

**KEMENTERIAN TENAGA, SAINS, TEKNOLOGI, ALAM SEKITAR DAN PERUBAHAN IKLIM**

| Bil | Berita                                                                                                                                                                                                                                                                                                                                                                                     | Media             | Capaian Berita Penuh                        |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|---------------------------------------------|
| 1.  | <p><a href="#"><u>Repent, oh ye killers of the Earth!</u></a></p> <p>Still, that's really the bare minimum. And in Malaysia, we are also starting with the bare minimum with plastic straws although the Ministry of Energy, Science, Technology, Environment and Climate Change has announced its Roadmap towards Zero Single-Use Plastics in three phases.</p>                           | The Star          | Klik pada tajuk berita dan rujuk lampiran 1 |
| 2.  | <p><a href="#"><u>Kajian EIA tidak dijalankan untuk projek jalan berkembar Bukit Kukus - Exco</u></a></p> <p>Kajian Penilaian Impak Alam Sekitar (EIA) tidak dijalankan untuk projek pembinaan jalan berkembar Bukit Kukus, Paya Terubong setelah mendapat pengecualian daripada Jabatan Alam Sekitar (JAS), persidangan Dewan Undangan Negeri (DUN) Pulau Pinang diberitahu hari ini.</p> | Astro Awani       | Klik pada tajuk berita                      |
| 3.  | <p><a href="#"><u>Projek lebuh raya berkembar Bukit Kukus tiada EIA</u></a></p> <p>Projek pembinaan Lebuh Raya Berkembar Bukit Kukus disahkan tidak dijalankan kajian Penilaian Kesan Alam Sekitar (EIA) selepas mendapat pengecualian daripada Jabatan Alam Sekitar (JAS) Pulau Pinang.</p>                                                                                               | Sinar Harian      | Klik pada tajuk berita                      |
| 4.  | <p><a href="#"><u>Defence, Enforcement and Security Industry Blueprint in the pipeline - Deputy Defence Minister</u></a></p> <p>"For example, the Energy, Science, Technology, Environment and Climate Change Ministry had expressed desire to increase the energy efficiency of the country.</p>                                                                                          | New Straits Times | Klik pada tajuk berita                      |
| 5.  | <p><a href="#"><u>Committee to submit report on Lynas' operations soon</u></a></p> <p>Committee chairman Prof Datuk Dr Mazlin Mokhtar said the six members would deliberate on statements and data collected and then</p>                                                                                                                                                                  | The Star          | Klik pada tajuk berita                      |

|     |                                                                                                                                                                                                                                                                                                                                              |                 |                        |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------------------------|
|     | make its recommendations to Energy, Science, Technology, Environment and Climate Change Minister Yeo Bee Yin by Nov 27.                                                                                                                                                                                                                      |                 |                        |
| 6.  | <p><b><u>Inisiatif pulihara alam sekitar</u></b></p> <p>Ketua Penolong Pengarah Jabatan Alam Sekitar, Mohd Fitri Mohd Mokhtar berkata, program berkenaan juga mengiktiraf kepada mereka yang memberi sumbangan dan jasa kepada pemeliharaan dan pemuliharaan alam sekitar.</p>                                                               | Sinar Harian    | Klik pada tajuk berita |
| 7.  | <p><b><u>Projek Bukit Kukus tiada EIA - Jagdeep</u></b></p> <p>Pengerusi Jawatankuasa Perumahan dan Kerajaan Tempatan, Perancangan Bandar serta Desa negeri, Jagdeep Singh Deo berkata, hal ini demikian kerana projek tersebut telah mendapat pengecualian daripada Jabatan Alam Sekitar (JAS).</p>                                         | Utusan Malaysia | Klik pada tajuk berita |
| 8.  | <p><b><u>MTDC: Use local technology, experts to springboard i4.0</u></b></p> <p>The Malaysian Technology Development Corporation (MTDC) has urged companies to utilise local technology and expertise in preparation for the challenges that come with the advent of Industry 4.0 (i4.0).</p>                                                | The Petri Dish  | Klik pada tajuk berita |
| 9.  | <p><b><u>Clearing indoor air with eco-friendly solutions</u></b></p> <p>Whenever we feel the first few beads of sweat trickling down our face, most of us will start switching on the air-conditioning.</p>                                                                                                                                  | The Star        | Rujuk lampiran 2       |
| 10. | <p><b><u>Special All Risk Solar PV Insurance</u></b></p> <p>Offered exclusively by Anora Agency, an agency partner of Allianz Malaysia, the Solar PV Insurance addresses issues such as the lack of support services, high-cost of maintenance and lack of compensation for damages faced by residential and commercial Solar PV owners.</p> | The Star        | Rujuk lampiran 3       |
| 11. | <p><b><u>Rally at Parliament to stop child marriage</u></b></p> <p>Over 80 demonstrators including women's rights activists and school students marched to</p>                                                                                                                                                                               | Malay Mail      | Rujuk lampiran 4       |

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|  | Parliament yesterday to present a signed petition to MPs, urging them to expedite the ban on child marriage in Malaysia. |  |  |
|--|--------------------------------------------------------------------------------------------------------------------------|--|--|

## TEMPATAN

| Bil | Berita                                                                                                                                                                                                                                                                                                                                                                         | Media             | Capaian Berita Penuh   |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------------------------|
| 12. | <a href="#">Science festival for younger generation</a><br>The rise of Artificial Intelligence, The Internet of Things, Nanotechnology and Biotechnology is part of changes and challenges happening in the world.                                                                                                                                                             | New Straits Times | Klik pada tajuk berita |
| 13. | <a href="#">Inisiatif kerajaan sokong IoT</a><br>“Menerusi usaha yang dilaksanakan kerajaan untuk melancarkan kesalinghubungan internet, ia akan menyokong pertumbuhan IoT, sekali gus membolehkan pemain industri mengaplikasikan Revolusi Perindustrian 4.0 (IR 4.0),” katanya ketika merasmikan Ekspo dan Persidangan Hypernet of Things 2018 (HOT 2018) di sini, hari ini. | Berita Harian     | Klik pada tajuk berita |
| 14. | <a href="#">Kepentingan pengguna jadi keutamaan SKMM</a><br>Menurutnya, peranan SKMM dalam sektor komunikasi dan multimedia negara semakin penting bagi mendepani Revolusi Perindustrian Keempat (Industri 4.0) yang berteraskan teknologi digital.                                                                                                                            | Sinar Harian      | Klik pada tajuk berita |
| 15. | <a href="#">Kaji guna teknologi rantaian blok dalam sektor awam</a><br>Manfaat penggunaan ‘blockchain technology’ atau teknologi rantaian blok dalam tadbir urus sektor awam perlu dikaji ke arah meningkatkan ketelusan, integriti dan akauntabiliti perkhidmatan.                                                                                                            | Berita Harian     | Klik pada tajuk berita |
| 16. | <a href="#">Ampang dilanda banjir kali kedua</a><br>Belum reda dengan keadaan banjir yang menimpa, kawasan sekitar Ampang dekat sini sekali lagi terpaksa menghadapi situasi sama                                                                                                                                                                                              | Utusan Malaysia   | Klik pada tajuk berita |

