

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

Bil	Berita	Media	Capaian Berita Penuh
1.	<u>MGTC meterai MoU</u> Majlis berkenaan disaksikan Menteri Tenaga, Sains, Teknologi, Alam Sekitar dan Perubahan Iklim, Yeo Bee Yin, semasa Pameran dan Persidangan Produk Eko dan Teknologi Hijau Antarabangsa.	Sinar Harian	Rujuk lampiran 1
2.	<u>Peratusan sungai tercemar terus meningkat</u> Jumlah sungai tercemar di negara ini yang direkodkan oleh Jabatan Alam Sekitar (JAS) meningkat daripada sembilan peratus pada 2013 kepada 11 peratus pada tahun lalu.	Utusan Malaysia	Rujuk lampiran 2
3.	<u>No stranger to green efforts</u> The programme is developed by Energy, Green Technology and Water Ministry (KeTTHA) with the cooperation of Green Technology Corporation (Greentech), to assist local authorities, town planners and developers in their quest to create low carbon cities.	The Star	Rujuk lampiran 3
4.	<u>Pindaan 3 akta berkaitan alam sekitar mantapkan pengurusan, penguatkuasaan</u> Timbalan Menteri Air, Tanah dan Sumber Asli, Tengku Zulpuri Shah Raja Puji, berkata akta terbabit ialah Akta Perhutanan Negara 1984, Akta Pemuliharaan Hidupan Liar 2010 dan Akta Kualiti Alam Sekeliling 1974 yang dikuatkuasakan oleh Kementerian Tenaga, Sains, Teknologi, Alam Sekitar dan Perubahan Iklim.	Berita Harian	Klik pada tajuk berita
5.	<u>24 organisasi terima anugerah EMGS</u> Timbalan Menteri Tenaga, Sains, Teknologi, Alam Sekitar dan Perubahan Iklim, Isnaraissah Munirah Majlis merasmikan majlis anugerah itu yang turut dihadiri Ketua Pegawai Eksekutif Greentech Malaysia Dr. Mohd Azman Zainul Abidin.	Utusan Malaysia	Klik pada tajuk berita

6.	<u>Usaha MBSA jadikan Shah Alam bandar raya rendah karbon diiktiraf</u> Ketua Bahagian Korporat dan Komunikasi MBSA, Shahrin Ahmad berkata, anugerah tersebut dianjurkan oleh Kementerian Tenaga, Teknologi, Sains, Perubahan Iklim dan Alam Sekitar dengan kerjasama Malaysian Green Technology Corporation.	Utusan Malaysia	Klik pada tajuk berita
7.	<u>117 akta akan dimansuh, dipinda, diperkenalkan</u> Terdahulu, pada majlis berkenaan, Yayasan MyKasih; bekas Pengerusi BERSIH 2.0, Datuk Ambiga Sreenevasan dan Unit Ozon Kebangsaan, Jabatan Alam Sekitar dipilih menerima Anugerah PBB 2018 yang disampaikan oleh Vui Keong.	Berita Harian	Klik pada tajuk berita
8.	<u>Three environment-related laws to be amended</u> Deputy Water, Land and Natural Resources Minister Tengku Zulpuri Shah Raja Puji said the three Acts were the National Forestry Act 1984, Wildlife Conservation Act 2010 and Environmental Quality Act 1974 which is under the Energy, Science, Technology, Environment and Climate Change Ministry.	The Edge Market	Klik pada tajuk berita
9.	<u>1H19 tariff review likely a litmus test for pass-through mechanism for TNB</u> Mestecc minister was quoted in a press conference that while tariffs are dependent on fossil fuel prices, she is not in favour of specifically raising tariff for the green agenda due to the difficulties caused to the poor. She also disclosed that carbon tax is not in her ministry's pipeline.	The Edge Market	Klik pada tajuk berita
10.	<u>Sunway University Launches Master in Sustainable Development Management Programme</u> The launch of the Master in Sustainable Development Management programme was officiated by Yeo Bee Yin, Minister of Energy, Science, Technology, Environment and Climate Change, Malaysia, Tan Sri Dr Cheah and Professor Sachs.	QSWOW News	Klik pada tajuk berita

11.	<u>Cradle Fund still in the dark over new direction</u> He said Cradle Fund has also been engaging much with the Ministry of Energy, Science, Technology, Environment and Climate Change (MESTECC) lately.	The Malaysian Reserve	Klik pada tajuk berita
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TEMPATAN

