

# BERITA ENSEARCH

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

## Editor's note

Our Prime Minister, YAB. Dato' Sri Ismail Sabri Yaakob on September 27, 2021 has tabled the 12th Malaysia Plan (12MP) in Parliament, with a pledge for Malaysia to "become a carbon neutral country by 2050 at the earliest" listed alongside other measures to accelerate green growth.

In his parliamentary speech, he said although Malaysia only contributes 0.7 per cent of global greenhouse gas emissions, the government would continue to fulfill its commitment to reduce its greenhouse gas emission intensity of GDP by 45 per cent by 2030.

ENSEARCH has also participated in this agenda by organizing relevant courses such as Life Cycle Assessment in Malaysia, Climate Change Adaptation: Strategies and Plans for Malaysian Companies, and Introduction to Sustainable Financing. Other than following the Prime Minister's call, the courses and training held by ENSEARCH have also benefited more than 500 participants, Members and Non – Members.

In this Q4/2021, we bring you the topic of "Can Malaysia Achieve Net-zero Carbon Emission by 2050?" quoted from Energy Watch e-bulletin. Perhaps it gives us additional knowledge about Net-zero Carbon emissions by 2050.

To all ENSEARCH's Christian members, we wish all of you Merry Christmas and we also wish all ENSEARCH's Members a blessed and great year of 2022. Happy New Year and Happy Holiday!! We wish to all keep continued good health, be safe, stop the spread, and maintain SOPs at all times.

**Puan Badariah Awang Kechik**

Publication & Website Committee

## in this issue

### 1) FEATURED MEMBER

- ***Dr Md Salim Khan***
- ***MSK Associates Sdn Bhd***  
page 02

### 2) FEATURED ARTICLES

- ***Can Malaysia Achieve net Zero Carbon Emission by 2050?***  
page 04

### 3) ENSEARCH COVID19 PUBLIC AWARENESS

page 08

### 4) PAST EVENTS & ACTIVITIES

page 11

### 5) ENSEARCH CALENDAR 2021

page 13

### 6) ENSEARCH COUNCIL MEMBERS

Page 15

### 7) ENSEARCH SECRETARIAT

page 16



## 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.

# FEATURED MEMBER

## Dr Md Salim Khan (ENSEARCH Active Member)



Dr Md Salim Khan is one of ENSEARCH's active members. He has been with ENSEARCH since 2008. He is an expert in flora and fauna study and wide experience in handling variety of environmental studies such as Environmental Impact Assessment (EIA), Erosion and Sediment Control Plan (ESCP) and other Department of Environment (DOE) studies. He is a registered EIA consultant under DOE. He holds a doctoral degree in Fisheries from University Putra Malaysia since 1993.



**MSK & ASSOCIATES**  
Professional EIA Consulting Firm

Dr Md Salim Khan was born on 01<sup>st</sup> March 1958. He attended his degree study in Agricultural University. In 1986, he further his master and doctoral degree study at Universiti Putra Malaysia (UPM). He also obtained professional qualification as Certified Professional in As an industry player, he started his career as a Project Leader – Environment & Conservation Unit in Asian Wetland Bureau (AWB), currently known as Wetlands International Asia & the Pacific, Institute of Advanced Studies, University of Malaya. In 1994, he joined UTEG Consultants Sdn Bhd as Senior Environmental Scientist. In July 1995, he officially registered an EIA consulting company, namely MSK & Associates Sdn Bhd. He is actively involving in EIA study for variety of projects such as coastal resorts, highway & bridge, mining, quarry, recycling, scheduled waste, logging, sand dredging and etc.