|     |                                                                                                                                                                                                                                                                                                                                 |               |                        |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------------|
|     | hari ini ekor hujan lebat kira-kira pukul 11.30 pagi tadi.                                                                                                                                                                                                                                                                      |               |                        |
| 17. | <p><a href="#"><u>44 mangsa banjir di Simpang Renggam dipindahkan</u></a></p> <p>Seramai 44 penduduk dari 10 keluarga dari Kampung Kolam Air, Simpang Renggam dekat sini terpaksa dipindahkan ke pusat pemindahan sementara berikutan kawasan terbabit mula dinaiki air akibat hujan lebat berterusan sejak petang semalam.</p> | Berita Harian | Klik pada tajuk berita |
| 18. | <p><a href="#"><u>'Sebulan tiga kali dah banjir'</u></a></p> <p>Seramai 44 mangsa banjir terdiri daripada 10 keluarga di Kampung Kolam Air, di sini, dipindahkan kali kedua ke Pusat Pemindahan Sementara (PPS) dalam tempoh sebulan selepas kediaman mereka dinaiki air, hari ini.</p>                                         | Sinar Harian  | Klik pada tajuk berita |
| 19. | <p><a href="#"><u>Pemaju punca banjir kilat perlu didenda lebih berat</u></a></p> <p>Kementerian Perumahan dan Kerajaan Tempatan mengkaji tindakan lebih berat terhadap pemaju-pemaju projek yang menjadi punca kejadian banjir kilat termasuk mengenakan jumlah denda dengan lebih tinggi.</p>                                 | Sinar Harian  | Klik pada tajuk berita |
| 20. | <p><a href="#"><u>28 mangsa banjir di Temerloh berada di pusat pemindahan</u></a></p> <p>Seramai 28 mangsa banjir di daerah ini dicatatkan sehingga awal pagi tadi.</p>                                                                                                                                                         | Sinar Harian  | Klik pada tajuk berita |
| 21. | <p><a href="#"><u>Banjir di Lipis pulih, mangsa dibenarkan pulang</u></a></p> <p>Pusat pemindahan banjir di balai raya Kampung Lalang, Kuala Lipis ditutup hari ini selepas semua 13 mangsa dibenarkan pulang tengahari tadi.</p>                                                                                               | Sinar Harian  | Klik pada tajuk berita |
| 22. | <p><a href="#"><u>Tambang BRT laluan Sunway diturunkan 20 peratus mulai 1 Dis</u></a></p> <p>"Namun, daripada penerangan yang diberikan oleh pihak Prasarana dan Rapid Bus, kadar tambang ini adalah berdasarkan kepada kos operasi mengendalikan perkhidmatan ini khususnya dalam pematuhan kepada elemen-</p>                 | Astro Awani   | Klik pada tajuk berita |

|     |                                                                                                                                                                                                                                                                                                                     |                   |                   |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------|
|     | elemen teknologi hijau dan setaraf dengan negara-negara maju," katanya.                                                                                                                                                                                                                                             |                   |                   |
| 23. | <b><u>UM milik Makmal Teknologi Blockchain</u></b><br>Universiti Malaya (UM) melancarkan secara rasmi Makmal Teknologi Blockchain UM yang merupakan makmal fizikal pertama seumpamanya di institusi pengajian tinggi di Malaysia.                                                                                   | Utusan Malaysia   | Rujuk lampiran 5  |
| 24. | <b><u>'No plastic bag' campaign begins in Batu Gajah</u></b><br>The Batu Gajah District Council kick-started its first-ever "No Non-Degradable Plastic Bag Day" initiative.                                                                                                                                         | The Star          | Rujuk lampiran 6  |
| 25. | <b><u>Pengurusan sisa perlu perhatian segera</u></b><br>Pengurusan sisa adalah mengenai kualiti kehidupan dan tentunya meliputi udara, air serta persekitaran yang bersih.                                                                                                                                          | Kosmo!            | Rujuk lampiran 7  |
| 26. | <b><u>'Power Players Feeling The Heat'</u></b><br>Global coal price is expected to remain high at above US\$100 (RM419) per tonne until end of the next year, said analysts.                                                                                                                                        | New Straits Times | Rujuk lampiran 8  |
| 27. | <b><u>Kerah tenaga bina Rumah Mizan di Dubai</u></b><br>Demi mengharumkan nama negara dalam Pertandingan <i>Solar Decathlon Middle East</i> (SDME) 2018, sekumpulan 35 siswa Universiti Sains Islam Malaysia (USIM) berkorban masa dan tenaga demi menyiapkan Rumah Solar <i>Mizan Home</i> (Rumah Mizan) di Dubai. | Utusan Malaysia   | Rujuk lampiran 9  |
| 28. | <b><u>Revolusi Industri 4.0 gagal jika teknologi 'kaku'</u></b><br>Malaysia tidak dapat mencapai Revolusi Industri 4.0 sekiranya organisasi awam dan swasta masih tidak mengamalkan peningkatan asas teknologi, inovasi dan produktiviti.                                                                           | Berita Harian     | Rujuk lampiran 10 |
| 29. | <b><u>Ampang dilanda banjir kali kedua</u></b><br>Lebih 500 penduduk di kawasan Flat Mesra Ampang di Ampang Campuran, Kuala Lumpur terpaksa berdepan sekali lagi banjir kilat ekoran hujan lebat pada kira-kira pukul 11.30 pagi tadi.                                                                              | Utusan Malaysia   | Rujuk lampiran 11 |

## ANTARABANGSA

| Bil | Berita                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Media               | Capaian Berita Penuh   |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|------------------------|
| 30. | <p><a href="#"><u>10 Ways To Encourage Company Innovation In Your Employees</u></a></p> <p>Looking for a wave of fresh ideas? Not every innovation has to come from the top down. Your work family is probably brimming with potential and thoughtful new ways to work.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                        | Forbes              | Klik pada tajuk berita |
| 31. | <p><a href="#"><u>New laser tech has space exploration, oil exploitation applications</u></a></p> <p>China Aerospace Science and Industry Corporation has used the distributed acoustic sensor technology based on laser interference, the first of its kind in this country, to successfully detect the exploitation conditions of a 5,000-meter oil well in Shengli oil field, China's second largest oil field in East China's Shandong Province, Wu Xiaofeng, deputy director of the Fourth Institute of China Aerospace Science and Industry Corporation, said at the Third Optics Valley Aerospace Laser and Quantum Technology International Forum in Wuhan, Central China's Hubei Province on Tuesday.</p> | Global Times        | Klik pada tajuk berita |
| 32. | <p><a href="#"><u>STEM students develop National Society of Black Engineers chapter</u></a></p> <p>Science, technology, engineering and mathematics students of color who may have experienced the uncomfortable pressure of a classroom full of stares, like engineering student Mar'quis Bryant-Morgan, are taking action to integrate their community.</p>                                                                                                                                                                                                                                                                                                                                                      | The Daily Barometer | Klik pada tajuk berita |
| 33. | <p><a href="#"><u>California firefighters wary of winds</u></a></p> <p>Returning winds have Southern California firefighters wary as they struggle to contain a wildfire that has ravaged scenic canyons and celebrity enclaves.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | The Star            | Rujuk lampiran 12      |

LAMPIRAN 1  
THE STAR (VIEWS): MUKA SURAT 15  
TARIKH: 14 NOVEMBER 2018 (RABU)



**So aunty, so what?** June H.L. Wong  
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# Repent, oh ye killers of the Earth!

