

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

Bil	Berita	Media	Capaian Berita Penuh
1.	<u>Swamped with plastic waste, Malaysia struggles as global scrap piles up</u> "The situation is getting worse, especially with more and more illegal plastic recycling factories," Yeo Bee Yin, Malaysia's Minister of Energy, Science, Technology, Environment and Climate Change told parliament last week.	Real Exchange	Klik pada tajuk berita
2.	<u>Come clean on Lynas</u> SINCE last week, it is as if the government insists on shifting goalposts when it comes to the Lynas Advanced Material Plant in Gebeng. Not only did the Ministry of Energy, Science, Technology, Environment and Climate Change (Mestec) put the company into an academic review committee and public hearing, now Lynas is being delayed by pending approvals and an awkwardly established bipartisan caucus.	The Sun Daily	Klik pada tajuk berita
3.	<u>Why not give other industries the Lynas treatment as well?</u> Not only did the energy, science, technology, environment and climate change ministry put the company through an academic review committee and public hearing, Lynas is now being delayed by pending approvals and an awkwardly established bipartisan caucus.	Free Malaysia Today	Klik pada tajuk berita
4.	<u>Govt to launch green financing roadmap in 2019</u> Energy, Science, Technology, Environment and Climate Change Minister Yeo Bee Yin (<i>picture</i>) said the government is formulating the new roadmap which is expected to be ready by the third quarter of next year.	Malaysian Reserve	Klik pada tajuk berita

5.	<u>Lynas jamin tidak berhentikan pekerja</u> Pada 11 November lalu, Pengerusi Jawatankuasa Eksekutif Penilaian Operasi Lynas Advance Material Plants (LAMP), Prof Datuk Dr Mazlin Mokhtar, dilaporkan berkata laporan penuh dan hasil kajian akan diserahkan kepada Menteri Tenaga, Sains, Teknologi, Alam Sekitar dan Perubahan, Yeo Bee Yin.	Berita Harian	Klik pada tajuk berita dan rujuk lampiran 1
6.	<u>A caucus, approval delays, sabotaging Lynas? — Hafidz Baharom</u> Not only did the Ministry of Energy, Science, Technology, Environment and Climate Change (Mestec) put the company into an academic review committee and public hearing, now Lynas is being delayed by pending approvals and an awkwardly established bipartisan caucus.	Malay Mail	Klik pada tajuk berita
7.	<u>MIDA records potential green project investments of RM4.1b</u> “IGEM is the biggest flagship event organised annually by the Ministry of Energy, Science, Technology, Environment and Climate Change (MESTECC) to create a platform for solution providers and green energy businesses to tap into the fast-expanding ASEAN market by showcasing the latest innovations to policy makers, government organisations, investors and the mass market.	New Straits Times	Klik pada tajuk berita
8.	<u>MIDA rekod pelaburan hijau RM4.1b</u> “IGEM adalah acara utama terbesar yang dianjurkan setiap tahun oleh Kementerian Tenaga, Sains, Teknologi, Alam Sekitar dan Perubahan Iklim (MESTECC) untuk mewujudkan satu platform bagi penyedia penyelesaian dan perniagaan tenaga hijau untuk memanfaatkan pasaran ASEAN yang pesat berkembang dengan mempamerkan inovasi terkini kepada penggubal undang-undang, organisasi kerajaan, pelabur dan pasaran massa.	Utusan Malaysia	Klik pada tajuk berita

9.	<u>AADK juara Karnival Sukan Inter CGSO 2017/18</u> Juara bagi acara itu dimenangi oleh Agensi Anti Dadah Kebangsaan (AADK), manakala naib juara pula diraih Agensi Nuklear Malaysia dan tempat ketiga, Radio Televisyen Malaysia (RTM).	Kosmo!	Klik pada tajuk berita
10.	<u>2 buku panduan siasatan jenayah dilancar</u> “Antara agensi yang terbabit dalam menghasilkan buku ini ialah Lembaga Perlesenan Tenaga Atom (AELB), Jabatan Bomba dan Penyelamat, Kementerian Kesihatan, Jabatan Kimia dan Jabatan Perkhidmatan Veterinar.	Berita Harian	Klik pada tajuk berita
11.	<u>Cukuplah kekayaan seputar elit</u> “Kita juga mesti bersedia dengan kebangkitan dan kemampuan kecerdasan buatan (AI) yang mampu memenuhi cabaran dengan kesedaran kritikal mengenai manfaat dan potensi kegagalan,” katanya.	Harian Metro	Klik pada tajuk berita
12.	<u>MPK serbu 15 kilang proses plastik haram</u> Lima belas kilang haram memproses plastik disita pada operasi bersepadu di beberapa lokasi di kawasan pentadbiran Majlis Perbandaran Klang (MPK) semalam.	Berita Harian	Rujuk lampiran 2

TEMPATAN

Bil	Berita	Media	Capaian Berita Penuh
13.	<u>Majikan disaran guna teknologi baru</u> Majikan di semua sektor perlu mempertingkatkan pelaksanaan automasi bagi proses pematuhan keselamatan termasuk penggunaan peralatan keselamatan selaras Revolusi Perindustrian Keempat (Industri 4.0)	Harian Metro	Rujuk lampiran 3
14.	<u>2019 Budget Humanising growth:</u>	New Straits Times	Klik pada tajuk berita

	The education system needs to be overhauled in line with new technologies such as automation, artificial intelligence (AI), big data and the Internet of Things.		
15.	<u>Tingkatkan automasi di tempat kerja</u> Majikan di semua sektor perlu mempertingkatkan pelaksanaan automasi bagi proses pematuhan keselamatan termasuk penggunaan peralatan keselamatan selaras Revolusi Perindustrian Keempat (Industri 4.0).	Berita Harian	Klik pada tajuk berita
16.	<u>Kerajaan perluas jalur lebar</u> Kerajaan sedang mengkaji beberapa alternatif untuk membaiki dan memperluas rangkaian jalur lebar ke seluruh negara bagi membolehkan rakyat bersedia menghadapi Revolusi Perindustrian Keempat (Industri 4.0), menurut Menteri Komunikasi dan Multimedia, Gobind Singh Deo.	Kosmo!	Klik pada tajuk berita
17.	<u>Boost automation for workplace safety compliance, says Lee</u> Employers in all sectors should boost automation applications for safety compliance, including in the use of safety equipment in line with the fourth industrial revolution (Industry 4.0).	New Straits Times	Klik pada tajuk berita
18.	<u>Govt mulling alternatives for providing broadband service nationwide</u> The government is looking at several alternatives to improve and expand the broadband network across the country to enable the people to prepare for the Fourth Industrial Revolution (Industry 4.0).	The Star	Klik pada tajuk berita
19.	<u>Govt mulls options to expand net access, says Gobind</u> THE government is looking at several options to improve and expand broadband network across the country so that people can prepare for the Fourth Industrial Revolution (Industry 4.0).	The Malaysian Insight	Klik pada tajuk berita
20.	<u>Government mulling alternatives for</u>	The Borneo	Klik pada tajuk

	providing broadband service nationwide The government is looking at several alternatives to improve and expand the broadband network across the country to enable the people to prepare to face the Fourth Industrial Revolution (Industry 4.0).	Post	berita
21.	Bridging the talent gap in cybersecurity Deputy Education Minister Teo Nie Ching, in her speech at the recent Focus Group Dialogue: Cybersecurity Challenge-Bridging the Gap to Industry 4.0, said IT staff across the organisations and industry should be given skills training.	New Straits Times	Klik pada tajuk berita
22.	MAI invests RM2m in blockchain tech The Malaysia Automotive Institute (MAI) has signed a memorandum of agreement (MoA) with Crypto Valley Malaysia Association (CVM) to initiate blockchain technology applications in the automotive sector.	The Malaysian Reserve	Klik pada tajuk berita
23.	Malaysia's Finance Minister Announces Crypto Plans For Blockchain Regulations in 2019 Originally, Malaysia was set to start the regulation of its crypto industry in 2017, but things were slower than expected and the whole processes ended up being pushed to 2019.	Bit Coin Exchange Guide	Klik pada tajuk berita
24.	World's first Commonwealth Youth City The city will include high-technology systems, including blockchain, artificial intelligence, big data and other futuristic features.	The Star	Klik pada tajuk berita
25.	Guan Eng sees tech as key to M'sia roaring again as Asian Tiger "Some of the latest technology involving artificial intelligence and big data that are part of Industry 4.0 have already been applied in the domestic retail, marketing and transport industries.	Malaysiakini	Klik pada tajuk berita
26.	Inisiatif digital industri getah bakal diperkenal	Berita Harian	Klik pada tajuk berita