*Dr Salim's Site Visit for Pulau Perhentian Project*

***“Knowledge and experience are power of souls”***

*- Dr Md Salim Khan-*

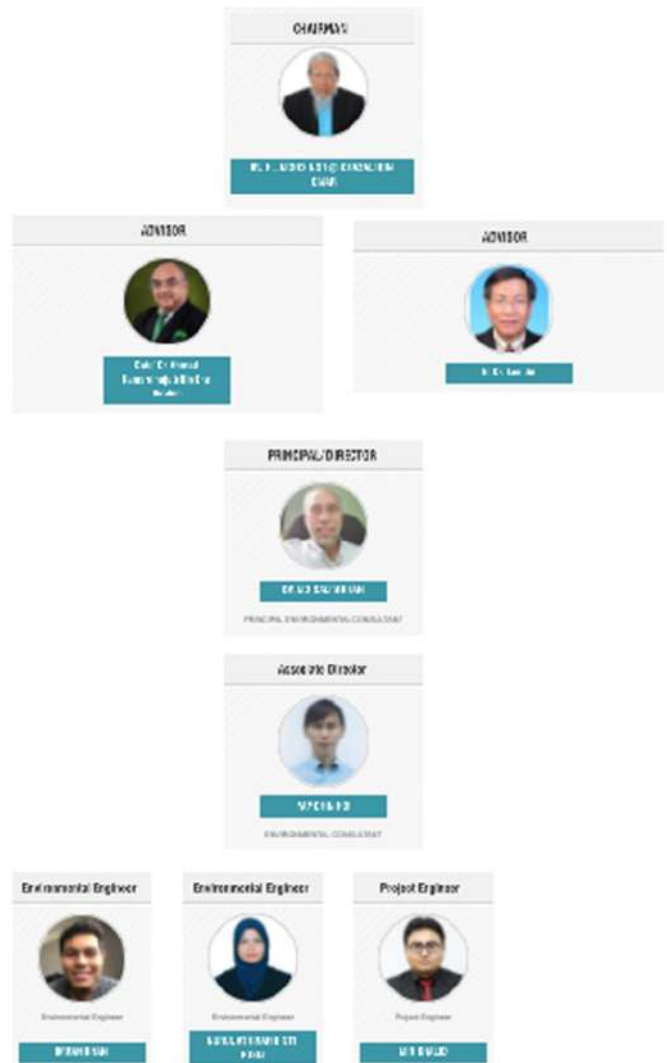
# FEATURED MEMBER

## MSK & ASSOCIATES SDN BHD (ENSEARCH Corporate Member)



*MSK & Associates Sdn Bhd company logo*

MSK & Associates Sdn Bhd (MSK) is a local environmental consultancy firm based in Petaling Jaya, Selangor. It has embarked its journey since July 1995 and since then has putting their footprints in Peninsular Malaysia. MSK’s core objectives are to assist its clients with high quality services in a very precise, practical and competitive form. MSK knowledge and expertise in this field has enabled MSK to produce better quality reports which, are usually approved by the Department of Environment Malaysia. MSK is one of the leading EIA Consultant firms dealing with a range of development projects including residential and property, roads and highway, coastal and offshore oil and gas exploration, dredging, industrial, quarry and other prescribed activities that are subject to environmental studies under ‘Environmental Quality (Prescribed Activities) (Environmental Impact Assessment) order 2015’.



*MSK Organization Chart*

MSK is offering a wide range of environmental consultancy services including Environmental Impact Assessment (EIA), Erosion and Sediment Control Plan (ESCP), Social Impact Assessment (SIA), Traffic Impact Assessment (TIA), Scheduled Waste Management, Solid Waste Management, Post-EIA Environmental Monitoring and Environmental Auditing. MSK’s clients are Hanson Quarry Products Sdn Bhd, Batu Tiga Quarry Sdn Bhd, Ahmad Zaki Sdn Bhd, SN Akmida Holdings, Bridge Data Centres Sdn Bhd and other established companies in Malaysia



*Dr Salim Khan and Mr Yap Chip Hoi are the main backbones for MSK Associates Sdn Bhd*

# FEATURED ARTICLE

## ***Can Malaysia Achieve Net-zero Carbon Emission by 2050?***

*Author: Energy Watch*

Last month (August 2021), power heads across Malaysia came together to discuss the country's carbon journey as part of a roundtable series by Climate Governance Malaysia.



It was acknowledged that the largest contributor of greenhouse gas (GHG) emissions is the power sector. 72% of emissions stem from energy production; the remaining being caused by activities like farming, livestock, and chemical reactions necessary to produce goods and raw materials.