Bil	Berita	Media	Capaian Berita Penuh
12.	<u>Alarming crack appears in orang asli village</u> Kampung Pawong in the Pos Slim Orang Asli settlement in Simpang Pulai south of here has been declared unsafe for occupation after a huge crack appeared in the ground.	The Sun	Rujuk lampiran 4
13.	<u>Pico Hydro jana tenaga elektrik</u> Cetusan idea menghasilkan produk inovasi Pico Hydro adalah atas rasa prihatin bagi memudahkan golongan memerlukan, seperti pengembara atau penduduk pedalaman memperoleh tenaga elektrik dengan mudah serta murah.	Berita Harian	Rujuk lampiran 5
14.	<u>Kuasai bidang STEM, tingkat daya saing</u> “Bidang STEM penting dikuasai kerana mampu meningkatkan daya saing dalam aspek pembangunan teknologi, menawarkan peluang pekerjaan meluas dan memastikan mahasiswa memiliki kemahiran tinggi.	Berita Harian	Rujuk lampiran 6
15.	<u>Better strategy for third car</u> I have read predictions by car experts that the future for the automotive industry would not be just in selling cars but selling services as well. It would be more about dabbling in technologies related to artificial intelligence (AI) and big data analytics.	The Star	Rujuk lampiran 7
16.	<u>KL rendah karbon 2030</u> Dewan Bandaraya Kuala Lumpur (DBKL) kini dalam usaha menjadikan ibu negara rendah karbon dengan mewujudkan lebih banyak kawasan hijau.	Sinar Harian	Rujuk lampiran 8

17.	Managing a mounting plastic problem It's also high time to rejuvenate the 3R practices – “Reduce, Reuse and Recycle”. I would add one more “R” to this, which is “Rethink”. Now that we are facing a critical issue, we should rethink our legislations, investments and technology.	The Star	Rujuk lampiran 9 atau klik pada tajuk berita
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ANTARABANGSA

Bil	Berita	Media	Capaian Berita Penuh
18.	Hurricane Willa lashes Pacific coast, weakens to storm Hurricane Willa crashed ashore in western Mexico, lashing the Pacific coast with powerful winds and heavy rain before weakening to a tropical storm as it moved inland.	New Straits Times	Rujuk lampiran 10
19.	Walmart strikes renewable energy deal with SunPower Grocery giant Walmart has entered into an agreement with SunPower that will see the renewable energy firm install solar power at two distribution centers and 19 stores in Illinois.	CNBC	Klik pada tajuk berita
20.	Artificial Intelligence Faces Age-Old IT Challenge: Data Standardization Artificial intelligence, among its many roles in the enterprise, has the potential to wholly transform a large company's information technology infrastructure -- from automating mundane and repetitive IT tasks to predicting capacity and outages to identifying security threats.	Wall Street Journal	Klik pada tajuk berita
21.	Climate change swelling Central American migration to US: Experts Deepening climate change will swell Central American migration to the United States, the region's environment ministers and experts warned on Tuesday (Oct 23) as a caravan of mostly Honduran migrants trekked towards the	The Straits Times	Klik pada tajuk berita

	US border in defiance of President Donald Trump.		
22.	<u>Some of the countries leading on climate change might surprise you</u> Countries that may not be thought of as climate leaders are emerging at the front-lines on responding to climate change.	The Guardian	Klik pada tajuk berita

LAMPIRAN 1
SINAR HARIAN (BISNES): MUKA SURAT 42
TARIKH: 25 OKTOBER 2018 (KHAMIS)

MGTC meterai MoU

PERBADANAN Teknologi Hijau Malaysia (MGTC) menandatangani Memorandum Persefahaman (MoU) dengan Iskandar Halal Park dan perjanjian kerjasama dengan Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ).

Majlis berkenaan disaksikan Menteri Tenaga, Sains, Teknologi, Alam Sekitar dan Perubahan Iklim, Yeo Bee Yin, semasa Pameran dan Persidangan Produk Eko dan Teknologi Hijau Antarabangsa.

Dalam kenyataannya, MGTC berkata, kerjasama dengan GIZ, agensi pembangunan Jerman, adalah bagi urus latihan di Malaysia, manakala perjanjian dengan Iskandar Halal Park bagi sediakan sokongan teknikal dalam melaksanakan inisiatif hijau dalam pembangunan keseluruhan projek.

LAMPIRAN 2

UTUSAN MALAYSIA (UTUSAN KOTA): MUKA SURAT 56

TARIKH: 25 OKTOBER 2018 (KHAMIS)

Peratusan sungai tercemar terus meningkat

KUALA LUMPUR

24 Okt. - Jumlah sungai tercemar di negara ini yang direkodkan oleh Jabatan Alam Sekitar (JAS) meningkat daripada sembilan peratus pada 2013 kepada 11 peratus pada tahun lalu.

Menteri Air, Tanah dan Sumber Asli, Dr A. Xavier Jayakumar berkata, peningkatan itu disebabkan oleh faktor pembangunan semakin pesat selain kesedaran masyarakat yang masih rendah dalam memelihara alam sekitar.

"Kadar pencemaran sungai paling tinggi direkodkan di Kelantan, Pahang dan juga sedikit di Kedah kerana ada

**MAKLUM
BALAS**

kaitan dengan pengurangan hutan dengan pembukaan kawasan baharu untuk tujuan pembalakan di negeri berkenaan.