	Beliau berkata, pengenalan sistem berteraskan teknologi maklumat dan digital seperti blockchain mampu menyumbang kepada pertumbuhan industri getah yang agak perlahan ketika ini.		
27.	<u>Saluran air tersumbat punca banjir</u> SERAMAI 42 penduduk terjejas susulan banjir kilat di rumah panjang Jalan Kanowit Julau Durin, Bintangor, petang semalam.	Harian Metro	Klik pada tajuk berita
28.	<u>Pacu industri, kerjaya hijau rantau ASEAN - PM</u> “Dalam konteks sama, kita menyaksikan pertumbuhan mendadak terhadap sektor tenaga boleh diperbaharui seperti angin dan solar.	Berita Harian	Klik pada tajuk berita dan rujuk lampiran 4
29.	<u>Galakkan industri, kemahiran dan pekerjaan hijau di Asean</u> “Dalam perkembangan berkaitan juga kita menyaksikan pertumbuhan kukuh terutamanya dalam sektor tenaga boleh diperbaharui seperti tenaga solar dan angin serta pengeluaran peralatan dan pemasangan bagi penjimatan tenaga dan pemanasan, sekali gus mewujudkan pekerjaan di rantau ini.	Sinar Harian	Klik pada tajuk berita
30.	<u>PM: Malaysia to promote potential of green industries and jobs in Asean</u> “We have also seen strong growth in the renewable energy sector such as wind and solar power as well as production of equipment and installations for heating and energy savings that subsequently create jobs in the region.”	New Straits Times	Klik pada tajuk berita dan rujuk lampiran 5
31.	<u>M'sia to promote green industries, jobs, skills in Asean (Updated)</u> The Prime Minister said the Malaysian government aims to boost the growth of its green technology sector, with a targeted revenue of RM180 billion while creating more than 200,000 green jobs by 2030.	The Sun Daily	Klik pada tajuk berita
32.	<u>Malaysia to promote green industries, jobs,</u>	The Borneo	Klik pada tajuk

	skills in Asean “In the same vein, we have seen strong growth, particularly in the renewable energy sector such as wind and solar power, as well as the production of equipment and installations for heating and energy saving that subsequently create jobs in the region.	Post	berita
33.	Global warming outpaces efforts to slow it — UN The news comes despite breakneck growth in solar and wind power, gains in energy efficiency, and climate action by business and local governments, said Andrew Steer, president and CEO of the Washington DC-based World Resources Institute.	The Borneo Post	Klik pada tajuk berita
34.	Caj 20 sen beg plastik masuk tabung khas Caj 20 sen yang dikenakan premis perniagaan bagi setiap beg plastik di negeri ini akan dikutip Kerajaan Selangor dan disalurkan ke satu tabung khas untuk memanfaatkan masyarakat.	Sinar Harian	Klik pada tajuk berita dan rujuk lampiran 6
35.	Dr Mahathir: Malaysia to promote green industries, jobs, skills in ASEAN Dr Mahathir said ASEAN looks forward to working with its dialogue partners China, South Korea and Japan to make meaningful headway for the future of green jobs and skills in the region.	The Edge Markets	Klik pada tajuk berita
35.	Putrajaya aims for 200,000 green tech jobs by 2030 The government aims to boost the growth of its green technology sector, with a targeted revenue of RM180 billion and the creation of more than 200,000 green jobs by 2030.	Malaysiakini	Klik pada tajuk berita
36.	Dr M: Malaysia to promote green industries, jobs, skills in Asean Malaysia hopes to promote the identification of the potentials and prospects for green industries and jobs in the Asean member countries during its tenure as the chairman of	Malay Mail	Klik pada tajuk berita dan rujuk lampiran 7

	Asean labour sector, Tun Dr Mahathir Mohamad said today.		
37.	<u>S'gor govt considers collecting 20 sen plastic bag charge</u> The Selangor government is considering collecting the 20 sen charge from business premises that currently impose the fee on consumers for the sale each plastic bag, beginning next year.	The Sun Daily	Klik pada tajuk berita dan rujuk lampiran 8
38.	<u>Air keruh di tiga negeri</u> "Banyak sebab tercetusnya isu itu antaranya pencemaran malah faktor hujan lebat turut menyumbang kepada kadar kekeruhan sumber air.	Sinar Harian	Klik pada tajuk berita
39.	<u>ASEAN ANGEL ALLIANCE SUMMIT 2018: CHANGING THE WORLD ONE INVESTMENT AT A TIME</u> THE world is changing rapidly and the pace technological change is unprecedented. According to a whitepaper by ARM, the architects of the ARM family of CPUs, there will one trillion Internet of Things (IoT) devices by 2035 and this signals an incredible change in nearly every industry and sector.	Digital News Asia	Klik pada tajuk berita
40.	<u>MACC urged to probe regulators who monitor Lynas' radioactive waste management</u> DAP lawmaker Wong Tack (PH-Bentong) is calling on the Malaysian Anti-Corruption Commission (MACC) to investigate regulators whom he is accusing of having indulged Lynas Malaysia Sdn Bhd's alleged mismanagement of its radioactive waste at its Lynas Advanced Material Plant (LAMP) in Gebeng, Pahang.	The Edge Markets	Klik pada tajuk berita
41.	<u>Ancaman Industri 4.0</u> Mutakhir ini kita sering mendengar istilah Revolusi Perindustrian Keempat (Industri 4.0) diperkatakan. Istilah ini merujuk kepada perkembangan pesat teknologi, terutamanya dalam bidang perindustrian apabila sistem	Utusan Malaysia	Rujuk lampiran 9

	automasi pintar diguna pakai dan mendominasi proses pengeluaran barangan dan perkhidmatan.		
42.	<u>TNB shares hit by lacklustre Q3 earnings</u> Tenaga Nasional Berhad (TNB) share price fell 3.1% to RM14.26 yesterday, following a lacklustre set of earnings for the third quarter.	The Star	Rujuk lampiran 10
43.	<u>Imtiaz Kuala Terengganu cipta 'penawar'</u> Masalah kulit dihadapi sebahagian besar pelajar Sekolah Menengah Imtiaz Kuala Terengganu memporong pasukan inovasi sekolah itu mencipta set losen, sabun dan <i>balm</i> bagi merawat penyakit kulit <i>scabies</i>.	Harian Metro	Rujuk lampiran 11
44.	<u>Lynas to halt operations temporarily</u> Lynas Corporation Ltd (Lynas), which processes rare earths at its factory in the Gebeng Industrial Zone here. Will temporarily halt operations next month.	New Straits Times	Rujuk lampiran 12
45.	<u>Blockchain technology as enabler to Industry 4.0 implementation</u> In the new age of big data and cloud computing, the narrative for data management is rapidly changing - demanding, a higher degree of transparency, independence and security.	New Straits Times	Rujuk lampiran 13
46.	<u>Show of thanks for going plastic-free</u> A plastic- and polystyrene-free campaign launched in Jan 1 last year for seven days has brought about a positive outcome as money collected from plastic bag requests in shops has immensely decreased.	The Star	Rujuk lampiran 14
47.	<u>Pembelajaran sains cetus kreativiti</u> Sains, Teknologi, Kejuruteraan dan Matematik (STEM) kerap dianggap sebagai pelajaran yang susah dan membosankan di dalam bilik darjah.	Utusan Malaysia	Rujuk lampiran 15
48.	<u>3D bantu pendidikan</u> Perkembangan pembelajaran di bilik darjah	Harian Metro	Rujuk lampiran 16

	perlu selari dengan pembangunan Revolusi Industri 4.0 (IR4.0).		
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ANTARABANGSA