Despite this, the power sector is seen as the easiest sector to decarbonise. “GHG emissions can be reduced through greater electrification, especially in transport and industry; alongside using renewable energy as a source of power,” said Adnan Zainol Abidin, Executive Vice President & CEO at Gas & New Energy, PETRONAS.

### **Priming for solar's popularity**

In Malaysia, more than 90% of the nation's new renewables requirements consist of solar energy. “As much as solar has a high potential, SEDA is also trying to explore a more diversified mix of hydro, biomass, and biogas,” shared Ibrahim Ariffin, Director of Strategic Planning at the Sustainable Energy Development Authority (SEDA).



“However, looking at years of our Feed-in-Tariff (FiT) operation, the prices of these resources are not going down, mainly due to additional fuel supply arrangements and environmental contribution requirements,” he added.

Davis Chong, President of the Malaysian Photovoltaic Industry Association (MPIA) stated, “It is proven that solar is the winner in terms of renewables in Malaysia. It is the best renewable energy to deploy in terms of cost and implementation scalability. From the demand side, the Large-Scale Solar (LSS) and FiT pickup rate shows that the market wants much more than what we can supply.”

# FEATURED ARTICLE

## ***Can Malaysia Achieve Net-zero Carbon Emission by 2050?***

*Author: Energy Watch*

### **The true cost of integrating solar**

Today, the penetration limit of solar PV into the grid is set at 24%. The rationale for this limit is centred on system readiness, as Malaysia's grid is not yet equipped to handle high amounts of variable renewable energy like solar.

Noor Afifah Abdul Razak, Deputy Secretary General of the Ministry of Energy and Natural Resources (KeTSA) further elaborates, "While it is true that the cost of solar has gone down by 59.4% since we first launched our large-scale solar (LSS) in 2016, we are seeing an increase in the cost of integrating solar into our system. Having more solar also requires increasing the robustness of our grid, digitisation upgrades, and ramping up our capacity as we need to address the intermittency of solar."

Charanjit Singh, Chief Executive Officer at Single Buyer agreed, saying, "We are supportive of renewables, but the costs of going solar without any barriers will have implications. The costs are real, and so are issues relating to system stability."

**"HAVING MORE SOLAR ALSO REQUIRES INCREASING THE ROBUSTNESS OF OUR GRID, DIGITISATION UPGRADES, AND RAMPING UP OUR CAPACITY AS WE NEED TO ADDRESS THE INTERMITTENCY OF SOLAR."**

### **Opening market access**

Initiatives like Tenaga Nasional Berhad (TNB)'s Grid of the Future are seen as crucial investments to upgrade existing infrastructure to be renewables-ready. However, the cost for such an enormous task remains a complex subject. Which party should bear the cost of the investment – Government, consumers, private players, or all three?

Dr. Jay Mariyappan, Head at New Energy, PETRONAS shared, "Electricity pricing should be true to the market and devoid of implicit subsidies. A lack of competition in the distribution sector and persistent underpricing of electricity have weighed on performance in some markets."

Dr. Jay also stated that by limiting the solar penetration at 24%, the investment landscape is affected. He argues that by opening market access and deregulating the market, greater efficiency and affordability can be achieved through competition. Additionally, he stated, "In regulated markets, unbundling our electricity systems is key. Third party access and deregulated retail segments should be implemented to accelerate growth of renewables."

According to Charanjit however, the industry needs to proceed with caution: "If we are trying to veer away from the market that exists now, to a more open market – theoretically, cost could come down with more players, but that is not a given. So policymakers have to balance these two ends of the equation carefully. We need to be mindful of these constraints".

# FEATURED ARTICLE

## **Can Malaysia Achieve Net-zero Carbon Emission by 2050?**

*Author: Energy Watch*

### **Ancillary services to enable solar**

Battery storage is one solution to unlocking solar's potential. According to the Energy Commission's 18-year plan, battery storage systems will be introduced from 2030 onwards to support the influx of renewables.

Charanjit shared, "In Western Australia, operators were able to smoothen the curve of solar intermittency by incorporating battery storage into its system. Breakthrough for solar will really come when battery storage costs decrease significantly."