It's up to us to significantly reduce the use of 'murderous' single-use plastics.

WE are the murderers, my friend. Without firing a shot or wielding a blade, we have killed innocent creatures simply by being lazy and addicted to convenience.

Our weapons? The plastic bags we store under the kitchen sink and in cupboards in our homes and offices.

And we have hundreds if not thousands of them. Already many, many millions of these bags, as well as other plastic items, have escaped our clutches and made their way into landfills and waterways that disgorge them into the oceans.

In this way, plastics have ruined the soil, making it impossible to grow crops in many parts of the world, and have smothered the seas, killing birds and marine life that mistake them for food.

Plastic pollution is a topic I have dwelt on before because I am thoroughly alarmed and frightened by it. Scientists and environmentalists have been shouting about it for years but something finally happened this year.

"Single-use" is Collins Dictionary's 2018 Word of the Year because of the "stunning rise in public concern over the environmental impact of throwaway plastics over the last 12 months".

So now those weapons of mass destruction have become international public enemy #1 as more and more nations have been galvanised to ban single-use plastics.

#BeatPlasticPollution became the theme for this year's World

Environment Day hosted by India, whose government announced it would eliminate all single-use plastics in the country by 2022.

In doing so, India joined countries like Bangladesh, Rwanda, Taiwan, France, Costa Rica and Morocco. The EU also backed the banning of certain single-use plastics like straws, cutlery, cotton buds and balloon sticks on Oct 31.

Governments are moving against single-use plastic use because it makes up half of the world's terrible plastic waste.

Our own government came up with its own pledge in September to fully ban single-use plastics by 2030.

For starters, it will become a requirement in the food outlet business licence beginning next year not to provide plastic straws. Full enforcement of the ban, however, will only take place from Jan 1, 2020.

That means businesses and consumers have a year to wean ourselves off plastic straws. Can we do it? We better, if we want to save ourselves and the planet from death by plastic.

It may seem like we have lived with plastics forever, but, according to UN Environment, plastic bags were a rare novelty in 1970s. Polyethylene, the most commonly used plastic derived from petroleum, was accidentally created in 1933 in England.

In 1965, a Swedish company patented the one-piece polyethylene shopping bag. But it was only in

1980s – after American chemists working for Mobil created the plastic shopping bag with handles and a rack system for supermarkets to dispense them with – that the plastic bag took over the world.

That means it has taken humankind just 40-odd years to mass-litter Earth so badly that even salt harvested from the sea is contaminated by microplastics!

Ever since I became conscious of the plastic pollution, I have tried to do my part. I have carried my own foldable shopping bag for the last 15 years, keep containers in the boot for takeaways and I sort out my household waste as best as I can.

Still, that's really the bare minimum. And in Malaysia, we are also starting with the bare minimum with plastic straws although the Ministry of Energy, Science, Technology, Environment and Climate Change has announced its Roadmap towards Zero Single-Use Plastics in three phases.

Understandably, there is much groundwork that needs to be done first, like drafting a legal framework; setting up a secretariat; drawing up a communication, education and public awareness campaign; and revising Sirim's standards for compostable plastics.

The government also needs time to come up with its circular economy roadmap (CER) for plastics, including bottles, that will be implemented in phase two.

A CER is a concrete programme

of action that covers the whole cycle from production, consumption to waste management, with the aim of creating "a system that allows for the long life, optimal reuse, refurbishment, remanufacturing and recycling of products and materials".

Japan, despite being the land of over-packaging, is a leader in this and I hope our government will learn from its experience.

After all, the people there separate their waste into 45 categories and they plan to produce the gold, silver, and bronze medals for the Olympic and Paralympic Games 2020 from recycled metals extracted from discarded mobile phones and appliances donated by the public. How amazing is that?

So, well and good the world is taking on single-use plastics like thin plastic bags and straws but I wish we would move faster on the use of plastic water bottles as well.

Consider this: One million plastic bottles are bought globally every minute. Most end up in landfills, lakes, oceans and beaches as only a very small percentage gets recycled.

If the government can make no straw use as a condition for licences, it can add no bottled water too. Better still, it can immediately tax plastic water bottles. Treat this product like cigarettes to discourage its use.

We can bring water from home in reusable containers and emulate the Koreans, whose restaurants

always provide free water in glass containers drunk from metal cups. If airports can provide drinking fountains, then so can shopping malls and other public places like museums and parks.

Companies can also stop giving bottled water at events and functions. Offices can set up more water dispensers and serve water in jugs at their meetings and seminars.

We need to be a little more inconvenienced to rein in our plastic dependence. If you want to start weaning yourself off plastics, check out [plasticfreejuly.org](http://plasticfreejuly.org) to learn about the "Choose to Refuse" Challenge, which is to go single-use plastic free for a month (or less). It started in 2011 in Western Australia and has since spread to millions of participants in 170 countries.

We can also take heart that others have done it, like the people of the English town of Modbury, who discarded the plastic shopping bag a decade ago and the entire nation of Rwanda that made it illegal to import, produce, use or sell plastic bags since 2006. It is now the cleanest country in Africa.

Can we do it? Seriously, do we have a choice?

**Much as Aunty feels guilty about using killer plastic, she's glad she didn't live in the era when people used leaves, horns and bull's scrotums to keep and carry things! Feedback to [aunty@thestar.com.my](mailto:aunty@thestar.com.my)**

## LAMPIRAN 2

### THE STAR (BUSINESS): MUKA SURAT 14

### TARIKH: 14 NOVEMBER 2018 (RABU)



To participate visit [soba.com.my](http://soba.com.my)  
or call: 03-7967 1388  
Ext: 1432 / 1857

The Star Outstanding Business Awards



# Clearing indoor air with eco-friendly solutions

Biotech company at the forefront of green technology that uses enzyme-based products to replace chemical ones

WHENEVER we feel the first few beads of sweat trickling down our face, most of us will start switching on the air-conditioners, or even look for places with air-conditioning.

There is this invigorating, feel-good sensation the moment the cool air hits our skin.

As long as the systems are well-maintained, checked and cleaned on a regular basis, the air-conditioners are able to work and perform efficiently.

However, it is said that most of the cleaning products used in the air-conditioning servicing industry are harsh chemicals that are either acidic or alkalised.

Over time, these cleaners and solvents become detrimental to the equipment, causing problems to the efficiency of the system as well as human health.

"Universally, acid (pH 2 to 4) and alkaline (pH 11 to 13) chemicals are used to clean the heating, ventilation and air-conditioning (HVAC).

"But they are destructive and can cause asset damage to the air-conditioning systems including the coils by causing metal loss.

"This will cause the system to be less efficient, forcing it to work harder, which will incur higher energy bills and frequent breakdowns that will lead to expensive replacement parts.

"Acid and alkaline chemicals carry with them an inherent danger to humans, along with equipment failure and damage.

"However, most people are not aware of this," said Airestec Innovations Sdn Bhd managing director William Rodney Yeo.

These are reasons that led Yeo to step forward and fight a tireless battle in advocating the use of environmentally-friendly products instead.

He first founded Airestec in 1990 in Australia, producing enzyme-based products to cater to waste-water treatment and odour control.

Airestec Sdn Bhd was then formed in 2002 in Malaysia when Yeo and his team realised that there was a need for enzyme-based products to clean air-conditioning systems here.