Bil	Berita	Media	Capaian Berita Penuh
49.	<u>Flooding, traffic chaos as heavy rains lash Sydney</u> SYDNEY: Flights were cancelled, railway lines closed and motorists stranded on flooded roads, as a month's worth of rain fell on Sydney early Wednesday, leaving emergency services battling to respond.	The Borneo Post	Klik pada tajuk berita
50.	<u>Global warming outpacing efforts to slow it, says UN</u> Paris: Humanity is falling further behind in the race against climate change, with the gap between greenhouse gas emissions and levels needed to achieve the Paris climate treaty temperature goals continuing to widen, the United Nations said.	The Star	Rujuk lampiran 17
51.	<u>Ribut sekali dalam 100 tahun badai Sydney</u> Sydney – Hujan lebat berserta angin kencang membadaikan bandar terbesar Australia, Sydney kelmarin, mengakibatkan kekalutan trafik, air membanjiri jalan dan kediaman, penerbangan dibatalkan serta banyak kediaman terputus bekalan elektrik.	Kosmo!	Rujuk lampiran 18
52.	<u>Plastik pembunuh penyu Pulau Pari</u> Jakarta – Sampah plastik, minyak yang mencemari perairan Pulau Pari, kepulauan Seribu menyebabkan kematian penyu yang menjadikan kawasan itu sebagai habitat mereka.	Sinar Harian	Rujuk lampiran 19
53.	<u>One in 100 year storm lashes Sydney</u> Sydney: Torrential rain and gale force winds	The Sun	Rujuk lampiran 20

	lashed Australia's biggest city of Sydney yesterday causing commuter chaos, flooding streets, railway stations and homes, grounding flight and leaving hundreds of people without electricity.		
54.	<u>Climate change devours ancient Lebanese cedar trees</u> Tannourine: High up in Lebanon's mountains, the lifeless grey trunks of dead cedar trees stand stark in the deep green forest, witnesses of the climate change that has ravaged them.	The Star	Rujuk lampiran 21
55.	<u>Scientists 'breed' new corals on Great barrier Reef</u> Sydney – Scientists have launched the largest-ever attempt to regenerate coral on the endangered Great Barrier Reef by harvesting millions of the creatures' eggs and sperm during their annual spawning.	Malay Mail	Rujuk lampiran 22
56.	<u>Climate change devours Lebanon cedar trees</u> Tannourine (Lebanon): High up in Lebanon's mountains, the lifeless grey trunks of dead cedar trees stand stark in the deep green forest, witnesses of the climate change that has ravaged them.	New Straits Times	Rujuk lampiran 23
57.	<u>Scientists reseed corals on Great Barrier Reef</u> Sydney: Scientists have launched the largest-ever attempt to regenerate coral on the endangered Great Barrier Reef by harvesting millions of the creatures' eggs and sperm during their annual spawning.	New Straits Times	Rujuk lampiran 24
58.	<u>Sekali dalam 100 tahun</u> Ribu luar biasa di Sydney cetus banjir kilat, paksa penerbangan dibatal.	Harian Metro	Rujuk lampiran 25

LAMPIRAN 1
BERITA HARIAN (SETEMPAT): MUKA SURAT 33
TARIKH: 29 NOVEMBER 2018 (KHAMIS)

Lynas jamin tidak berhentikan pekerja

Kuantan: Lynas Corporation Ltd (Lynas) memberi jaminan tidak akan memberhentikan 645 pekerja jika melaksanakan penutupan sementara operasi lojinya di Kawasan Perindustrian Gebeng, di sini.

Timbalan Presiden

Modal Insan dan

Komuniti Lynas,

Mimi Afzan Afza

Abdullah berkata,

langkah

memberhenti-

kan pekerja tidak

berada dalam pe-

rancangan syari-

kat, sebaliknya akan

menggunakan tenaga

kerja itu untuk tugas lain.

“Kebajikan staf kita akan

dijaga, kita tidak akan buang

mereka. Sekiranya langkah

untuk menghentikan se-

mentara operasi loji dimuk-

tamadkan, kita akan guna

pekerja sedia ada untuk

menjalankan tugas lain.

“Kita banyak program (tu-

gasan) lain seperti menaik

taraf loji dan program tang-

gungjawab sosial korporat

(CSR) yang memerlukan pembabitan pekerja sedia ada,” katanya, semalam.

Kelmarin, Ketua Pegawai Operasi dan Pengarah Urusan Lynas Corporation Ltd, Amanda Lacaze dilaporkan berkata, syarikat itu akan me-

nutup operasi loji

mereka sekira-

nya gagal

mendapat

kelulusan

kerajaan

berhubung

pertimba-

ngan me-

ningkatkan

kadar penge-

luaran unsur nadir

bumi berkualiti tinggi.

Beliau berkata, permohonan mengenai perkara itu difailkan selepas syarikat kini menghampiri had pengeluaran tahunan seperti yang diluluskan kerajaan.

Mengulas mengenainya, Mimi Afzan Afza berkata, langkah penutupan sementara loji itu sudah dikaji dengan mengambil kira pelbagai faktor.

**“Kebajikan staf
kita akan dijaga,
kita tidak akan
buang mereka
Mimi Afzan”**

LAMPIRAN 2
BERITA HARIAN (SETEMPAT): MUKA SURAT 33
TARIKH: 29 NOVEMBER 2018 (KHAMIS)

Klang

MPK serbu 15 kilang proses plastik haram

Lima belas kilang haram memproses plastik disita pada operasi bersepadu di beberapa lokasi di kawasan pentadbiran Majlis Perbandaran Klang (MPK) semalam.

Selain penyitaan kilang, 21 pendatang asing tanpa izin (PATI) turut ditahan pada operasi di Jalan Sungai Jati.

Operasi bermula jam 10 pagi dan berakhir dua jam kemudian diketuai MPK dengan kerjasama Jabatan Imigresen Selangor, Jabatan Alam Sekitar (JAS) serta Tenaga Nasional

Berhad (TNB).

Timbalan Pengarah Perlesenan MPK Mohd Fharulisa Md Isa berkata, operasi itu dibuat susulan arahan Yang Dipertua MPK Datuk Mohamad Yasid Bidin yang mahukan kilang haram di Klang ditutup sepenuhnya.

“Kilang plastik ini tidak mendapat kelulusan oleh majlis berikutan ia terletak berdekatan dengan kawasan penduduk setempat yang boleh membahayakan kesihatan masyarakat,” katanya.

LAMPIRAN 3
HARIAN METRO (SETEMPAT): MUKA SURAT 28
TARIKH: 29 NOVEMBER 2018 (KHAMIS)

Putrajaya

Majikan disaran guna teknologi baru

Majikan di semua sektor perlu mempertingkatkan pelaksanaan automasi bagi proses pematuhan keselamatan termasuk penggunaan peralatan keselamatan selaras Revolusi Perindustrian Keempat (Industri 4.0).

Pengerusi Institut Keselamatan dan Kesihatan Pekerjaan Negara (NIOSH), Tan Sri Lee Lam Thye berkata, berikutan itu, majikan perlu bersedia membuat pelaburan terhadap kemudahan dan peralatan teknologi terkini berkaitan keselamatan dan kesihatan pekerjaan.

“Saya berharap majikan menyahut seruan ini dalam melengkapi pekerja dengan teknologi baharu, peralatan canggih di samping bekerja dalam

suasana selamat dan sihat.

“Penggunaan teknologi terkini juga membolehkan syarikat melindungi pekerja dengan lebih berkesan selain membantu mencapai daya saing melalui pengurangan kos,” katanya pada sidang media Persidangan Saintifik Keselamatan dan Kesihatan Pekerjaan Kali Kelima (SciCOSH 2018) di sini, semalam.