Ibrahim added, "During the third round of the Large-Scale Solar (LSS) tenders, none of the applicants attached a storage mechanism to its proposal. This was due to the cost at that time; hence a cost recovery mechanism is needed."

The solution may lie in delivering correct market signals to private players. "In the UK, investors now have the right market signals that tell them that energy storage is a go from an economic view. So you'll see LED storage increasingly being incorporated into the system. Companies are becoming more innovative in coming up with Behind-the-Meter solutions," pointed Dr. Jay.

David concurred, adding, "There are a lot of investors interested in enabling renewables capacity into the grid, so we need to open these opportunities to the market. A lot of countries have also been selling storage as a subscription or service model. This is something we can explore in Malaysia where huge capital expenditure is not required from the authority's side to enable greater energy storage."

Charanjit concluded, saying "Ultimately the theme is to move from centralised to decentralised setup. Going forward from a Single Buyer market, this movement of allowing investment by other parties to provide ancillary services like battery storage is definitely an option to explore."



# FEATURED ARTICLE

## ***Can Malaysia Achieve Net-zero Carbon Emission by 2050?***

*Author: Energy Watch*

### A message to the private sector

Today, corporations like PETRONAS are already embarking on a green transition, and fast. “Petronas is the first gas company in Asia to set a net-zero target, with plans to greenify their assets both onshore and offshore, including the supply of renewable energy,” stated Dr. Jay.

Most multinational companies and RE100 companies have already set forth sustainability initiatives. To support these corporations, green power purchase & sale agreements between corporations are encouraged, and the Government should explore implementing renewable purchase obligations or certificate schemes.

As regulators and authorities join heads to determine the country’s carbon-zero future, consideration must be given to the social, financial, and technological impact of the roadmap. The way forward requires a clear signal for the industry not only until 2035, but beyond, so corporate players can take full advantage of the opportunities available.

The policy devised must be clear and predictable if the private sector is expected to fulfil their role in driving the country’s sustainable development goals. Finally, as concluded by Noor Afifah, “We have to transition in our own way, the Malaysian way.”



*This article is quoted from Energy Watch e-bulletin. Log on to [www.energywatch.com.my/](http://www.energywatch.com.my/) to read more articles*

**ENSEARCH COVID-19  
PUBLIC AWARENES**

# Flu & COVID-19: #StopTheSpread



KEMENTERIAN PEMBANGUNAN WANITA,  
KELUARGA DAN MASYARAKAT



## Kebahagiaan rumah tangga dibina bersama

Bagaimana untuk elakkan pergaduhan suami isteri di rumah



Jika ada perkara (khususnya kata-kata/verbal) yang menyinggung perasaan, kira 1-20 sebelum memberi apa apa respon (dalam tempoh 20 saat, otak akan lebih rasional dan bertenang untuk bertindak)

**#WanitaCegahCOVID19**

<https://www.kpwkm.gov.my/>

f KPWKM

@KPWKM

KPWKM



# COVID - 19

## PENCEGAHAN BAGI PETUGAS KESIHATAN SEMASA WABAK COVID - 19



**Dapatkan maklumat berkenaan COVID-19 setiap hari**

**Amalkan kebersihan tangan dan diri**

**Amalkan jarak sosial apabila tidak merawat pesakit**

**Pakai alat pelindung seperti yang disarankan**

**Dapatkan penilaian kesihatan jika didapati tidak sihat atau mengesyaki terdedah kepada pesakit atau kontak pesakit COVID-19**