The aim was to provide decontamination and treatment services for HVAC and refrigeration to residential areas and commercial buildings.

This is to prevent asset damage and proliferation of bacteria, fungal and mould in this tropical weather, as well as improve people's quality of life in the long run.

Nine years later, Airestec Innovations Sdn Bhd was established, a life sciences company for the purpose of research, development, manufacturing and commercialising multi-enzyme products for various applications.

It focuses primarily on food grade, non-genetically modified organism (GMO) multi-enzyme ingredients, as it continues to provide environmental-friendly solutions to protect not only human health but also assets and the environment.

The company also received the BioNexus status by the Malaysian Biotechnology Development Corporation Sdn Bhd - a special status awarded to qualified international and Malaysian biotechnology companies.

Recipients get fiscal incentives, grants and other lists of privileges to assist them as they undertake value-added biotechnology and life science activities.

#### A new era of cleaning product

With a wealth of experience and knowledge accumulated over the past three decades, Airestec has introduced several products for different purposes including



Yeo (third from left, holding trophy) celebrating with his team after winning the Star Outstanding Business Awards 2017 Gold Award in the Best Innovation category. — Photos: ONG SOON HIN/The Star and courtesy of Airestec



The team in Airestec is committed and dedicated to researching, developing, manufacturing and commercialising multi-enzyme products to provide environmental-friendly solutions that aim to protect not only human health but also assets and the environment.

floor, facade, cooling tower and radiator cleaning.

One of it is the Bioactive Micro-Organism Enzymatic Coil Decontamination Cleaner (BMED) that could just be the answer to the threat acid- and alkaline-based cleaning products pose.

It is pH 7 neutral, which Yeo pointed out will not destroy the components in the air-conditioning system as compared to the chemicals.

"Since about 80% of the components are aluminium, the acid and alkaline chemicals will actually oxidise or corrode the equipment because of the chemical reaction.

"BMED, on the other hand, is made of a spectrum of proprietary food-grade enzymes, making it non-corrosive and non-destructive to coils, components, rubber, plastics and paints.

"Our product will help to protect and prolong the equipment lifespan, while also improve energy efficiency as well as save energy cost," Yeo stressed, adding that BMED is non-GMO and halal-certified by Jakim.

At the same time, BMED consists of plant-based ingredients that are said to disintegrate the biofilms in the air-conditioner without causing any damage.

Air-conditioning coils are where

microorganisms - primarily bacteria, fungal and mould, accumulate, grow and eventually form biofilms, otherwise known as "jelly".

Biofilm not only acts as a home but also a food source as well as a protection to these microbes against the chemicals used to destroy them.

It is also due to the humidity levels in Malaysia that are conducive for fungal and bacteria to grow, and the frequent use of air-conditioning.

Yeo explained that the primary source of indoor air contamination is the bacterial, fungal and mould colonisation of air filters, cooling coils, and ductworks within the HVAC systems.

"Most people know that outdoor air quality can damage their health but do not know that indoor air quality is two to five times more devastating and slowly leads to health deterioration.

"Inhalation of contaminated air can have a range of detrimental effects such as respiratory complaints, lung infections, dry throat and fatigue.

"Companies will feel the pinch when they record high medical fees, absenteeism, and food contamination.

"This is where BMED comes in by penetrating, breaking down and releasing biofilm bonds so they are easily flushed out without removing the aluminium substrates," he added.

Yeo advised that one just needs to mix 20ml of concentrated liquid with 20 parts of water for one horsepower unit; a bottle of BMED can clean up to 50 units.

To date, about 12 hospitals nationwide are using BMED to clean their air-conditioning systems, on top of office buildings, residences and hotels.

"BMED is suitable for every industry, such as healthcare, hospitality, commercial, industrial, airports, universities, shopping centres and trains. So long as they have air-conditioning," he quipped.

**LAMPIRAN 3**  
**THE STAR (EVENTS): MUKA SURAT 12**  
**TARIKH: 14 NOVEMBER 2018 (RABU)**



**4 NEW INSURANCE PRODUCT**

(From left) Malaysian Photovoltaic Industry Association (MPIA) president Chin Soo Mau, Energy, Science, Technology, Environment and Climate Change Minister Yeo Bee Yin, Anora Agency Sdn Bhd chief executive officer Samuel Soon and Allianz General Insurance Company (M) Bhd commercial business head John Yep at the launch of the Solar PV Insurance product during the International Greentech and Eco Products Exhibition and Conference Malaysia 2018 at Kuala Lumpur Convention Centre. Offered exclusively by Anora Agency, an agency partner of Allianz Malaysia, the Solar PV Insurance addresses issues such as the lack of support services, high-cost of maintenance and lack of compensation for damages faced by residential and commercial Solar PV owners. Development of the product was a result of a tripartite collaboration between Anora Agency, MPIA and Sustainable Energy Development Authority.

LAMPIRAN 4  
MALAY MAIL: MUKA SURAT 5  
TARIKH: 14 NOVEMBER 2018 (RABU)



(From third left) Yeoh, Deputy Education Minister Teo Nie Ching, Hanipa, Fuziah, Energy, Technology, Science, Climate Change and Environment Minister Yeo Bee Yin and Petaling Jaya MP Maria Chin with the demonstrators yesterday. — Picture by Hari Anggara

## Rally at Parliament to stop child marriage

By Jerry Choong  
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KUALA LUMPUR — Over 80 demonstrators including women's rights activists and school students marched to Parliament yesterday to present a signed petition to MPs, urging them to expedite the ban on child marriage in Malaysia.

By 8.30am the group had gathered before the front gate, with many holding placards and signs and chanting slogans. Among the participants were primary and secondary school students, some dressed in Girl Guides uniforms.

"Hey! Hey! Ho! Ho! Child marriage has got to go!" was among the chants heard.

Shortly before 9am, a delegation of parliamentarians, including Segambut MP Hannah Yeoh, Sepang MP Mohamed Hanipa Maidin, Batu Kawan MP Kasthuri Patto, and Kuantan MP Fuziah Salleh

came out to meet the group.

Several activists took turns to address the crowd, including anti-child sexual abuse NGO Monsters Among Us member Firzana Redzuan, 22.

"We want to be heard as youths and children. The current practice is that there are too many exceptions to the rule, and weak guidelines followed by the Shariah and civil courts.

"This leads to unsuitable child marriages. We need guidance from our elders who should not push for marriage thinking it will solve things, and by banning child marriage it is an incentive for youths and children to see the importance of education in this day and age," she said.

The petition, which accumulated 159,700 signatures of support, was handed to Yeoh, who is also the Deputy Women, Family and Community Development Minister. She expressed her appreciation of the public support

to push for an end to child marriage.

"The government listens, and we do what is in the best (interest) of the child. As it stands, we are making efforts to amend the Law Reform (Marriage and Divorce) Act 1976 for non-Muslims, and consulting the Malay Rulers and state governments on child marriage among Muslims.

"We have also gone to Sarawak to speak to the state government on the practice of customary marriages. More importantly we are also speaking to the National Registry Department on solving the issue of children born to unwed teenaged mothers," she said to loud applause.

Fuziah also addressed the crowd, stating the National Fatwa Council had in 2014 issued a ruling stating that child marriages does more harm than good.

"This is what the council has decided upon, and I will work to ensure this is realised," she said.