Beliau turut memberikan contoh teknologi terkini yang boleh diguna pakai seperti peralatan perlindungan diri (PPE) dilengkapi sensor atau teknologi pengenalan frekuensi radio (RFID) yang dapat membantu mempercepatkan pengumpulan data dengan tepat dan cekap.

LAMPIRAN 4
BERITA HARIAN (DASAR DAN PENTADBIRAN): MUKA SURAT 3
TARIKH: 29 NOVEMBER 2018 (KHAMIS)

SEMPENA PERASMIAN MESYUARAT MENTERI-MENTERI BURUH ASEAN KE-25

[FOTO AIZUDDIN SAAD /BH]



Kulasegaran bersama rakan sejawatan pada majlis perasmian Mesyuarat Menteri-Menteri Buruh ASEAN Ke-25 di Kuala Lumpur, semalam.

'Pacu industri, kerjaya hijau'

➔ ASEAN
mampu
perkasa potensi
menerusi
kerjasama: PM

Oleh Veena Babulal dan
Luqman Arif Abdul Karim
cnews@nstp.com.my

► Kuala Lumpur

Tun Dr Mahathir Mohamad berharap usaha mengenal pasti potensi dan peluang industri serta kerjaya hijau dalam kalangan negara anggota ASEAN berupaya diperkasakan.

Perdana Menteri berkata, usaha sama bakal dirintis untuk merangka dasar berkaitan, se-

laras peranan Malaysia sebagai Pengerusi Sektor Buruh ASEAN bagi tempoh 2018 hingga 2020.

"Memacu langkah ke depan, kita akan menjalin kerjasama dengan rakan dialog ASEAN merangkumi China, Korea dan Jepun, untuk melakar masa depan cerah dalam mewujudkan peluang kerjaya dan kemahiran hijau di rantau ini.

Keyakinan tinggi

"Saya menaruh keyakinan menerusi penyeliaan Menteri Sumber Manusia (M Kulasegaran), sektor buruh ASEAN bakal menyaksikan kemajuan signifikan dalam mempromosi dan memudahkan cara perkembangan usaha menghijaukan pelbagai industri.

"Inisiatif sama diunjur berupaya menempa kejayaan dalam mewujudkan rangkaian peluang pekerjaan dan mengasah kemahiran berkaitan," katanya.

Teks ucapan beliau sempena perasmian Mesyuarat Menteri-Menteri Buruh ASEAN Ke-25 dibacakan Kulasegaran, di sini, semalam.

Dalam tempoh dua tahun lalu, Dr Mahathir berkata, peluang pekerjaan dalam ekonomi hijau seluruh ASEAN berkembang 3.2 peratus, berbanding kadar pertumbuhan keseluruhan ekonomi sekitar lima hingga enam peratus.

Beliau berkata, perangkaan itu mewakili hampir 1.4 juta peluang pekerjaan baharu dicipta dalam industri hijau seperti dipaparkan menerusi Laporan Tahunan Bank Pembangunan Singapura (DBS) 2017.

"Dalam konteks sama, kita menyaksikan pertumbuhan mendadak terhadap sektor tenaga boleh diperbaharui seperti angin dan solar.

"Perkembangan positif sama dapat disaksikan dalam penge-

luaran peralatan dan pemasangan peranti penjimatan tenaga yang seterusnya menjana peluang pekerjaan di rantau ini," katanya.

Suntik kesedaran

Melalui kaca mata Malaysia, Perdana Menteri berkata, sektor menyumbang kepada kerjaya hijau ialah pertanian, pembinaan, perhutanan, pengeluaran, tenaga boleh diperbaharui, pengangkutan dan pengurusan sisa buangan.

Sehubungan itu, beliau berkata, wujud keperluan untuk menyuntik kesedaran mengenai kerjaya hijau, merangkumi usaha mengasah kemahiran, pensijilan dan penarafan program berkaitan.

"Ini adalah antara beberapa aspek berpotensi diterokai Malaysia, malah berupaya dimanfaatkan negara anggota ASEAN," katanya.

LAMPIRAN 5
NEW STRAITS TIMES (NATION): MUKA SURAT 12
TARIKH: 29 NOVEMBER 2018 (KHAMIS)

LABOUR SECTOR CHAIR

Malaysia to promote green industries, jobs in Asean

KUALA LUMPUR: Malaysia hopes to promote the identification of potentials and prospects for green industries and jobs in Asean member states, and develop corresponding policies.

Prime Minister Tun Dr Mahathir Mohamad said this in reference to the country's role as the chair of the association's labour sector from this year to 2020.

"We look forward to working with Asean Dialogue partners, such as China, the Republic of South Korea and Japan, to make a headway for the future of green jobs and skills in Asean.

"I am confident that under the stewardship of the human re-

sources minister (M. Kulasegaran), the Asean labour section will witness significant outcomes in promoting and facilitating the greening of industries as well as jobs and skills," he said in his speech, read by Kulasegaran at the 25th Asean Labour Ministers' Meeting here yesterday.

Dr Mahathir said in the past two years, employment in green economy across the bloc grew by 3.2 per cent, compared with the overall economic expansion of five to six per cent.

"As a result, nearly 1.4 million green jobs were created, based on the Development Bank of Singapore's 2017 annual report.

"We have seen strong growth in

the renewable energy sector, such as wind and solar power, as well as production of equipment and installations for heating and energy savings that subsequently create jobs in the region."

He said sectors that contributed to green jobs are agriculture, construction, forestry, renewable energy, transport and waste management.

He said there was a need to raise awareness about green jobs as well as up-skilling, reskilling, grading and certification on related programmes.

He added that these were the aspects that Malaysia could exploit and could be beneficial to Asean.

LAMPIRAN 6
SINAR HARIAN (TENGAH): MUKA SURAT 17
TARIKH: 29 NOVEMBER 2018 (KHAMIS)

Caj 20 sen beg plastik masuk tabung khas

SHAH ALAM - Caj 20 sen yang dikenakan premis perniagaan bagi setiap beg plastik di negeri ini akan dikutip Kerajaan Selangor dan disalurkan ke satu tabung khas untuk memanfaatkan masyarakat.

Exco Alam Sekitar, Teknologi Hijau, Sains, Teknologi Dan Inovasi (STI) dan Hal Ehwal Pengguna, Hee Loy Sian, berkata, cadangan bagi pelaksanaan kutipan itu dijangka bermula pada tahun depan melibatkan pasar raya-pasar raya utama.

Menurutnya, mekanisme kutipan berkenaan akan dibuat oleh pihak berkuasa tempatan.

"Kutipan terkumpul oleh kerajaan negeri akan disalurkan ke akaun tabung amanah bagi kegunaan kempen-kempen kesedaran di peringkat akar umbi.

"Bermula 2019, Kerajaan Negeri Selangor juga akan memperluaskan lagi kempen bioplastik dan polistirena ke sekolah-sekolah dan kantin sekolah sebagai usaha pendidikan awal," katanya di Sidang Dun, semalam.

Dalam pada itu, beliau berkata, kempen bebas beg plastik di Selangor boleh di-



Caj 20 beg plastik yang dikenakan premis perniagaan akan dikutip kerajaan negeri dan dimasukkan ke tabung khas.

anggap berjaya berdasarkan maklumat diterima bahawa hasil kutipan caj beg plastik yang semakin berkurangan di pasar raya.

"Keadaan ini buktikan kebanyakan pengguna sudah biasakan diri bawa beg sendiri semasa beli belah. Kerajaan juga sedia mempertimbangkan cadangan menggunakan beg kertas sebagai alternatif kepada beg plastik.

"Bagaimanapun ia perlu diperhalusi mengambil kira penggunaan kertas juga mempunyai kesan buruk terhadap alam sekitar kerana akan melibatkan penebangan pokok selain tidak sesuai

untuk barang basah dan berat," katanya.

Selangor mula melaksanakan kempen 'Hari Tanpa Beg Plastik' pada 2010, dengan sokongan kebanyakan pasar raya besar, pasar mini dan premis perniagaan, pada setiap Sabtu.