"Selain itu, sikap masyarakat yang masih menganggap sungai sebagai tempat pembuangan sampah turut menjadi punca pencemaran dan kerosakan sungai," katanya dalam sidang akhbar selepas merasmikan Hari Sungai Sedunia peringkat Kebangsaan 2018, di sini baru-baru ini.

Yang hadir sama ialah Menteri Wilayah, Khalid Abdul Samad.

Justeru kata beliau, untuk memastikan sungai diurus dengan baik dan terpelihara,



KHALID ABDUL SAMAD



A. XAVIER JAYAKUMAR

Jabatan Pengairan dan Saliran (JPS) akan melaksanakan pendekatan Pengurusan Lembaga Sungai Bersepadu untuk memastikan air mencukupi, bersih, mengurangkan risiko banjir dan meningkatkan pemuliharaan alam sekitar.

"Di bawah pendekatan ini,

kesedaran awam merupakan salah satu pelan tindakan yang melibatkan masyarakat secara langsung dalam memberi impak jangka panjang kepada pemuliharaan dan pengindahan sungai.

"Bagaimana-pun semua langkah rawatan dan pencegahan diambil tidak akan beri kesan jika masyarakat tidak mahu ambil peduli," katanya.

Pada majlis itu, Xavier Jayakumar dan Khalid turut melancarkan aplikasi *RoL Citizen's Eye* bagi memudahkan orang ramai

melaporkan sebarang aktiviti pencemaran sungai.

Menurut Khalid, matlamat utama aplikasi itu adalah untuk memberi kuasa kepada rakyat supaya menjadi mata dan telinga kerajaan dengan melaporkan sebarang aktiviti pencemaran selain menghebahkan program berkaitan projek RoL.

"Melalui aplikasi itu orang ramai boleh membuat laporan mengenai kualiti air, pembuangan sisa pepejal, pencemaran sungai dan sumber pencemaran kepada pihak berkuasa seperti Jabatan Pengairan dan Saliran, Jabatan Alam Sekitar, pihak berkuasa tempatan, Pejabat Tanah dan Galian Selangor serta Lembaga Urus Air Selangor," katanya.

LAMPIRAN 3
THE STAR (NEWS): MUKA SURAT 1
TARIKH: 25 OKTOBER 2018 (KHAMIS)



No stranger to green efforts

The environmentally-aware people of Bandar Baru Bangi are prepared to give full support to the Low Carbon City Framework programme to help local authorities meet their objectives of reducing carbon emission. >2

LAMPIRAN 3 (SAMBUNGAN) THE STAR (NEWS): MUKA SURAT 2 TARIKH: 25 OKTOBER 2018 (KHAMIS)



A simple machine helps grind garden waste that has been mixed with food waste. (Inset) Natural enzymes help with fermentation in food waste which forms part of the composting process.

Townsfolk ready to go green

By GRACE CHEN
gracechen@thestar.com.my

BANDAR Baru Bangi, a township in Hulu Langat has been picked by Kajang Municipal Council (MPKJ) as a pilot study site for its Low Carbon City Framework (LCCF) programme.

The programme is developed by Energy, Green Technology and Water Ministry (KETTHA) with the cooperation of Green Technology Corporation (Greentech), to assist local authorities, town planners and developers in their quest to create low carbon cities.

Bandar Baru Bangi Residents Association president Hamdi Haron said the township was ready to aid the council to meet its objectives to reduce carbon emission.

"The residents knew what recycling was as early as 10 years ago. Our association distributed flyers door to door to raise awareness on this," said Hamdi.

An owner of a restaurant himself, Hamdi said he was ready to embark on a personal campaign to convince 60 restaurant owners, on top of the 60 selected by MPKJ, to be part of its efforts to buy back used oil and collect food waste, both seen by the local council as crucial components to the LCCF programme.

MPKJ Solid Waste and Public Cleansing Management Department environmental unit head Muhammad Nazir Awang said the council took upon itself to collect food waste from these premises to be turned into compost.

The process takes place at a back lot behind the council's plant nursery in Section 13.

"We started experimenting with composting methods as early as 2015. Our source were from 10 shops in Kajang and Section 1," said Muhammad Nazir, an environmental health diploma holder from UiTM.

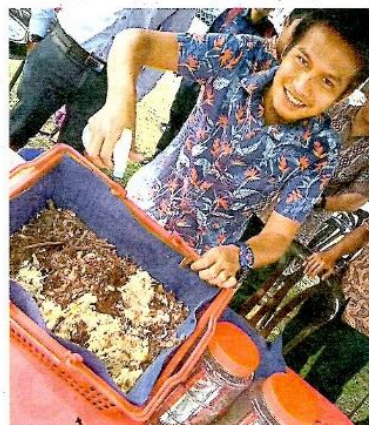
The composting process is run manually using bio enzymes made from natural ingredients such as brown sugar, yoghurt and tempeh sprayed onto ground garden waste to interact with the collected food waste.

The process is the Takakura method that uses materials to be sourced from home.