**LAMPIRAN 5**  
**UTUSAN MALAYSIA (BISNES): MUKA SURAT 46**  
**TARIKH: 14 NOVEMBER 2018 (RABU)**

# UM miliki Makmal Teknologi Blockchain

Oleh **NABILA YASMIN RAZIB**  
ekonomi@utusan.com.my

**KUALA LUMPUR 13 Nov.** - Universiti Malaya (UM) melancarkan secara rasmi Makmal Teknologi Blockchain UM yang merupakan makmal fizikal pertama seumpamanya di institusi pengajian tinggi di Malaysia.

Naib Canselor UM, Datuk Ir. Dr. Abdul Rahim Hashim berkata, makmal yang dibangunkan di bawah Fakulti Sains Komputer dan Teknologi Maklumat (FSKTM) itu diwujudkan bagi para penyelidik dalam bidang blockchain terutama UM untuk mengaplikasikan penyelidikan mereka selain daripada menambah baik penggunaan teknologi tersebut.

Beliau berkata, makmal tersebut turut membolehkan para penyelidik mengukuhkan kajian mereka dan berpotensi menghasilkan produk-produk inovasi yang mempunyai nilai komersial.

"Diharapkan dengan adanya Makmal Teknologi Blockchain ini, ia dapat membantu FSKTM dan



**KHALID ABD. SAMAD (tengah)** mendengar penerangan daripada Nik Izwan (kiri) dan Abdul Rahim ketika melawat sekitar Makmal Teknologi Blockchain UM di Kuala Lumpur, semalam.

UM menghasilkan penerbitan berimpak tinggi hasil kerjasama penyelidikan daripada pelbagai bidang.

"Kerjasama ini amat diperlukan supaya universiti dapat meningkatkan keupayaan sumber manusia dan menggunakan kepakaran daripada pihak-pihak luar yang relevan untuk pembangu-

nan industri," katanya pada majlis perasmian Makmal Teknologi Blockchain UM di sini hari ini.

Yang turut hadir, Menteri Wilayah Persekutuan Khalid Abd. Samad; Pensyarah Kanan Jabatan Sistem dan Teknologi Komputer FSKTM, Dr. Saaidal Razalli Azzuhri; Pengarah Urusan Ifcon

Technology Sdn. Bhd., Nik Izwan Nik Kamil dan Pengarah Komersial Ifcon Technology Sdn. Bhd., Ahmad Aliff Ahmad Shariffudin.

Sementara itu, Ahmad Aliff berkata, selain daripada penubuhan makmal, Seminar Blockchain Kebangsaan yang diadakan serentak dengan perasmian makmal tersebut dengan kerjasama Ifcon Technology juga bertujuan membetulkan segala tanggapan salah mengenai blockchain.

Ujarnya, ramai beranggapan blockchain mampu menjerumuskan seseorang individu dalam jenayah penipuan terutama melibatkan kewangan dan persepsi ini harus dibetulkan sekiranya negara mahu melahirkan lebih ramai pakar dalam bidang berkenaan.

"Sebenarnya blockchain adalah satu sistem yang lebih selamat dan ia tidak boleh digodam. Potensi kerjaya dalam bidang ini juga amat luas dan oleh sebab itu kami bekerjasama dengan UM untuk menjalankan penyelidikan berkenaan dengan teknologi ini," katanya.

LAMPIRAN 6  
THE STAR (NEWS): MUKA SURAT 4  
TARIKH: 14 NOVEMBER 2018 (RABU)

## 'No plastic bag' campaign begins in Batu Gajah

PERAK

By IVAN LOH

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THE Batu Gajah District Council kick-started its first-ever "No Non-Degradable Plastic Bag Day" initiative.

Council president Mohamad Razif Ramli said the initiative was their first step towards making the district sustainable and to be more responsible towards the environment.

There are 24 zones in Batu Gajah and Zone 3, which encompassed about 20 areas, was the first selected for the initiative.

Among the areas in Zone 3 included Kampung Ara Payung, Kampung Muhibbah, Kampung Seri Jaya, RPT Seri Rahmat, Taman Pinji Perdana, Taman Desa Pelancongan, Taman Yoke Kwan, Kampung Serani, RPT Batu 1 Jalan Gopeng, Changkat Larang Industrial Area and Bandar Tasik Idaman.

"The respective district councillor will distribute flyers on the programme to the people."

"We hope to make it a habit for the people to bring their own degradable or recycleable bags



Batu Gajah District Council staff distributing free recycleable bags to the public to educate the public to stop using non-biodegradable plastic bags.

daily and not just on Saturdays," he told reporters after the launch at the Batu Gajah market on Monday.

"We also hope supermarkets and hypermarkets will stop asking customers if they needed plastic bags," he added.

Mohamad Razif said the initiative was run as part of the Local Agenda

21 action plan with the involvement of the community.

"All local councils are encouraged to do so by the Housing and Local Government Ministry," he said.

The LA21 is a global action plan created during the Earth Summit Declaration in Rio de Janeiro,

Brazil, in 1992 to move towards sustainable development.

He said the initiative would focus more on education and creating awareness to market-goers and shoppers at hypermarkets.

"And during this process, we will also collect as much information from the ground to improve on this programme," he said.

Mohamad Razif hoped the programme would get a positive feedback from the public.

"It is my hope that we all do our part to recycle and use less plastic bags."

"Traders could use paper bags to pack their vegetables or meat instead of plastic bags," he said.

Batu Gajah Night Market Association chairman Kamal Razali said the No Plastic Day concept was still new among the traders.

"Most of the traders are used to using plastic bags."

"Asking them to switch or to urge their customers to use recycling bags will be something that will need time to adapt," he said.

"This is something that the association will need to discuss further," he added.

Kamal said there was no doubt

that the programme was good for the environment and would try to make it a habit among traders and customers.

RPT Pusing Zone B chairman Chew Hon Yen said the move was good for the people and the environment.

"With lesser plastic bags, there will also be lesser illegal dumpsites, which is a prevalent problem in my area," he said, expecting resistance from the villagers.

"Many will ask how they will carry their goods from the market if they don't use plastic bags."

"But the society itself is changing and they will accept it slowly," he said, adding that there were about 700 households in his area.

"In Penang, the No Plastic Day initiative is well received and I really hope it will catch on here," he added.

During the launch, those present were also taught how to do composting while a booth to disseminate information on recycling was also available.

The council distributed about 1,000 recycleable bags to representatives of participating communities from Zone 3.

LAMPIRAN 7  
KOSMO! (NEGARA): MUKA SURAT 11  
TARIKH: 14 NOVEMBER 2018 (RABU)

## Pengurusan sisa perlu perhatian segera

**P**ENGURUSAN sisa adalah mengenai kualiti kehidupan dan tentunya meliputi udara, air serta persekitaran yang bersih.

"Meksipun anda tak nampak apa yang anda buang, percayalah suatu hari nanti, kalau pun bukan anda yang akan mendapat kesannya, mungkin anak-anak anda," demikian ungkapan Antonis Mavropoulos, Presiden Persatuan Sisa Pepejal Antarabangsa (ISWA).

Malaysia menjadi tuan rumah kepada persidangan ISWA yang berlangsung dari 22 hingga 25 Oktober lalu di Pusat Konvensyen Kuala Lumpur.

Persidangan itu dianjurkan Kementerian Kesejahteraan Bandar, Perumahan dan Kerajaan Tempatan bersama Persatuan Pengurusan Sisa Malaysia (ISWA).