Pengguna perlu membayar 20 sen bagi setiap beg plastik dan wang itu disalurkan kepada badan kebajikan atau program kepenggunaan serta pemuliharaan alam sekitar.

Kempen itu kemudiannya dilanjutkan kepada setiap hari mulai 1 Januari 2017 dan turut merangkumi kempen bebas bekas polistirena.

LAMPIRAN 7
MALAY MAIL (TOP NEWS): MUKA SURAT 8
TARIKH: 29 NOVEMBER 2018 (KHAMIS)

Malaysia to promote green industries, jobs in Asean

KUALA LUMPUR — Malaysia hopes to promote prospects and jobs for green industries to Asean member countries during its tenure as chairman of the grouping's labour sector, Tun Dr Mahathir Mohamad said.

The prime minister said Malaysia was keen to develop corresponding regional policies related to green industries during its three-year tenure until 2020.

"Let us embark on our journey immediately. Malaysia will do its best to take the labour sector forward by incorporating green jobs and skills into the aegis of our chairmanship," he said in his speech read by Human Resources

Minister M. Kulasegaran at the opening of the 25th Asean Labour Ministers Meeting here yesterday.

Dr Mahathir said Asean was looking forward to working with its dialogue partners China, South Korea and Japan to make meaningful headway for the future of green jobs and skills in the region.

He expressed confidence that the association's labour sector would see significant outcomes in promoting and facilitating the greening of industries as well as in jobs and skills.

Dr Mahathir said over the last two years, employment in the green economy across Asean had grown by 3.2 per cent compared

to the overall economic growth of five to six per cent which is almost 1.4 million new green jobs created, as reported in the Development Bank of Singapore Annual Report 2017 on Green Job Opportunities in Asean.

"In the same vein, we have seen strong growth, particularly in the renewable energy sector such as wind and solar power, as well as the production of equipment and installations for heating and energy saving that subsequently create jobs in the region.

"As technology evolves, we can expect an increase in the creation of new green jobs, and stronger growth in current

occupations and greening industries."

The prime minister added the government aimed to boost the growth of its green technology sector with a targeted revenue of RM180 billion and creating more than 200,000 green jobs by 2030.

He said he was optimistic of the prospects of the sector, stressing that now was the time for the government and workers and employer organisations to venture into the promotion of green jobs and skills.

The greening of the regional economy also demands that the people in the region specialise in the right skills, adapt to changes and seize the new opportunity, Dr Mahathir said. — Bernama

LAMPIRAN 8
THE SUN (NEWS WITHOUT BORDERS): MUKA SURAT 6
TARIKH: 29 NOVEMBER 2018 (KHAMIS)

Plastic bag charges to go to state govt

> Money collected will be used for awareness campaigns: Selangor exco

BY **AMAR SHAH MOHSEN**
newsdesk@thesundaily.com

SHAH ALAM: The Selangor government is considering collecting the 20 sen charge from business premises that impose the fee on consumers for the sale each plastic bag, beginning next year.

State Environment, Green Technology and Consumer committee chairman Hee Loy Sian (pix) said the collection would be done through local authorities and would be used for awareness campaigns.

Presently, the collection is utilised by the premises themselves for corporate social responsibility initiatives, including environmental conservation.

"The state government is planning to start collecting the 20 sen that is being charged for

each plastic bag and which is being collected by businesses, especially supermarkets and convenience stores.

"The collection will be done through the local councils and is expected to be implemented by next year. It will be channelled to a trust fund for awareness campaign at the grassroots level," he said when winding up his 2019 Budget speech at the state legislative assembly yesterday.

Hee said the proposal was also in accordance with Malaysia's Roadmap Towards Zero Single-Use Plastic 2018-2030 that was launched in October.

Selangor had, beginning in January 2017, required major hypermarkets and supermarkets to charge 20 sen for each plastic bag at the shop counter upon request.

Hee added that contrary to claims that efforts to reduce the use of plastic bags



through the 20 sen charge have failed, the campaign has been a success, evident through the reduction in the number of consumers purchasing the plastic bags.

"This campaign can be considered a success because based on information received from the business premises, the collection has reduced. This proves most consumers are already getting used to bringing their own bags," he said.

On a suggestion for the government to replace plastic bags with paper bags, Hee said Selangor would consider it but said it was highly unlikely due to the impact it would have on the environment.

"There are pros and cons. For one, it can be easily recycled, it also involves cutting down trees. It is also not suitable in carrying wet and heavy items in it," he said.

LAMPIRAN 9
UTUSAN MALAYSIA (FORUM): MUKA SURAT 18
TARIKH: 29 NOVEMBER 2018 (KHAMIS)

Ancaman Industri 4.0

SAUDARA PENGARANG,

MUTAKHIR ini kita sering mendengar istilah Revolusi Perindustrian Keempat (Industri 4.0) diperkatakan. Istilah ini merujuk kepada perkembangan pesat teknologi, terutamanya dalam bidang perindustrian apabila sistem automasi pintar diguna pakai dan mendominasi proses pengeluaran barangan dan perkhidmatan.

Sebenarnya, Industri 4.0 sudah bermula. Perkhidmatan perbankan internet, automasi kutipan tol di lebuh raya, pembayaran tempat letak kereta secara aplikasi telefon pintar dan pengoperasian transit aliran ringan (LRT) tanpa pemandu adalah antara aspek Industri 4.0 yang secara sedar atau tidak, telah mengambil alih fungsi tenaga kerja manusia di negara kita.

Selain itu, kilang-kilang juga telah banyak yang beralih kepada mesin dan robot apabila 50 peratus atau lebih proses pengeluaran dikendalikan oleh

mesin sepenuhnya.

Justeru, hanya sedikit tenaga manusia diperlukan bagi tugas mengawal selia sistem tersebut. Dianggarkan, 65 peratus pekerjaan akan hilang di Malaysia pada 2027 dek dominasi automasi mesin dan robot.

Selain mesin dan robot, aplikasi-aplikasi digunakan dalam telefon pintar seperti Uber atau Grab, mempunyai sistem kawal selia perkhidmatan yang mengawal tingkah-laku pengguna atau pemandu dalam aplikasi tersebut.

Kaedah ganjaran dan penalti yang dikawal oleh kod komputer menyelaraskan dan mendisiplinkan pihak-pihak terbabit. Intervensi manusia hanya diperlukan dalam keadaan di mana berlaku konflik luar dari keupayaan sistem pintar yang dibina.

Mesin dan robot akan menjadi lebih pintar. Kenderaan yang dipandu sendiri oleh komputer misalnya, kini giat dibangunkan. Bayangkanlah apa akan berlaku dalam tempoh lima ke 10 tahun akan datang

apabila pengangkutan awam dan kenderaan persendirian mampu berjalan sendiri dengan kawalan sistem pintar komputer?

Semua perkembangan di atas memerlukan sumber tenaga manusia berkemahiran dan berpengetahuan tinggi. Sebaliknya, sumber tenaga kerja kurang mahir akan digantikan dengan mesin dan robot. Peluang pekerjaan untuk kelompok ini akan semakin berkurangan dan jurang pendapatan antara pekerja mahir dan kurang mahir akan terus melebar.

Industri 4.0 menuntut modal insan yang mampu menguasai bidang sains, matematik, komputer dan analisis data besar. Bagi menghadapi Industri 4.0, kita memerlukan modal insan yang mendahului keupayaan mesin dan robot.

**PROFESOR MADYA DR.
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LAMPIRAN 10
THE STAR (NEWS): MUKA SURAT 5
TARIKH: 29 NOVEMBER 2018 (KHAMIS)

TNB shares hit by lacklustre Q3 earnings

PETALING JAYA: Tenaga Nasional Bhd's (TNB) share price fell 3.1% to RM14.26 yesterday, following a lacklustre set of earnings for the third quarter.

It was the second biggest loser on Bursa Malaysia with 10.2 million shares traded.

Analysts have revised earnings forecast for TNB to account for the higher effective tax rate, higher-than-expected associate losses as well as partial non-pass-through of higher fuel costs.