A small garden patch of mint leaves, corn, ladies' fingers and kangkung bears testament to the compost's efficacy.

The same 60 shops are also selling their used cooking oil at

Bandar Baru Bangi residents are used to recycling and willing to participate in pilot project, says RA



Nazir says MPKJ employs the Takakura method for food composting, using materials sourced from home.



Uni10 Energy operations supervisor Yahirwan Yahya shows the difference between biodiesel made from recycled cooking oil (left) and fossil diesel (right) in a burning demo. The fossil diesel gives off more black smoke.

Amount collected from March 15 to Aug 16 (in tonnes)



Source: MPKJ

©The Star Graphics

between RM1 and RM1.50 to Uni10 Energy, a local company appointed by the council to collect waste oil in the area.

Its operations manager Shahrul Azwa Idrif said the waste oil would be converted to biodiesel via the transesterification process.

The end product is sent to power generators in rural schools where the company is running studies on solar hybrid systems.

When the company's contract with the schools expires at the end

of the month, it will export the collected waste oil to biodiesel producing companies in Singapore and countries in Europe.

The waste oil recycling effort is seen as an important effort by the council as it wants to raise awareness on the health dangers or consuming recycled cooking oil.

"Recycled cooking oil contains the cancer-causing teroxide. Cooking oil which has been reused contains up to 10 times the safety level allowed," said Shahrul.

At the official launch of the programme at Laman Bangiku in Section 9, Bandar Baru Bangi, MPKJ president Mohd Sayuthi Bakar said scheduled collection for recyclables, used cooking oil and food waste has been done since March 15 for Section 9.

The area, he said, had 1,118 shop units, two shopping complexes, commercial plots and a public park.

"The result of these collections will depend on the cooperation of businesses here if we are to achieve our target of reducing carbon emissions by 2% by next year," he said.

He added that the council would plant 290 trees in the area within two years with 130 to be planted this year.

This programme will cost MPKJ RM278,300.

Sungai Ramal assemblyman Mazwan Johar, who was present at the launch, said demographic studies done on his constituency showed that the concerned residents were well educated and exposed.

"As such, they should have no difficulties understanding the importance of the LCC programme," said Mazwan.

LAMPIRAN 4
THE SUN (NEWS WITHOUT BORDERS): MUKA SURAT 5
TARIKH: 25 OKTOBER 2018 (KHAMIS)



Local authority officials and residents inspecting the affected area in Kampung Pawong yesterday.

Alarming crack appears in orang asli village

IPON: Kampung Pawong in the Pos Slim Orang Asli settlement in Simpang Pulai south of here has been declared unsafe for occupation after a huge crack appeared in the ground.

The 50m-long, 1.2m-wide and 1.5m-deep crack, that appeared at about 3pm on Tuesday, has affected three houses, said Perak Minerals and Geoscience Department director Datuk Ahmad Zukni Ahmad Khalil.

"Right now, the area is unsafe. Heavy rain and its proximity to the river banks are the primary factors," he said.

A row of six houses built in 2008 at the settlement had to be evacuated yesterday following the appearance of the crack.

Ahmad Zukni said the crack was just 10m from the river and at a height of 60m, and there is a possibility of erosion taking place due to heavy rain.

"This causes cracks along the alignment of the river," he said, adding the crack appeared on reclaimed land.

Kampung Pawong, located 14km from Simpang Pulai, has 15 houses and a surau.

Meanwhile, three flood evacuation centres were opened yesterday, one each in Kampar, Hilir Perak and Larut Matang, due to rising water levels at the main rivers in the district following continuous rain since Tuesday.

A statement issued by the state Disaster Management Secretariat stated that as of

noon, 165 people have been evacuated to the three relief centres.

In Larut Matang Selama, 64 people from three villages - Kampung Temerlok, Kampung Tengah and Kampung Tebok - were evacuated to the relief centre at SK Temerlok, Trong.

In Kampar, the centre is at Kampung Tebing Tinggi, where 41 people from Kampung Tebing Tinggi and Kampung Pulau Pisang were being provided temporary shelter.

In Hilir Perak, the evacuees, comprising 57 from Kampung Batu 9, were moved to SK Changkat Jong, which was opened at 10am yesterday after the water in Sungai Bidor overflowed its banks. - Bernama

LAMPIRAN 5 BERITA HARIAN (INOVASI): MUKA SURAT V60 TARIKH: 25 OKTOBER 2018 (KHAMIS)

Pico Hydro jana tenaga elektrik

➔ Mampu
hasilkan
tenaga pada
sumber air
berkelajuan
rendah

Oleh Faizatul Farhana
Farush Khan
ffarhana@bh.com.my

► Kuala Lumpur

Cetusan idea menghasi-
sikan produk inovasi
Pico Hydro adalah atas
rasa prihatin bagi memu-
dahkan golongan memer-
lukan, seperti pengembara
atau penduduk pedalaman
memperoleh tenaga elek-
trik dengan mudah serta
murah.