**Kekal sihat dengan bersenam, makan secara sihat dan tangani stres dengan bijak**

**Sebarang pertanyaan sila rujuk Pegawai Unit Kesihatan Pekerjaan dan Unit Kesihatan Awam**

Kementerian Kesihatan Malaysia



COVID-19 #KitaMestiMenang

**Terima Kasih Barisan Hadapan**  
**PENGORBANAN ANDA AMAT BERTHARGA**

*Putuskan Rantainya COVID-19*

**COVID-19 #KitaMestiMenang**      **PREVENT COVID-19: PRACTICE THE NEW NORM**

**Wash Hands Frequently**

**Physical Distancing**

**Use Mask**

AVOID 3C

**1 Crowded Places**

**2 Confined Spaces**

**3 Close Conversation**

BREAK THE COVID-19 CHAIN

Kementerian Kesihatan Malaysia  
BERSAMA SAMA BERHADAPAN WABAK COVID-19

# PAST EVENTS & ACTIVITIES

## Training on “Impact of Industrial Effluent Treatment on Surface Water in Malaysia” by Eng Mohamed Abdul Kaleem

ENSEARCH has successfully organized a training on “Impact of Industrial Effluent Treatment on Surface Water in Malaysia”. The three days training was held on 20th, 21st & 23rd October 2021 at Kelab Golf Negara Subang (KGNS). After a long period of online training, this is the first ever classroom training for ENSEARCH Members.

The training was delivered by Eng Mohamed Abdul Kaleem with a number of 30 participants. The training was granted 12 CPD hours from Department of Environment (DOE) and also HRD Corp claimable



*(On the left) The participants are busy with their task during workshop session. (On the right) Eng Mohamed Abdul Kaleem is presenting during the training at Kelab Golf Negara Subang (KGNS)*



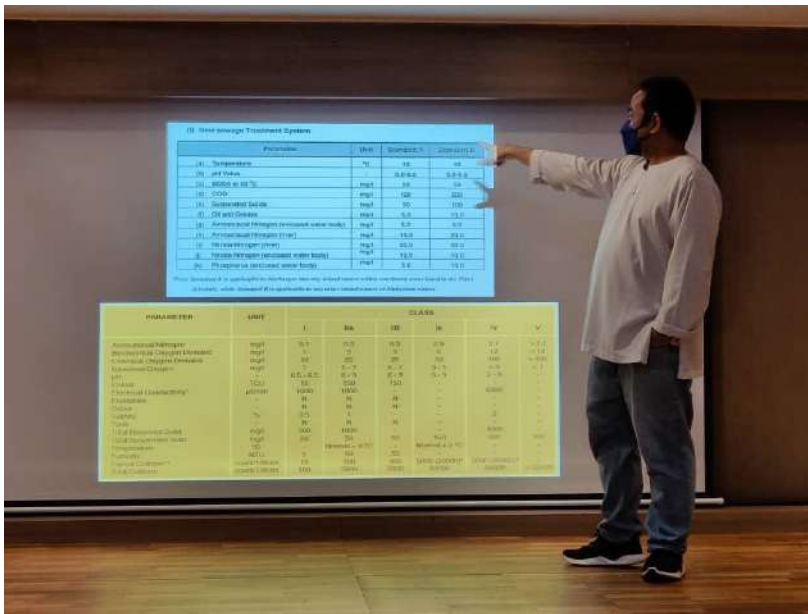
*Group photo with some of the participants. SOP and physical distancing are practiced throughout the training to lessen the risk of Covid–19.*

# PAST EVENTS & ACTIVITIES

ENSEARCH Collaboration with Jabatan Kesihatan Perak, Cawangan Kejuruteraan

## "Kursus Pemantauan Kualiti Air Berkesan"

by Ir Dr Zaki Zainudin



After a series of discussions, ENSEARCH through the Training & Education Committee, has successfully made a deal with Jabatan Kesihatan Perak, Cawangan Kejuruteraan. The collaboration is to provide a training to the technicians and engineers under Jabatan Kesihatan Perak.

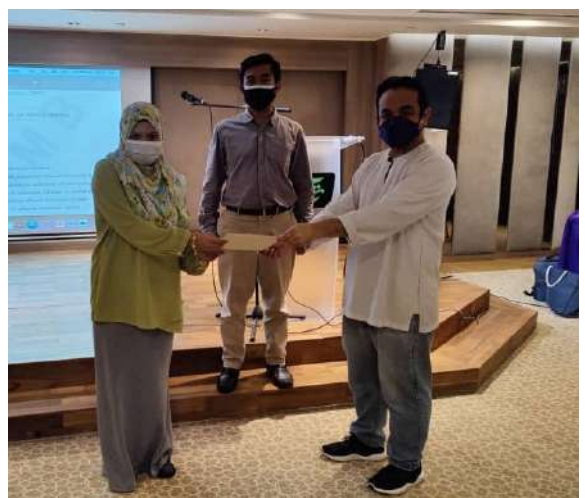
The training was held on 28th and 29th October 2021 at Bangunan Tabung Haji, Ipoh. Ir Dr Zaki Zainudin, Water Quality & Modelling Specialist, whom has been giving training at ENSEARCH for many years, was chosen to train the government servants from all over Perak State.