RHB Research is revising TNB's financial year 2018 (FY18) to FY20 earnings by 6.5% to 14%, while Kenanga Research is cutting TNB's FY18 to FY19 estimates by 16% to 8%.

TNB's 60% lower net profit at RM501mil during the third quarter compared to the preceding quarter was mainly due to the recognition of an additional RM290mil impairment for its 30%-owned Turkish associate Gama Enerji Anonim Sirketi (GEAS).

The impairment was in line with the depreciation of the Turkish lira against ringgit.

On a year-to-date basis, TNB has fully provided for impairments totalled at RM500mil for GEAS.

However, MIDF Research in its research report said the underlying fundamentals in the Turkey power sector is intact with decreasing reserve margins, which bodes well for merchant market pricing and

consumption that is outgrowing new capacity additions.

"GEAS has been posting positive earnings before interest, tax, depreciation and amortisation in at least the past five quarters," said MIDF Research.

Meanwhile, Kenanga Research opined that the high fuel cost is not a matter of concern, as it is transferable under the Imbalance Cost Pass-Through (ICPT) framework to end users.

"As such, we are not worried with the sequential weaker earnings which were largely affected by higher fuel costs, as it will be matched in future by ICPT under-recovery at its topline level."

LAMPIRAN 11
HARIAN METRO (SETEMPAT): MUKA SURAT 28
TARIKH: 29 NOVEMBER 2018 (KHAMIS)

Imtiaz Kuala Terengganu cipta 'penawar'

Kuala Terengganu: Masalah kulit dihadapi sebahagian besar pelajar Sekolah Menengah Imtiaz Kuala Terengganu mendorong pasukan inovasi sekolah itu mencipta set losen, sabun dan balm bagi merawat penyakit kulit *scabies*.

Penghasilan produk itu daripada daun pegaga dan pandan membolehkan pasukan itu melakar kejayaan di Karnival Sains, Teknologi, Kejuruteraan dan Matematika (STEM) Kebangsaan 2018, baru-baru ini.

Pasukan yang terdiri daripada empat pelajar, Muhammad Khairul Naim Rosland, Muhammad Harith Syahmi Mohd Shafiei, Hasbe Zuliyana Hasbe Zuzaini dan Hanaa Daud, masing-masing berusia 16 tahun menang Johan Inovasi STEM Kategori Sekolah Menengah, sekali gus membawa pulang hadiah wang tunai RM1,800 dan sijil penghargaan.

Muhammad Khairul Naim



PASUKAN Sekolah Menengah Imtiaz Kuala Terengganu muncul Johan Kategori Inovasi (sekolah menengah) pada Karnival STEM, semalam.

yang juga ketua pasukan berkata, inovasi produk pegaga dan pandan itu dinamakan D'Panella mengambil masa dua tahun untuk dihasilkan, malah ia bermula ketika dia berada di tingkatan dua.

"Idea ini timbul selepas ramai rakan di asrama yang terkena *scabies*.

"Saya mengetahui daun pegaga baik untuk memulihkan luka dan mengubati penyakit gatal, jadi saya nekad membantu rakan pulih

daripada penyakit kulit.

"Sebelum itu, saya membuat tinjauan terhadap 800 responden dalam kalangan penduduk kampung sekitar dan pelajar dengan 70 peratus daripada mereka mengalami penyakit kulit.

"Kemudian saya mula membuat kajian mengenai khasiat daun pegaga dalam memulihkan penyakit kegatalan sehinggalah pasukan kami ditubuhkan pada Februari lalu untuk mengkomersialkan produk ini

demi manfaat pesakit," katanya.

Pelajar tingkatan empat itu berkata, daun pegaga atau nama saintifiknya *Centella Asiatica* mempunyai sifat sebagai antibakteria, antikulit dan antiradang, sekali gus sesuai menjadi agen penyembuhan penyakit kulit yang sangat berkesan.

"Ia boleh mempercepatkan pemulihan luka dengan merawat tisu yang rosak serta mengurangkan parut dan kita tahu masyarakat zaman dahulu hanya gunakan daun pegaga untuk awet muda dan merawat kegatalan.

"Bezanya mereka ambil pegaga dalam bentuk jus minuman tetapi golongan muda kini tidak gemar makan pegaga," katanya yang memberitahu produk dihasilkan dengan campuran daun pandan yang mengandungi unsur *alkaloids*, *acetyl* dan *pyroline* semula jadi untuk kesegaran serta wangi," katanya.

LAMPIRAN 12
NEW STRAITS TIMES (NEWS): MUKA SURAT 73
TARIKH: 29 NOVEMBER 2018 (KHAMIS)

NEXT MONTH

LYNAS TO HALT OPERATIONS TEMPORARILY

Govt allegedly did not allow it to increase production of lanthanide

KUANTAN

LYNAS Corporation Ltd (Lynas), which processes rare earths at its factory in the Gebeng Industrial Zone here, will temporarily halt operations next month.

The decision was taken at its

annual general meeting in Sydney, Australia, on Tuesday after its chief executive officer, Amanda Lacaze, allegedly told the meeting that Malaysia did not allow the corporation to increase the production of lanthanide.

However, Kuantan member of parliament Fuziah Salleh disputed this, saying that the Malaysian government had yet to make a decision on the factory's operations.

"I am not aware of any application from Lynas to increase the production of lanthanide at its factory here.



Fuziah Salleh

"If Lynas wants to shut down temporarily, that is their prerogative. Maybe to reduce costs or it is a marketing move to increase the margin of profit.

"Also, there are many public holidays in December in Australia where companies close their operations in conjunction with Christmas and the New Year," Fuzian said in a statement here yesterday.

She added that the main concern of Malaysians and the government was how the factory would dispose of more than a million tonnes of radioactive and toxic waste from the factory.

Bernama

LAMPIRAN 13
NEW STRAITS TIMES (BUSINESS): MUKA SURAT 23
TARIKH: 29 NOVEMBER 2018 (KHAMIS)

VIEW POINT

BIG DATA



MADANI
SAHARI

Blockchain technology as enabler to Industry 4.0 implementation

IN the new age of big data and cloud computing, the narrative for data management is rapidly changing — demanding a higher degree of transparency, independence and security. The age-old norms in regulating data transactions are continuously being challenged as the world moves towards innovation in economic thinking and approaches.

At the same time, we hear different forms of the word “social” attached to many aspects of our daily lives.

Not to be confused with socialism, the most common is social media — however, terms such as social enterprise, social learning and crowdfunding have begun to dominate the landscape as new innovations in the way business models are structured to deliver better products and services to the consumer.

The very essence of these new models is the increased participation of stakeholders throughout the process of governance of information, perception and deliverable standards of our daily activities, ranging from purchase decisions to financial transactions.

This means the governance of data, as massive as the scale can be, is starting to lean towards a high degree of social participation and administration. One such technology heavily discussed today is blockchain technology.

In a nutshell, blockchain technology is a digital ledger (called blocks) which is shared through peer-to-peer networks over the cloud. Using cryptography tech-



The key feature in a blockchain technology such as Bitcoin is the ‘decentralisation’ of ownership. REUTERS PIC

nology, these “blocks” cannot be contaminated, and users are able to update or store records of any value along the peer-to-peer network chain.

The key feature in this technology is the “decentralisation” of ownership, which differentiates blockchains from common data systems. This means there is no central authority owning these blocks of data, but rather is maintained by a community of peers to preserve the value and integrity of the said data.

Perhaps the most sensational and often controversial product based on blockchain technology is Bitcoin.

However, while governments and financial institution familiarise themselves with cryptocurrencies and decide a trustworthy solution to the Bitcoin mystery, the potentials offered by blockchain technology should not be ignored.

Naturally, the decentralisation of data is highly dependent on trustworthiness within the system. While we work forward towards reducing risks associated

with blockchain technology, it remains highly strategic to take first mover advantage in blockchain technology, particularly in areas within the automotive industry in which the rewards and benefits of blockchain technology outweigh the associated risks.