Seorang daripada pencip-
ta produk itu, Muhamad
Redzuan Saharani, berkata
inovasi dibangunkan lebih
tiga bulan itu berkemampu-
an menjana tenaga elektrik
menggunakan sumber air
berkelajuan rendah, sekali
gus boleh dicas melalui
sungai kecil atau parit.

Beliau berkata, kelebihan
yang ada bagi reka cipta itu
memudahkan pengemba-
ra dan penduduk pedala-
man tanpa perlu berjafan
jauh atau mencari sumber
air deras untuk menjana

elektrik dan mengecas pro-
duk terbahit.

“Dibandingkan dengan
teknologi hidro lain di pasa-
ran yang memerlukan kuan-
titi air sangat banyak dan
deras bagi menghasilkan
tenaga elektrik, Pico Hydro
mudah dibawa, malah boleh
menjana elektrik daripada
kawasan tadahan, kuantiti
serta pergerakan air lebih
kecil,” katanya kepada BH
Varsiti, di sini, baru-baru ini.

Beliau ialah seorang dari-
pada tiga mahasiswa Fakulti
Teknologi Kejuruteraan Elek-
trik dan Elektronik (FTKEE)
Universiti Teknikal Malaysia
Melaka (UTeM) yang meng-
hasilkan inovasi terbahit
secara berkumpulan.

Produk inovasi Pico Hydro
itu memenangi pingat emas
pada The 5th International
Inventors Awards Bali, Indo-
nesia (IYIA 2018), baru-baru
ini.

Mampu bersaing

Dua rakan kumpulannya
ialah mahasiswa tahun dua,
Ijazah Sarjana Muda Tek-
nologi Kejuruteraan Elektro-
nik (Telekomunikasi), Siti
Nur Baijan Yaakop dan
Naziah Ismail.

Muhamad Redzuan yang
juga mahasiswa tahun akhir
Ijazah Sarjana Muda Tekno-
logi Kejuruteraan Elektrik
(Kuasa Industri) berkata,
keistimewaan inovasi mere-
ka bukan sahaja tidak me-
merlukan kos pembinaan
empangan dan sungai yang
berarus deras, tetapi memili-

info



Produk Pico Hydro

➔ Memenangi pingat emas
pada IYIA 2018, di Bali
➔ Johan WYIA 2018
di KLCC pada Mei 2018

ki reka bentuk geometri me-
narik, mesra pengguna dan
dilengkapkan dengan bahan
kitar semula, seperti motor
terpakai daripada mesin
basuh.

Penyelia Projek Inovasi Pico
Hydro dan Timbalan Dekan
FTKEE, Ir Dr Mohd Farriz
Basar, berkata kejayaan itu
cukup membanggakan me-
reka dan universiti kerana
mampu bersaing dengan



Ahli kumpulan, Muhamad Redzuan Saharani (tengah), Siti Nur Baijan (kiri) dan Naziah
menunjukkan pingat emas dan sijil kemenangan diterima.

lebih 300 produk inovasi
dikedahkannya peserta dari
pelbagai negara, antaranya
Indonesia, Thailand, Filipina,
Vietnam, Rusia, Jordan, Iran,
Taiwan, China dan India.

“Inovasi mereka ini dipi-
lih untuk mewakili negara
ke IYIA 2018 selepas menjadi
johan pada Pertandingan Pa-
meran Pencipta Muda Dunia
2018 (WYIA 2018) di Pusat
Konvensyen Kuala Lumpur

(KLCC), Mei lalu.

“Dengan teknologi tena-
ga boleh diperbaharui, ke-
aslian, kreatif dan idea me-
narik dimiliki membo-
lehkan produk kami me-
mikatkan perhatian juri di per-
tandingan peringkat antara-
bangsa,” katanya.

Sementara itu, Dekan
FTKEE, Prof Madya Mohd
Rahimi Yusoff, berkata pe-
nyertaan kumpulan terba-

bit dalam pertandingan ino-
vasi bertaraf global adalah
usaha fakulti bagi menge-
tengahkan keupayaan ma-
hasiswa untuk bersaing dan
menghasilkan produk ber-
impak tinggi.

“Penyertaan ini memberi
pendedahan sangat berha-
rga kepada mahasiswa, selain
mampu meningkatkan ke-
yakinan dan potensi mere-
ka,” katanya.

LAMPIRAN 6 (SAMBUNGAN)
BERITA HARIAN (INOVASI): MUKA SURAT V60
TARIKH: 25 OKTOBER 2018 (KHAMIS)

Kuasai bidang STEM, tingkat daya saing

Kuala Lumpur: Syarahan Perdana Sains, Teknologi, Kejuruteraan dan Matematik (STEM) yang dianjurkan di Dewan Resital, Universiti Malaysia Sabah (UMS), baru-baru ini menjadi platform terbaik bagi memupuk minat generasi muda terhadap empat bidang itu.