*Ir Dr Zaki Zainudin is explaining the 'Average Treatment System' during the course in Ipoh*

The course was specifically designed to combat river pollution in Perak recently. ENSEARCH received a very good feedback on the training course, and this would not become a success without Ir Dr Zaki Zainuddin's skills and deep experience in water quality and modeling.



*Group photo with the some of the participants and organizer at Bangunan Tabung Haji, Ipoh Perak. Covid-19 SOP was taken seriously to prevent any risk of infection during the training. Ir Dr Zaki Zainuddin is standing next to Mr Fakrusy Syakirin, the organizer whom representing Jabatan Kesihatan Negeri Perak, Cawangan Kejuruteraan.*



*Ir Dr Zaki Zainudin, receiving a Token of Appreciation from JKNP representative at Bangunan Tabung Haji, Ipoh, Perak.*

# PAST EVENTS & ACTIVITIES

## Training on "Environment Aspect and Significant Impact Assessment (EASI)" by Dr Subramaniam Karuppattan

Right after Eng Mohamed Abdul Kaleem's training, ENSEARCH has successfully organized one and only internal physical training in November 2021. The training was held on 21st & 22nd November 2021 at similar venue, Kelab Golf Negara Subang (KGNS). The training with the title of, "Environment Aspect and Impact Assessment (EASI)" was delivered by Dr Subramaniam Karuppattan. The training was also granted with 12 CPD hours from Department of Environment (DOE) and also HRD Corp claimable. The workshop sessions received a very good feedback from the participants. They allowed the participants to discuss and identify their level of knowledge on EASI.



*(On the left) The participants are discussing in groups during workshop session. (On the right) Dr Subramaniam Karuppattan with some of the participants on the last day of training.*



*Mr Yap Chin Hoi from MSK & Associates Sdn Bhd, one of the participants, is presenting his group's final findings during the workshop session.*

# TRAINING & ACTIVITIES CALENDAR FOR

## Q4 2021

### OCTOBER

1) 20<sup>th</sup> 21<sup>st</sup> & 22<sup>nd</sup> October 2021:

**Title: Impact of Industrial Effluent Treatment on Surface Water in Malaysia**

Speaker: Eng Mohamed Abdul Kaleem

Venue: Kelab Golf Negara Subang (KGNS)

2) 25<sup>th</sup> October 2021:

**Title: Fundamental of QRA and Its Application From EIA Perspective**

Speaker: Ts Adnan Yusop Ali

Venue: Kelab Golf Negara Subang (KGNS)

3) 26<sup>th</sup>, 27<sup>th</sup> & 28<sup>th</sup> October 2021:

**Title: Enhancing Schedule Waste Spill Response Management (ESWSRM)**

Speaker: Dr Subramaniam Karuppanan

Venue: Kelab Golf Negara Subang (KGNS)

### NOVEMBER

1) 22<sup>nd</sup> & 23<sup>rd</sup> November:

**Title: Environment Aspect & Impact Awareness (EASI)**

Speaker: Dr Subramaniam Karuppanan

Venue: Kelab Golf Negara Subang (KGNS)

