

2) **Noise Hazard & Impacts on Environmental Issue in Malaysia** (22nd and 23rd September 2021)  
- **CLASSROOM (TBC)**  
Trainer: Mr. Tan Poh Aun

## OCTOBER

1) **Enhancing Schedule Waste Spill Response Management (ESWSRM) Training**  
(12th, 13th and 14th October 2021) - **CLASSROOM (TBC)**  
Trainer: Dr Subramaniam Karuppanan

2) **Droners Application in Environmental Health Field in Malaysia** - **CLASSROOM (TBC)**  
Trainer: Mr. Mohd Fuad

## NOVEMBER

1) **Forum on Industrial Waste in Malaysia @ Johor Bahru** - **PHYSICAL FORUM (TBC)**

## DECEMBER

1) **Legal Compliance on Air Quality Management** - **CLASSROOM (TBC)**  
Trainer: Dr. Juliana Jalaluddin

**ENSEARCH Training are HRDF Claimable,**  
**\*\*PROGRAMMES ARE SUBJECT TO CHANGE**  
**EiMAS CPD Points would be applied for.**

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For more information about training, kindly email to [po-training@ensearch.org](mailto:po-training@ensearch.org) or call us at +603-61569807



# ENSEARCH SEMINAR/TRAINING 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

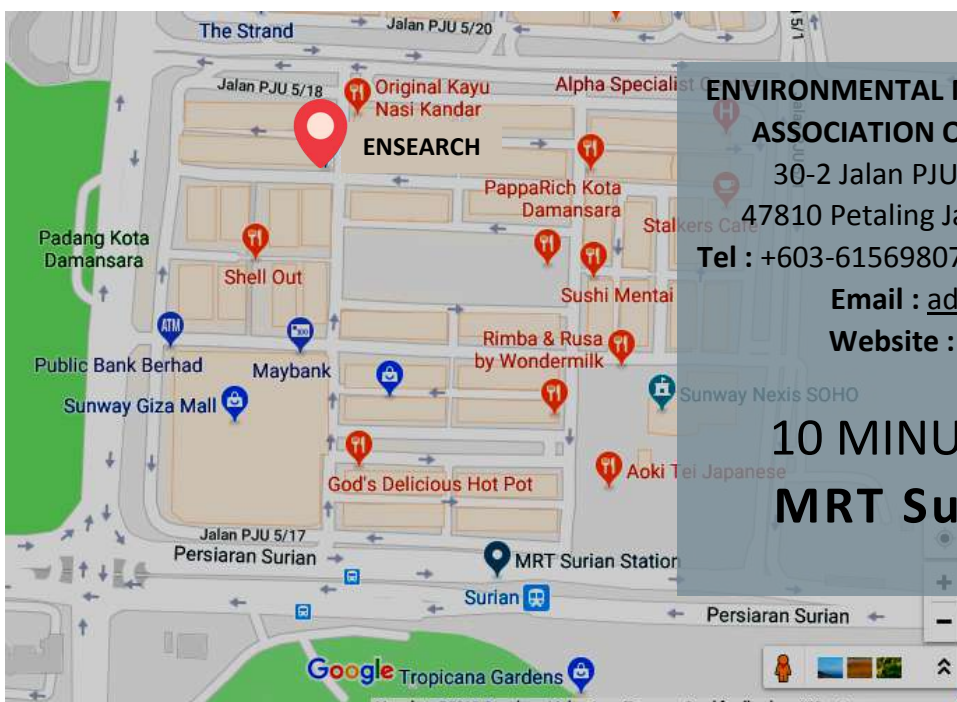
Prayer Room



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,  
47810 Petaling Jaya, Selangor Darul Ehsan.  
Tel : +603-61569807 / 08 Fax : +603 - 61569803  
Email : [admin@ensearch.org](mailto:admin@ensearch.org)  
Website : [www.ensearch.org](http://www.ensearch.org)

**10 MINUTES walk from  
MRT Surian Station**

## Interested?

Please drop us an email at [admin@ensearch.org](mailto:admin@ensearch.org) or call us at +603-61569807.

# ENSEARCH COUNCIL 2020-2021

<b>PRESIDENT</b>	: Mr Gobinathan Kumaran Nair
<b>VICE PRESIDENT</b>	: Datuk Ir Othman Bin Abdul Rahim
<b>VICE PRESIDENT</b>	: Mr Tan Poh Aun
<b>HON. SEC. GENERAL</b>	: Encik Zaipul Anwar Zainu
<b>HON. TREASURER</b>	: Mr Kelvin Diong Siong Loong

## COUNCIL MEMBERS

Ms Geetha P. Kumaran

Encik Abdul Aziz bin Long

Encik Mohamed Siraj Abdul Razack

Ir Lee Heng Keng

Dr Subramanian A/L Karuppanan

Dr Hari Ramalu Ragavan

Mr Peter Toh Zhao Sing

## CO-OPTED MEMBERS

Ir Elias Saidin (Intermediate Past President)

Puan Ruhaidah Md Hassan (Indah Water Konsortium Sdn. Bhd. Rep)

Ms Jenny Tan

Cik Natasha Manan

# ENSEARCH SECRETARIAT



## EXECUTIVE SECRETARY & ACCOUNTS :

Cik Vishal Singam

## PROJECTS OFFICER:

Encik Mohamad Amirul Asraf Kamarudin

## ENVIRONMENTAL MANAGEMENT & RESEARCH

### ASSOCIATION OF MALAYSIA (ENSEARCH)

30-2, Jalan PJU 5/16, Dataran Sunway,  
Kota Damansara, 47810 Petaling Jaya,  
Selangor Darul Ehsan.



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admin@ensearch.org



www.ensearch.org



ENSEARCH Resident

## Brief History of ENSEARCH

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

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

In addition, ENSEARCH organizes Tea Talks and Public Lectures to enhance awareness on pertinent and comprehensive issues on the environment. ENSEARCH has also been actively involved in dialogue sessions with relevant authorities in development of legislative and regulatory frameworks that strengthen the environmental management practices in Malaysia. In recognition of ENSEARCH's objectives, it has been given tax-exempt status whereby the donations to ENSEARCH are exempted from tax.