Program anjuran Pusat Persediaan Sains dan Teknologi (PPST) UMS itu, menampilkan dua pakar sebagai penceramah jemputan, iaitu Pengerusi Gerakan STEM Kebangsaan, Prof Datuk Dr Noraini Idris dan Pengarah Pusat Asasi STEM, Universiti Malaysia Terengganu (UMT), Dr Laili Che Rose.

Naib Canselor UMS, Prof Datuk Dr D Kamarudin D Mudin, berkata program julung kali diadakan itu

adalah sebagai inisiatif universiti bagi menyokong perkembangan sains dan teknologi di negara ini, khususnya di Sabah.

"Bidang STEM penting dikuasai kerana mampu meningkatkan daya saing dalam aspek pembangunan teknologi, menawarkan peluang pekerjaan meluas dan memastikan mahasiswa memiliki kemahiran tinggi.

Berpotensi besar

"Kedua-dua penceramah jemputan ini turut berkongsi kepentingan STEM pada masa kini yang mampu menyediakan laluan paling efektif dalam usaha melahirkan graduan sejajar Revolusi Perindustrian 4.0," katanya.



Mahasiswa, penceramah dan pengurusan UMS

bergambar pada program Syarahan Perdana STEM.

Yang turut hadir, Dekan Fakulti Kemanusiaan, Seni dan Warisan UMS, Prof Dr Ismail Ibrahim.

Prof D Kamarudin berkata, ilmu dan perkongsian diperolehi melalui syarahan itu mampu menonjolkan kehebatan sains dan keperluan bidang terbabit dalam

kehidupan seharian.

Katanya, pendedahan dan pengetahuan diperolehi melalui program itu diharapkan mampu melahirkan kumpulan mahasiswa yang berpotensi besar dalam bidang berkenaan.

Sementara itu, Prof Noraini berkata, penganjuran sya-

rahan itu memberi peluang kepada peserta membuat keputusan terbaik berdasarkan perbincangan akademik diikuti.

Keputusan itu, katanya, seperti berkaitan isu perkembangan sains terhadap kelestarian alam dan kaedah penambahbaikan

boleh dilaksanakan.

"Melalui program ini, saya percaya peserta mempunyai kemampuan menjadi individu mahir hasil daripada penguasaan mereka berhubung ilmu STEM, sekali gus menyumbang kepada kemajuan negeri dan negara pada masa depan," katanya.

LAMPIRAN 7
THE STAR (VIEWS): MUKA SURAT 37
TARIKH: 25 OKTOBER 2018 (KHAMIS)

Better strategy for third car

PRIME Minister Tun Dr Mahathir Mohamad's plan to venture into another national car project, the third one after Proton and Perodua, has certainly received a mixed reaction. Some have raised objections, citing the experience with Proton which they claim is a failure. Money could be better spent on projects which would benefit the society more, claimed the critics.

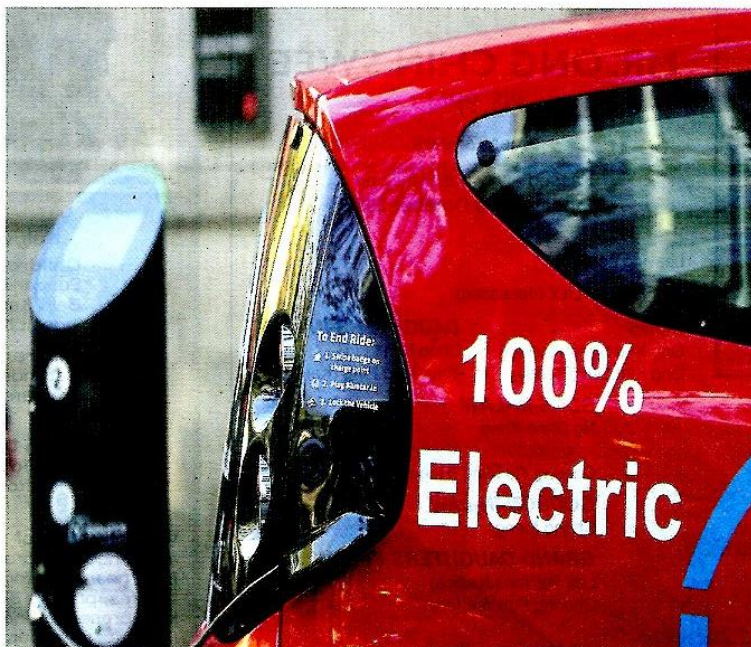
Those who were more sympathetic to the plan viewed Proton as not just a car business but a venture that has brought benefits to the nation as a whole, not only in creating jobs but also, and more importantly, spurring the population into a more sophisticated manufacturing business. Proton proved to be the right platform to nurture such talents.

I tend to agree with the view that Proton has brought benefits to the nation even though it was not a huge success as a car business. It could not sell as many cars as planned, which explains why its production capacity was under utilised.

One reason given for this lackluster performance was that Proton could not penetrate the export market. The blame for this was put on the quality of Proton cars, which was said to be inferior. But it's more than this. The world car market is a highly protective business, especially in the more developed countries.