Lebih 60 negara mengambil bahagian dan ia dirasmikan oleh Timbalan Menteri Perumahan dan Kerajaan Tempatan, Datuk Raja Kamarul Bahrin Shah Raja Ahmad. Pelbagai topik dibincang termasuk mengenai pengurusan mapan sisa pepejal, kesihatan manusia serta isu perubahan iklim sepanjang persidangan empat hari yang dihadiri sekitar 1,600 peserta.

Pengurusan sisa di Asia dijangka menjadi lebih mencabar dengan pertumbuhan dua kali ganda penduduknya. Di India sahaja, menjelang 2035 akan terdapat 68 bandar metropolitan, 58 daerah bandar, 115 daerah separuh bandar, 96 daerah kampung dengan jumlah penduduk menyumbang kepada 25 peratus keseluruhan penduduk dunia.

Landskap pengurusan sisa pastinya akan menghadapi perubahan besar dengan pertumbuhan besar sisa. Pembuangan sisa yang dijangka meningkat tiga kali ganda pastinya menambah beban penggunaan sumber asli.

Dengan pembangunan yang pesat, kualiti kehidupan turut meningkat. Lebih banyak barang dihasilkan termasuk plastik, lebih banyak juga penggunaan dan pembungkusan.

Asia mesti belajar daripada kesilapan dunia Barat dan tidak mengulanginya.

Negara Asia juga perlu akur dengan isu yang mereka perlu tangani iaitu penggunaan, paras pendapatan, urbanisasi, migrasi ke bandar, pengeluaran karbon monoksida, industrialisasi, migrasi daripada

Malaysia perlu meningkatkan lagi usaha untuk melaksanakan Pendidikan Alam Sekitar dalam kurikulum persekolahan

**Menjengah Minda**  
Bersama RAVINDRAN RAMAN KUTTY (BERNAMA)

pertanian kepada sektor perkhidmatan, tahap pendidikan dan kemiskinan.

Kesemuanya itu adalah antara isu kritikal perlu dipandang serius oleh setiap negara di Asia.

Bandar yang dibina di sekeliling kawasan berair lebih mudah terancam akibat pembuangan sampah.

Kebanyakan bandar di Asia dibina berhampir punca air. Oleh yang demikian, langkah perlu diambil untuk memasukkan program pencemaran marin dengan pengurusan sisa bandar bagi menangani isu pencemaran alam sekitar. Pencemaran laut sudah sampai ke tahap kritikal sehinggalah setiap lautan tercemar akibat gaya hidup kita, penguatkuasaan atau kawalan yang lemah serta tabiat membuang sampah yang teruk.

Beberapa kertas kerja dibentangkan oleh wakil dari pelbagai negara. Namun, ada satu kajian kes yang mendapat perhatian ramai iaitu 'Hasiru Dara' yang bermaksud 'Suara Pemungut Sisa'.

Ini adalah pertubuhan impak sosial yang sejak 2011 memberi fokus kepada usaha mendapatkan keadilan sosial untuk pemungut sisa menerusi pendidikan, penjagaan kesihatan, perumahan, pencen, pembangunan kemahiran dan akses penggajian.

Terdapat lebih daripada 8,000 orang pemungut sisa yang mendapat manfaat daripada program ini. Terbukti program ini

membantu meningkatkan kehidupan serta maruah pemungut sisa di Bangalore. Penulis turut berkesempatan bertemu dengan Malini Shekar, yang memulakan inisiatif program yang turut memenangi anugerah. Memang senang bercakap dan idea juga banyak. Cuma tindakannya kurang.

Pada pandangan penulis, Malaysia perlu meningkatkan lagi usaha untuk melaksanakan Pendidikan Alam Sekitar dalam kurikulum persekolahan. Bagi saya kerajaan belum bersungguh-sungguh melakukannya. Kita kini berdepan dengan pelbagai isu alam sekitar dan puncanya ialah pengurusan sisa yang lemah dalam kalangan semua rakyat, pihak berkuasa tempatan, majlis perbandaran dan kerajaan sendiri.

Usaha ISWA seharusnya diteladani. Saya berharap setiap pekerja mengendalikan sisa di dunia, terutamanya di Malaysia, pihak berkuasa tempatan dan pegawai daripada Kementerian berkenaan cuba membaca kertas kerja yang dibentangkan pada persidangan ini.

Sudah sampai masanya Pengurusan Sisa diberi perhatian serius. Malaysia perlu bertegas dengan Akta Pengurusan Sisa Pepejal (SWMA). Bukan semua negeri memindahkan kegiatan pengurusan sisa kepada kerajaan persekutuan seperti terkandung di bawah SWMA. Perak, Selangor, Pulau Pinang dan Terengganu masih belum melakukannya.

Program Sisa kepada Tenaga perlu dilaksanakan di Kuala Lumpur kerana ia sudah terlalu lama terbengkalai iaitu sejak 1996.

Apa sebabnya? Bagaimana kita hendak menyelamatkan Kuala Lumpur daripada menjadi satu lagi tapak pelupusan sampah, jika kita tidak bertindak sekarang!



LAMPIRAN 8  
NEW STRAITS TIMES (BUSINESS): MUKA SURAT 26  
TARIKH: 14 NOVEMBER 2018 (RABU)

## ENERGY INDUSTRY

# 'POWER PLAYERS FEELING THE HEAT'

Coal prices above US\$100 likely to pressure electricity rates

## KUALA LUMPUR

**G**LOBAL coal price is expected to remain high at above US\$100 (RM419) per tonne until end of next year, said analysts.

This will continue to put pressure on Malaysia's power producers to generate and supply electricity to domestic (households) and non-domestic (industrial, commercial and others) customers at affordable rates.

Demand for coal remained high and was growing in some countries, but supply was struggling to keep up, they said.

Coal has always had two primary markets, material classified as coking, which finds its way into steel-making, and energy (or thermal) coal used to generate electricity.

The benchmark Australian thermal coal price now stands at about US\$108 per tonne. This means the price of top quality thermal coal exported from the Australian port of Newcastle has risen by more than 100 per cent

after reaching a 10 year-low in 2016 when it fell below US\$50 per tonne.

ABN Amro senior energy economist Hans van Cleef said coal demand in the next two years was expected to remain stable at around the current levels.

"Although headlines in the newspapers may suggest that coal demand will peak soon, demand will remain solid in the coming years," he reportedly said.

Analysts said if prices remained above US\$100 per tonne, consumers, especially the non-domestic users, may have to settle with higher tariffs.

Non-domestic customers are now imposed with a surcharge of 1.35 sen per kilowatt hour from July until December this year under the imbalance cost pass-through (ICPT) mechanism. The surcharge was set based on coal price at US\$75 per tonne.

A local research firm said a steady coal price above US\$100 per tonne would most likely see a change in the surcharge for the

next six months as rebates provided by the government were unsustainable when coal and gas prices continued to escalate.

On the power producers side, Tenaga Nasional Bhd in particular will be grappling with higher operating costs.

The country's power producers' total generation and fuel costs rose by eight per cent to RM6.63 billion in the second quarter ended June 30 this year.

This raised TNB's overall operating expenditure by nine per cent higher to RM10.68 billion during the period.

TNB noted at an analysts briefing on its second quarter results that it had paid an average of US\$91.1 per tonne of coal during the period.