This week, the Malaysia Automotive Institute (MAI) signed a memorandum of agreement with Cryptovalley Malaysia, an independent organisation in Cyberjaya, to build Asia’s leading ecosystem for blockchain and cryptographic technologies in the country and the region.

This alignment will begin with the development of four immediate initiatives to benefit the consumers, entrepreneurs and the environment.

The first initiative would be the creation of digital identities to ensure genuine spare parts are properly circulated within the market, and conform to proper standards — ensuring safety and protection of consumer interests.

Secondly, blockchain technol-

ogy will be used to benefit taxi and ride-sharing markets in the area of security, transparency and dispute resolutions. Consumers stand to benefit through the wider driver networks and receive tokens through consumer-based recommendations.

Thirdly, the technology aims to create an aftersales ecosystem based on decentralised online ratings by end-users. These ratings enhance the customer experience through better-quality comparisons and rankings, through a user-driven database structure.

Fourthly, is the creation of unique carbon digital profiling for vehicles, allowing enhanced carbon footprint calculations through the application of blockchain technology to allow for accurate environmental policies, regulations and solutions.

These programmes will enable real-time monitoring, auditability and scalability for the aforementioned sectors in applications such as connected vehicles, cybersecurity, smart manufacturing and autonomous driving.

Most importantly, the above initiatives are designed to increase participation of Malaysians in the new age of Reputation Economics — spurring the development of social enterprises and a critical mass of cryptography experts within the Malaysian industry in line with the Industry 4.0 implementation.

The writer is the chief executive officer of Malaysia Automotive Institute.

MAI has signed an MoA with Cryptovalley Malaysia, an independent organisation in Cyberjaya, to build Asia’s leading ecosystem for blockchain and cryptographic technologies in the country and the region.

LAMPIRAN 14
THE STAR (EVENTS): MUKA SURAT 8
TARIKH: 29 NOVEMBER 2018 (KHAMIS)



Hee (front row, sixth from left) with some of the Plastic-free Campaign Award winners comprising local authorities and business operators in Selangor.

Show of thanks for going plastic-free

Demand for plastic bags in stores has decreased, says S'gor environment committee chairman

By EMIRA FARAHAZ
metro@thestar.com.my

A PLASTIC- and polystyrene-free campaign launched in Jan 1 last year for seven days has brought about a positive outcome as money collected from plastic bag requests in shops has immensely decreased.

Selangor Environment, Green Technology and Consumer Affairs Committee chairman Hee Loy Sian said the campaign aimed to increase awareness among Selangor residents on the long-term effects of using plastic bags and polystyrene.

"Apart from that, the campaign is also to

curb environmental and river pollution and also maintain Selangor's cleanliness," Hee said at a ceremony to give out the Plastic-free Campaign Award.

In a show of appreciation for their efforts and cooperation for going plastic-free, the state set aside RM7,000 for each local authority in Selangor.

The Selangor government also gave out appreciation certificates to all business operators who were committed to the campaign.

The certificates were given to business operators in the mall, supermarket, grocery store, food premises and international food chain categories.

"This Plastic-free Campaign Award is meant to appreciate and recognise local authorities and business operators that have given their commitment and cooperation to the campaign," Hee said.

With the launch of the plastic-free campaign, plastic bags are only given to customers upon request and each bag costs 20sen. "To those who always wondered where the 20sen paid for the plastic bags goes, the money goes to the Selangor government.

"We are still working on a mechanism to ease the process of collecting the money from local authorities.

"The system has been used by the Penang

government and it has received positive feedback," Hee added.

Starting 2019, the government will discourage the usage of straws and single-use plastic in Selangor.

"Restaurants will no longer serve drinks with straws unless requested by customers.

"We are also working on campaigns in schools, starting from primary school as we want to instil in students the importance of caring for the environment.

"We also want to spread the word to students about how important it is to stop or reduce the usage of single-use plastic bags in their daily life," said Hee.

LAMPIRAN 15
UTUSAN MALAYSIA (MEGA RONA): MUKA SURAT 26
TARIKH: 29 NOVEMBER 2018 (KHAMIS)



PENGUNJUNG tertarik dengan salah satu pameran sains yang ditampilkan pada *Lottie's Science Adventure* yang berlangsung di pusat beli-belah Lot 10, Kuala Lumpur.



KUMPULAN pelajar ini tekun mendengar penerangan mengenai uji kaji sains yang dijalankan sempena pameran *Lottie's Science Adventure*.

Bintang Hati

Oleh NOORHIDAYAH
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Pembelajaran sains cetus kreativiti

SAINS, Teknologi, Kejuruteraan dan Matematik (STEM) kerap dianggap sebagai pelajaran yang susah dan membosankan di dalam bilik darjah.

Namun, melalui teknik pembelajaran yang betul ia sebenarnya amat menyeronokkan apatah lagi lagi apabila membabitkan uji kaji dan eksperimen yang mengujakan apatah lagi jika dapat dilakukan di luar bilik darjah.

Menyedari hal itu Yayaasan YTL dengan kerjasama Petrosains menganjurkan *Lottie's Science Adventure* bagi

menggalakkan minat pelajar terhadap STEM.

Menurut Pengurus Program **Datin Kathleen Chew**, pada tahun ini, tema sains dipilih bagi menggalakkan minat pelajar dalam bidang sains menerusi pembelajarannya dan mempromosikan subjek STEM dalam kalangan pelajar yang berbeza-beza.

"Kami ingin pelajar tahu bahawa sains bukanlah perkara yang membosankan. Justeru, golongan yang mempunyai daya

kreatif dan minat mendalam tentang bidang sains dipanggil untuk berkongsi pengetahuan mereka dengan menjadikan sains lebih menyeronokkan dan menarik," katanya melancarkan *Lottie's Science Adventure* di pusat beli-belah Lot 10, Kuala Lumpur baru-baru ini.

Turut hadir, Naib Canselor Universiti Sabah Malaysia, Tan Sri Dr. Abu Hassan Othman.

Menurut Kathleen, pelajar di negara ini memiliki potensi yang besar untuk bersaing pada

peringkat dunia.

Namun katanya, mereka akan ketinggalan di belakang sekiranya tiada landasan yang betul diberikan, terutama dari segi pendedahan menyeluruh tentang sains berserta motivasi dan minat.

"Pameran pengembaraan sains ini bukan sahaja mengetengahkan tentang bidang sains, teknologi, matematik dan kreativiti kepada pelajar, guru serta ibu bapa, bahkan ia membuktikan bahawa ilmu

sains sebenarnya adalah cabang ilmu yang menarik untuk semua orang," katanya.

Sementara itu, sepanjang pameran tersebut pelbagai acara diadakan terutama yang membabitkan eksperimen dan uji kaji sains.

Bukan sahaja terdapat bengkel kayu dan bengkel sains, terdapat silang kata matematik yang menguji minda pelajar dan mesin yang berkebolehan membaca reaksi dan mengetahui koordinasi mata dan tangan.

LAMPIRAN 16
HARIAN METRO (IT@METRO): MUKA SURAT 50 & 51
TARIKH: 29 NOVEMBER 2018 (KHAMIS)

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3D BANTU PENDIDIKAN

Alang Hamid
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Pembelajaran di bilik darjah bukan saja sebagai alat bantuan mengajar tetapi penggunaan perkakasan untuk membekalkan peralatan di bengkel atau makmal sekolah. Berikutan program 3Duction dikeppan Telekom Malaysia ini mendapat perhatian pihak sekolah, industri dan universiti kerana impak positifnya yang mendalam. Program ini bukan saja dapat sokongan Kementerian Pendidikan, malah dianggarkan 'Program Pengayaan STEM' terbaik 2018' oleh MamaPapa Readers

Choice Award.
Larutan mengenai penggunaan pencetak dan konsep reka bentuk 3D dipaparkan di hampir 200 sekolah di seluruh negara. Seramai 6,000 pelajar sekolah rendah dan menengah menyertai program ini yang hasilnya pelbagai reka bentuk dan inovasi dapat dihasilkan. Guru dan pelajar juga boleh mengesan perisian 'TinkerCAD' perisian reka bentuk 3D secara 'online' dan percuma di sekolah masing-masing.