People in most developing economies could not afford cars. Therefore, the recent tie-up with a car maker from China may be the best way out for Proton as a business.

I have read predictions by car experts that



the future for the automotive industry would not be just in selling cars but selling services as well. It would be more about dabbling in technologies related to artificial intelligence (AI) and big data analytics.

I am sure we all have heard about autonomous driverless cars that are powered by electricity.

It all boils down to what consumers really want. If future consumers do not want to own cars, then car makers will just have to redefine their business model. More and more consumers are opting for other means of mobility. With

the expected improvements in public transport, many view owning cars as wasteful if they are just parked in the garage most of the time.

Many studies have reported that the millennials are opting out of car ownership. If you visit countries like Germany and Japan, which have excellent public transport, car sales have dropped. This is why both countries have ventured outside to expand their sales.

Taking the cue from such trends, the third national car would have to focus on building technology leadership in the cars of the future. We need to embark on at least a 20-year programme to assume world leadership in electric autonomous cars, where the business is selling technologies instead of cars.

As a technology leader, we would also be sought after by other countries to help them manufacture such cars and the consequent parts and components.

We therefore need to produce a 20-year automotive technology master plan and bring the key stakeholders together. These include the business element, government and the technology talents.

The initial phase may involve partnering with world class car technology experts but the end game is to nurture our own local talents to take over. This way, we as a nation can emerge as a major player in the new global car business.

PROFESSOR DATUK DR AHMAD IBRAHIM
Fellow Academy of Sciences Malaysia
UCSI University

LAMPIRAN 8
SINAR HARIAN (SENTRAL): MUKA SURAT 19
TARIKH: 25 OKTOBER 2018 (KHAMIS)

KL rendah karbon 2030

DBKL usaha wujud lebih banyak kawasan hijau

HIDAYAH HAIROM

KUALA LUMPUR

Dewan Bandaraya KUALA Lumpur (DBKL) kini dalam usaha menjadikan ibu negara rendah karbon dengan mewujudkan lebih banyak kawasan hijau.

Datuk Bandar Kuala Lumpur, Datuk Nor Hisham Ahmad Dahlan, berkata, Kuala Lumpur Low Carbon Society Blueprint 2030 berperanan membantu Kuala Lumpur mencapai hasrat tersebut menerusi sasaran pengurangan pelepasan karbon sebanyak 50 peratus menjelang 2030.

"Kajian ini merangkumi projek Sungai Life, KL Heritage Track,



Nor Hisham (dua, kiri) menyerahkan cenderamata kepada Pengasas Syarikat Landprocess Thailand Kotchakorn Voraakhom (dua, kanan) semalam

Taman Tugu dan isu banjir.

"Masyarakat juga bertanggungjawab dalam usaha ini untuk menjadikan Kuala Lumpur sebagai bandar rendah karbon," katanya selepas merasmikan Dialog Antarabangsa Senibina Landskap 'Space and Spark' (Spark), semalam.

Dialog berkenaan dianjurkan

oleh Institut Landskap Arkitek Malaysia (Ilam) sempena Bulan Reka Bentuk Kuala Lumpur DBKL 2018.

Spark berfungsi sebagai platform perbincangan berkaitan cabaran yang dihadapi di bandar-bandar seterusnya memberi idea penyelesaian isu-isu berkaitan untuk

info

Sasar pengurangan karbon sebanyak 50 peratus

kehidupan masyarakat yang lebih baik.

Mengulas lanjut, Nor Hisham berkata DBKL terbuka untuk melaksanakan sebarang idea yang dikongsikan bergantung kepada kesesuaian setempat.

Ujarnya, menerusi platform berkenaan juga sebagai manfaat untuk Kuala Lumpur dalam meningkatkan serta memberi pembaharuan terhadap corak landskapnya.

"Saya berharap dialog ini akan menawarkan idea inovatif dalam merancang landskap Kuala Lumpur, terutamanya untuk penyelesaian softscape. Kami mahu menjadikan Kuala Lumpur sebuah bandar yang lebih berdaya maju, sama seperti sebuah bandar taman," katanya.

LAMPIRAN 9 THE STAR (VIEWS): MUKA SURAT 36 TARIKH: 25 OKTOBER 2018 (KHAMIS)

Managing technology transfer

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UNIVERSITIES continuously come up with potentially impactful ideas and technologies generated through research and development initiatives to benefit businesses and communities, and they have the responsibility to transfer the knowledge to society at large.

At Universiti Putra Malaysia (UPM) the role of managing technology transfer is taken on by Putra Science Park (PSP) through activities such as intellectual property (IP) management, promotion and commercialisation of ideas and technology.

From UPM's 2,000 IPs in various fields of research, PSP has facilitated the commercialisation of 166 technologies to diverse groups of industry players, including local and international companies, with a gross sale of more than RM61 million. Due to the efficiency and effectiveness in managing IPs, the varsity has won several major prizes for the National Best Intellectual Property Management for the organisation category in years 2008, 2012, 2014, 2016, 2017 and 2018.