Last year, it paid an average US\$72.7 per tonne and US\$55.7 per tonne in 2016.

Kenanga Research said TNB's total fuel costs were expected to remain high until at least end of next year as it would be required to use more less cost-effective non-coal fuels.



A Tenaga Nasional Manjung 5 plant. The national utility sources its coal overseas with over 60 per cent purchased from Indonesia.

The group's non-fuel costs rose 12 per cent to RM4.06 billion in the second quarter.

TNB's coal needs are sourced overseas. Over 60 per cent is purchased from Indonesia, about 25 per cent from Australia and the

rest from South Africa and Russia.

Overall, 53 per cent of Malaysia's electricity comes from coal, 42 per cent from natural gas and the remainder from hydro and renewable energy.

**LAMPIRAN 9**  
**UTUSAN MALAYSIA (MALAYSIA KITA): MUKA SURAT 35**  
**TARIKH: 14 NOVEMBER 2018 (RABU)**

**D**EMI mengharumkan nama negara dalam Pertandingan Solar Decathlon Middle East (SDME) 2018, sekumpulan 35 siswa Universiti Sains Islam Malaysia (USIM) berkorban masa dan tenaga demi menyiapkan Rumah Solar Mizan Home (Rumah Mizan) di Dubai.

Selaku wakil tunggal Malaysia ke SDME 2018, kumpulan pelajar ini bersama lima pensyarah berkampung di Tapak Solar Syekh Mohammed bin Rashid Al Maktoum, Dubai, Emiriah Arab Bersatu (UAE) bermula 2 November lalu bagi memulakan pembinaan Rumah Mizan itu.

Kumpulan pertama berada di Dubai sejak 26 Oktober lalu diikuti kumpulan kedua yang tiba pada 3 November. Cabaran awal pembinaan rumah solar ini sudah dirasakan apabila tidak dapat dimulakan mengikut perancangan awal pada 29 Oktober berpunca daripada proses dokumentasi dan kerosakan pada barangan dalam kontena yang dibawa.

Menurut ketua pembinaan, **Muhammad Ariff Hanafi**, beliau bersama rakan-rakannya memulakan pembinaan di tapak projek bermula dari jam 9 pagi hingga 11 malam setiap hari. Mereka juga perlu menempuh satu jam perjalanan dari penginapan untuk sampai ke tapak projek.

"Rasa penat, letih dan tekanan itu memang dirasakan semua dengan ditambah cabaran suhu panas pada siang dan sejuk apabila malam di Dubai.

"Tetapi itu semua kami abaikan kerana fokus utama dan motivasi tinggi untuk memastikan Rumah Mizan ini

# Kerah tenaga bina Rumah Mizan di Dubai

“

Kami telah bekerja lebih dari 180 jam untuk menyiapkan rumah ini dengan semangat yang berkobar-kobar agar rumah solar Rumah Mizan dapat melakar sejarah gemilang di Dubai untuk universiti dan negara.”

siap sepenuhnya menjelang 13 November seperti yang ditetapkan oleh penganjur. Tidak terlintas untuk berputus asa kerana kami telah membuat persiapan selama dua tahun untuk pertandingan ini”

“Kami telah bekerja lebih dari 180 jam untuk menyiapkan rumah ini dengan semangat yang berkobar-kobar agar rumah solar Rumah Mizan dapat melakar sejarah gemilang di Dubai untuk universiti dan negara,” katanya, yang juga

pelajar tahun akhir Fakulti Kejuruteraan dan Alam Bina USIM.

Menurutnya, “SDME beri pengalaman dan pendedahan yang amat bernilai kerana kami bukan sahaja melakar model rumah ini tetapi membinanya sendiri satu persatu.

“Menjelang hari-hari terakhir, sekumpulan pelajar berada 24 jam di tapak projek untuk bekerja mengikut shift dan tugas yang diberikan. Selain cabaran suhu, angin kuat

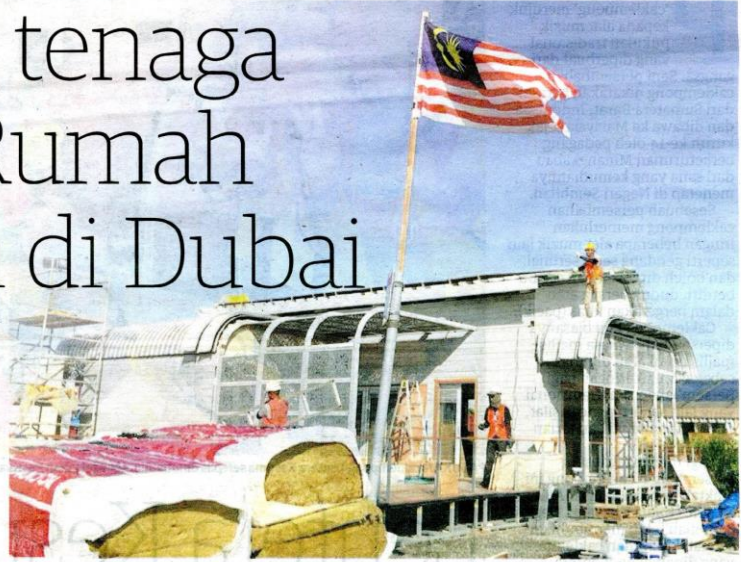
dan ribut pasir juga memberi kesulitan kepada kerja-kerja pembinaan dan kesihatan para peserta,” ujarnya.

Rumah Mizan adalah kolaborasi USIM bersama Universiti Teknologi Malaysia (UTM) merupakan wakil tunggal negara dan Asia Tenggara ke pertandingan yang dianjurkan oleh Dubai Electricity and Water Authority (DEWA).

Sebanyak 15 buah rumah solar dari pelbagai universiti seluruh dunia terpilih

menyertai pertandingan berprestij ini. Para peserta perlu membina sebuah rumah pintar yang beroperasi sepenuhnya menggunakan tenaga solar selain perlu disesuaikan untuk menghadapi cabaran musim panas, habuk dan kelembapan yang tinggi di Dubai.

Majlis perasmian SDME 2018 akan diadakan pada 14 November ini oleh Pemerintah Dubai, Syekh Mohammed bin Rashid Al Maktoum. - **MOHD. ZAINI OTHMAN**



**KUMPULAN** pelajar USIM berusaha keras menyiapkan pemasangan Rumah Solar Mizan Home sempena Pertandingan Solar Decathlon Middle East (SDME) 2018 di Dubai, UAE baru-baru ini.

LAMPIRAN 10  
BERITA HARIAN (BISNES): MUKA SURAT 28  
TARIKH: 14 NOVEMBER 2018 (RABU)

## Revolusi Industri 4.0 gagal jika teknologi 'kaku'

**Malaysia** tidak dapat mencapai Revolusi Industri 4.0 sekiranya organisasi awam dan swasta masih tidak mengamalkan peningkatan asas teknologi, inovasi dan produktiviti.

Ketua Pengarah Perbadanan Produktiviti Malaysia (MPC), Datuk Mohd Razali Hussain, berkata pembabit organisasi perlu menyeluruh termasuk proses pencapaian kepimpinan bagi setiap peringkat.