### DECEMBER

1) 13<sup>th</sup> & 14<sup>th</sup> December 2021

**Title: Introduction to Sustainable Financing**

Speaker: Dr Hari Ramalu Ragavan Platform: Google Meets

2) 22<sup>nd</sup> & 23<sup>rd</sup> December 2021

**Title: Solid Waste Management and Impact Assessment**

Speaker: Prof Dr Mohd Razman Salim Platform: Google Meets

# 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

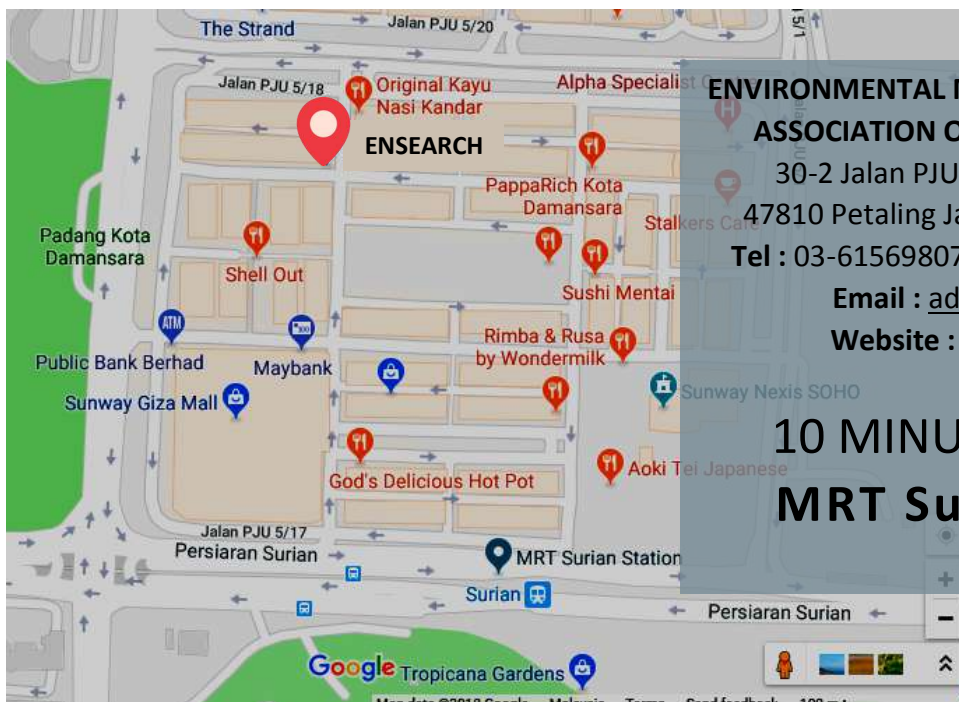
Prayer Room



**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 : 03-61569807 / 08 Fax : 03 - 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 03-61569807.

# ENSEARCH COUNCIL 2021-2022

<b>PRESIDENT</b>	: Encik Abdul Aziz Bin Long
<b>VICE PRESIDENT</b>	: Encik Tan Poh Aun
<b>VICE PRESIDENT</b>	: Dr Subramanian Karuppanan
<b>HON. SEC. GENERAL</b>	: Encik Zaipul Anwar Zainu
<b>HON. TREASURER</b>	: Encik Kelvin Diong Siong Loong

## COUNCIL MEMBERS

Datuk Ir Othman Bin Abdul Rahim  
 Encik Satwan Singh  
 Encik Mohamed Siraj Abdul Razack  
 Puan Badariah Awang Kechik  
 Dr Hari Ramalu Ragavan  
 Encik Peter Toh Zhao Sing  
 Cik Natasha Nordin Manan

## CO-OPTED MEMBERS

Encik Gobinathan Kumaran Nair (Immediate Past President)  
 Puan Ruhaidah Md Hassan (Indah Water Konsortium Sdn. Bhd. Rep)  
 Encik Ir Fazli Rahim (PETRONAS Rep)  
 Cik Ismawati Mohd Shah (Cenviro Sdn Bhd Rep)

# ENSEARCH SECRETARIAT



## EXECUTIVE SECRETARY & ACCOUNT :


Cik Vishal Singam


## PROJECTS OFFICER:


Encik Syamim Asri

## ENVIRONMENTAL MANAGEMENT & RESEARCH ASSOCIATION OF MALAYSIA (ENSEARCH)

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

 03-61569807  03-61569803

 [admin@ensearch.org](mailto:admin@ensearch.org)

 [www.ensearch.org](http://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.