PSP's Innovation Promotion and Marketing Division Translational Research And Innovation Programme head, Dr Mohamad Fakri Zaky Ja'afar, said as the centre of innovation management and technology transfer at UPM, PSP acts as the bridge to partner with business entities to commercialise the university's innovations.

"We always welcome local and international companies to collaborate with the university in commercialising innovative products that would contribute to the country and society," he said.

PSP pioneered an innovative commercialisation approach called the Innohub Programme in 2013, which has been instrumental in developing 57 start-up companies that has generated production and sales on an industrial scale, with a total capitalisation RM7.8 million. The initiative provides a supportive and fertile ecosystem for innovation to grow into commercialised products, especially within the innovative technology sector.

"Over the years we have tried and tested so many ways of transferring our technology and



We provide hands-on solutions through practical information sharing to solve research and commercialisation challenges.

SAMSILAH ROSLAN
Putra Science Park director



PSP's Innovation Promotion and Marketing Division Translational Research And Innovation Programme head, Mohamad Fakri Zaky Ja'afar, with National Best Intellectual Property Management awards won by Universiti Putra Malaysia through the years.

knowledge to the industry, and one of the most effective ways is for the researcher to venture out as entrepreneurs. This is a key feature of the Innohub programme.

"This programme is unique because our graduate students are paired up with our researchers in start-up companies to work on testing and validating which business model will work for the technology that they are developing.

"We have many new technologies entering the market because of this effort. We have vaccines, fertilisers, engineering, information and communications technology and medical products, for example. This in-house programme has secured many pre-commercialisation grants from government agencies, which aim to build and grow the respective businesses, such as through the building of pilot plants to produce products and services," Mohamad Fakri Zaky said.

Armed with this experience, through Putra Dynamics, under the Innovation Promotion and

Marketing Division, PSP has implemented a series of training and development opportunities to help other universities and research agencies with their technology transfer activities.

The training programmes are aimed to enable technology transfer officers, management personnel, IP managers, business incubation managers, start-up chief executive officers, researchers and law officers, who are directly involved in technology transfers at local universities, research institutes and agencies to continue to develop and extend their professional skills and knowledge.

"We provide hands-on solutions through practical information sharing to solve research and commercialisation challenges. We have a proven track record, delivering public and in-house courses for local universities, SME companies, and government organisations," said PSP director Professor Dr Samsilah Roslan.

PSP previously collaborated with the Higher Education Leadership Academy and Innovation and Technology Managers Association in developing curriculum for technology transfer officers and personnel for other universities and institutes of higher learning.

Among PSP's training programmes are Intellectual Property Awareness Workshop, Intellectual Property Valuation Workshop, Lean Market Validation/Start-up coaching, IP and Commercialisation Workshop, Technology Pitching Workshop, Hands-on Industrial Design, Negotiation, and other technology transfer organisation-based needs.

"Plus, with expert trainers, who are experienced practitioners in their field, our training moves beyond theory, giving valuable real-world insights using our latest module. With blended learning experiences and accelerated learning techniques, PSP is able to help the target organisation to achieve training goals either for individuals or the workforce as a whole. We also offer customised course content based on an organisation's specific training needs," Samsilah said.

Visit www.sciencepark.upm.edu.my for more information. For enquiry, contact 03-8947 1618/03-8947 1254 or email putradynamics@upm.edu.my/ promosi@upm.edu.my



PSP offers training packages to private and public universities, research institutes and agencies to develop expertise in technology transfer.

LAMPIRAN 10
NEW STRAITS TIMES (WORLD): MUKA SURAT 79
TARIKH: 25 OKTOBER 2018 (KHAMIS)

CATEGORY 3

Hurricane Willa lashes Pacific coast, weakens to storm

ESCUINAPA: Hurricane Willa crashed ashore in western Mexico yesterday, lashing the Pacific coast with powerful winds and heavy rain before weakening to a tropical storm as it moved inland.

The powerful storm, which was a maximum Category 5 hurricane on Monday, had weakened to Category 3 as it moved toward land.

Forecasters warned that the storm still had the potential to unleash deadly flooding and landslides.

However, storm surge levels would subside over the course of yesterday and Willa was expected to dissipate by the afternoon, the United States National Hurricane Centre said.

Willa first swept over the Marias islands, where Mexico has

a federal prison.

The interior ministry did not respond to questions on whether it had evacuated the 1,000 inmates housed there or what other emergency measures were in place for the penal colony.

"We do not have any reports of damages there so far," the head of Mexico's emergency services, Luis Felipe Puente, said.

More than 4,250 people were evacuated from high-risk areas, including tourists who were on vacation at the beach, he said.

They are being housed in 58 temporary shelters.

At a shelter in Escuinapa, a town of 30,000 people that sits in the middle of the storm's likely path, residents fretted over their houses as they waited out the storm. **AFP**