Bagaimanapun, Mohd Razali berkata, ketika ini Malaysia mencatatkan pertumbuhan kadar produktiviti sebanyak 3.2 peratus dan berada pada landasan bagi mencapai sasaran pertumbuhan kepada 3.7 peratus akhir tahun ini, didorong oleh pelaksanaan pelbagai inisiatif dan dasar yang sedang dijalankan.

Beliau berkata, ketika ini juga,

projek inovasi dan peningkatan aktiviti organisasi awam dan swasta mencatatkan penjimatan sebanyak RM374 juta.

### Sasaran penjimatan RM515j

"Daripada angka itu MPC yakin sasaran kita bagi penjimatan hasil daripada peningkatan aktiviti sebanyak RM515 juta tahun ini mampu dicapai.

"Malah, MPC bersama pihak berkepentingan lain juga menaikkan sasaran kepada RM520 juta bagi 2019 dan angka berkenaan akan terus kita tingkatkan dari tahun ke tahun.

"Ini bagi memberi penanda aras kepada organisasi menjalankan sebanyak boleh projek inovasi dan kreatif seiring dengan matlamat menghadapi Industri 4.0," katanya selepas merasmikan Persidangan Produktiviti dan Inovasi (APIC)



Ketika ini Malaysia catat pertumbuhan kadar produktiviti sebanyak 3.2 peratus dan berada pada landasan bagi capai sasaran pertumbuhan kepada 3.7 peratus akhir tahun ini, didorong pelaksanaan pelbagai inisiatif dan dasar yang dijalankan"

**Mohd Razali Hussain,**  
Ketua Pengarah MPC

2018 di Kuala Lumpur, semalam.

Mohd Razali berkata, pembabit organisasi serta perusahaan kecil dan sederhana (PKS) juga menjadi semakin rancak menerusi program peningkatan produktiviti yang dijalankan.

Melalui pembabit terbahit katanya, pemilik perniagaan akan melihat perbandingan dari aspek tahap prestasi yang diperlukan dan kesungguhan serta komitmen mereka meningkatkan lagi prestasi sedia ada.

"Seperti APIC 2018, penganjuran kali ini juga menunjukkan peningkatan penyertaan dengan 305 kumpulan daripada 171 organisasi mengambil bahagian. 58 peratus adalah daripada sektor swasta dan 48 peratus daripada sektor awam.

"Aktiviti peningkatan produktiviti dan inovasi perlu diserapkan

dalam minda dan diimplimentasikan dalam budaya kerja sehari-harian.

### Penjimatan kos operasi

"Melalui aktiviti APIC 2018, banyak idea dapat direalisasikan yang membawa kepada penjimatan kos operasi serta meningkatkan produktiviti organisasi dan pekerja," katanya.

Mengulas lanjut, Mohd Razali berkata, MPC juga menyediakan sistem *Benchmarking Online Networking Database* (BOND) yang memberikan amalan terbaik dalam organisasi yang boleh dijadikan rujukan kepada semua pihak.

Beliau berkata, BOND mempunyai 271 kajian amalan produktiviti terbaik daripada organisasi yang melaksanakan program peningkatan produktiviti mereka.

LAMPIRAN 11  
UTUSAN MALAYSIA (UTUSAN KOTA): MUKA SURAT 57  
TARIKH: 14 NOVEMBER 2018 (RABU)



# Ampang dilanda banjir kali kedua

Oleh FARABI AL JABRI  
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■ KUALA LUMPUR 13 NOV.

**B**ELUM reda dengan keadaan banjir yang menimpa kawasan sekitar Ampang dekat sini, penduduk sekali lagi terpaksa menghadapi situasi sama hari ini ekoran hujan lebat kira-kira pukul 11.30 pagi tadi.

Berdasarkan rakaman video tular dalam media sosial mendapati, banjir yang turut disertai air lumpur ekoran beberapa kawasan sekitar sedang menjalankan beberapa projek infrastruktur.

Paling mengejutkan apabila lebih 500 penduduk di kawasan Flat Mesra Ampang di Ampang Campuran menerima musibah ekoran kediaman mereka ditenggelami air lebih satu meter.

Seorang penduduk yang hanya mahu dikenali sebagai

Ti berkata, ini merupakan kali kedua selepas kejadian pertama berlaku pada Ahad lalu.

“Pada kejadian Ahad lalu saya bersama rakan keluar untuk makan, namun sebaik sahaja pulang ke rumah kami mendapati paras air sudah mulai tinggi dan beberapa buah kenderaan dinaiki air.

“Bagaimanapun banjir kali ini tidaklah seteruk seperti Ahad lalu,” katanya kepada *Utusan Malaysia* di sini hari ini.

Sementara beberapa kawasan lain turut dilaporkan dinaiki air lumpur termasuk Tasik Tambahan dan Bandar Baru Ampang menuju ke Sekolah Menengah Kebangsaan Bandar Baru Ampang.

Kejadian berlaku beberapa jam selepas Menteri Perumahan dan Kerajaan Tempatan yang juga Ahli Parlimen Ampang, Zuraida Kamaruddin melakukan lawatan bagi meninjau kesan banjir di kawasan tersebut.



FLAT Mesra Ampang di Ampang Campuran, Ampang, Selangor antara lokasi yang dilanda banjir kilat, semalam. - GAMBAR MEDIA SOSIAL

LAMPIRAN 12  
THE STAR (WORLD): MUKA SURAT 19 & 20  
TARIKH: 14 NOVEMBER 2018 (RABU)

## California firefighters wary of winds

**MALIBU:** With Santa Ana winds returning and hundreds of homes in ashes, firefighters were struggling to corral a devastating Southern California wildfire that has ravaged scenic canyons and celebrity enclaves near the ocean.

Crews taking advantage of a weekend lull in the winds had the immense Woolsey blaze about 30% contained.

But at least 435 buildings had burned – most of them homes – and the hot embers smouldering there could become the sparks for more devastation, fire officials said.

The fire, stretching from north of Los Angeles to the Pacific Ocean, was only 30% contained, though significant progress from a few days earlier thanks to a weekend

lull in Santa Ana winds.

Fire crews had to stamp out two new blazes on Monday while still working to corral the hot western and eastern sides of the fire, which burned through drought-stricken canyons in and around Malibu, burning celebrity houses along with modest mobile homes.

The hot, dry gusty winds were expected to blow through today, although not quite as furiously as last week.

Winds, coupled with higher average annual temperatures, tinder-dry brush and a lack of rain in recent years, make the “perfect ingredients” for explosive fire growth around the state, said Chris Anthony, a division chief with the California Department of Forestry

and Fire Protection.

“I’ve been doing this job for 31 years and probably in the last five, maybe seven years, every year seems to get worse,” California Fire Chief Scott Jalbert said.

The fire has burned over 80% of National Parks Service land in the Santa Monica Mountains National Recreation Area, officials said.

Fire officials lifted some evacuation orders Monday in Los Angeles County while warning Southern California residents to remain vigilant as strong winds fanned new fires. While some returned home, others were told to leave.

The return to normal for some was juxtaposed with the arrival of chaos for others, illustrating how quickly conditions can turn. — AP



**Desolate landscape:** Malibu resident Paul Rasmussen shooting a video of the charred hillside and his burned 1968 Pontiac across his property. His home was saved by neighbours with hoses and buckets of water. — AP



## Relentless heat

Returning winds have Southern California firefighters wary as they struggle to contain a wildfire that has ravaged scenic canyons and celebrity enclaves. > 19