> 51

LEBIH MUDAH FAHAM SUBJEK

3Duction buka mata pelajar, guru konsep lebih segar

FOKUS IT
DARI MUKA 50

Sejak program 3Duction ini diperkenalkan, ia menghasilkan pelbagai produk yang boleh membantu pembelajaran selari dengan konsep 'hidup lebih mudah' diperkenalkan TM.

Anara produk yang dihasilkan yang memberi impak mendalam dalam pembelajaran sekolah termasuk SMK Bandar Baru Kg Buloh apabila guru dan pelajar berjaya menghasilkan 'Model Galas dan Azimut'.

Pelajar dapat memahami konsep Galas dan Azimut yang termasuk dalam subjek Geografi, Sains dan Matematik secara 3D. Menurut guru sains sekolah tersebut, jumlah Zakaria, pembelajaran melalui buku teks secara tradisional rumit diterangkan terutama

pelajar yang kurang memahami konsep 3D. Model Galas dan Azimut yang dihasilkan bukan saja dipakai di beberapa kelas di sekolah lain malah inovasi yang dihasilkan kini dirujuk untuk pembelajaran astronomi apabila peralatan pembelajaran dicetak melalui mesin 3D pada harga yang amat berpatutan.

Pembelajaran pencetakan 3D bukan sahaja selari dengan teknologi, kejuruteraan dan Matematik (STEM) tetapi konsep yang diperkenalkan melalui 3Duction beresutan dengan konsep animasi, bukan kejuruteraan dan pengkodan.

Beberapa sekolah lain juga membukakan kelas 3D Printing selepas mengikuti program 3Duction seperti Sekolah Menengah Kebangsaan Sungai Tiram, Johor apabila sekolah tersebut mempunyai pencetak 3D dan menghasilkan produk pencetakan 3D bagi menajua pendapatan sekolah serta membantu pembelajaran pelajar dari aspek kurikulum.

Menurut Pengasas Creative Minds Muhammad Shafiq Shahruil Amar yang juga ketua syarikat memperkenalkan konsep ini dengan kerjasama TM, pembelajaran pelajar dalam teknologi 3D di bangku sekolah membolehkan mereka dibekalkan dengan konsep reka bentuk dan pembangunan secara digital.

Isa selari dengan kebendakan industri dan membuka minat mereka dalam karier kejuruteraan.

Malah, pelbagai syarikat daripada pelbagai industri perniagaan, perubatan dan automotif kini beralih kepada teknologi pencetakan 3D bagi mengurangkan kos dan meningkatkan produktiviti.

Katanya, beliau berkeyakinan lebih ramai syarikat teknologi akan menyokong program yang baik ini sebagaimana sokongan padu daripada TM.

Sehingga kini, program 3Duction juga berjaya mengumpulkan 80 guru di seluruh Malaysia untuk sesi Hackathon 2018.

Sesi yang diadakan di MarIC Cyberjaya bersama pelbagai rakan kongsi dan beberapa wakil daripada pelbagai kementerian dan agensi tempatan untuk berfikir mengemuka haluan dan perkembangan teknologi pencetakan 3D di bilik darjah.

Ketika TM 3Duction Hackathon 2018 yang berlangsung baru-baru ini, ruangan pameran hasil seni dan mesin cetak 3D dipamerkan untuk tatapan umum.

Mesin cetak 3D pelbagai saiz sehingga sekecil pen juga ada dipromosikan selain mesin yang dijual dengan potongan harga sehingga 50 peratus.

TM 3Duction Hackathon 2018 menjadi inisiatif oleh TM dan Creative Minds bagi mempromosi dan memberi penerangan berkenaan 3D Modeling dan pencetakan kepada pendidik di seluruh Malaysia.

Program persidangan dua hari itu dirasmikan oleh Pengerusi Jawatankuasa

Pemeriksaan TVET Nurul Izzah Anwar dan diiringi Ketua Unit Pusat STEM Negara Dr Ihsan Ismail.

Acara menyaksikan penyertaan daripada guru sekolah, agensi, GLC, universiti dan syarikat teknologi tempatan yang terlibat secara langsung dalam penggunaan teknologi reka bentuk 3D dan pencetakan dalam sektor masing-masing.

Ia memberi satu platform perkongsian idea berkenaan pelaksanaan pendidikan 3D dalam sekolah dan mencari penyelesaian dalam tiga aspek iaitu pendidikan, persekitaran dan sosial.

PENGASAS 3Duction
Muhammad Shafiq
menunjukkan contoh
keperluan 3D kepada
Menteri Komunikasi dan
Multimedia
Gobind Singh.

PEMBELAJARAN
melalui 3D beri impak
kepada pelajar

LAMPIRAN 17
THE STAR (WORLD): MUKA SURAT 31
TARIKH: 29 NOVEMBER 2018 (KHAMIS)

Global warming outpacing efforts to slow it, says UN

PARIS: Humanity is falling further behind in the race against climate change, with the gap between greenhouse gas emissions and levels needed to achieve the Paris climate treaty temperature goals continuing to widen, the United Nations said.

With only 1°C of warming so far, the world has seen a crescendo of deadly wildfires, heatwaves and hurricanes.

On current trends, temperatures are on track to rise roughly 4°C by the century's end, a scenario that would tear at the fabric of civilisation, scientists say.

To cap global warming at 2°C, national carbon-cutting pledges annexed to the 2015 Paris Agreement must collectively triple by 2030, according to the UN Environment Programme's (Unep) Emissions Gap report.

To hold the rise in Earth's temperature to 1.5°C above the preindustrial benchmark, such efforts would have to increase fivefold.

"The emissions gap is much bigger than last year," Unep's Philip Drost, a coordinator for the annual report's ninth edition, said.

One obvious reason was a spike last year in the quantity of carbon dioxide, methane and other planet-warming gases escaping into the atmosphere.

This trend is set to continue this year, which saw a jump in CO₂ emissions from the energy sector, according to the International Energy Agency, as well as an increase in the atmospheric concentration of CO₂. — AFP

LAMPIRAN 18
KOSMO (DUNIA): MUKA SURAT 42
TARIKH: 29 NOVEMBER 2018 (KHAMIS)

Ribut sekali dalam 100 tahun badai Sydney

SYDNEY - Hujan lebat berserta angin kencang membadai bandar terbesar Australia, Sydney kelmarin, mengakibatkan kekalutan trafik, air membanjiri jalan dan kediaman, penerbangan dibatalkan serta banyak kediaman terputus bekalan elektrik.

Polis meminta pemilik kenderaan supaya tidak berada di jalan raya. Seorang mangsa terkorban dalam kemalangan kereta dan dua anggota polis parah dihempap sebatang pokok tumbang ketika mereka membantu seorang pemilik kenderaan yang terkandas.

Pengurus sebuah pejabat di utara Sydney, Greg Transell memberitahu Perbadanan Penyiaran Australia (ABC) bahawa angin kuat mengakibatkan kerosakan pada menara pejabat tempat dia bekerja.

"Saya naik ke tingkat atas untuk melihat sama ada terdapat kerosakan. Tiba-tiba, bunyi dentuman kuat kedengaran, manakala bahagian bumbung gudang tercabut," kata Transell.

Biro Meteorologi Australia (BOM) berkata, taburan hujan bersamaan sepanjang bulan November turun dalam masa beberapa jam pada hari kejadian.

"Hujan lebat seperti ini berlaku sekali dalam masa 100 tahun," kata pengurus BOM bagi negeri New South Wales, Ann Farrell.

Lapangan terbang Sydney menyatakan bahawa sebanyak 130 penerbangan telah ditangguh atau dibatalkan, manakala menjelang lewat tengah hari kelmarin, sejumlah 1,700 kediaman dan premis perniagaan terputus bekalan elektrik. - Reuters

LAMPIRAN 19
SINAR HARIAN (GLOBAL): MUKA SURAT 7
TARIKH: 29 NOVEMBER 2018 (KHAMIS)

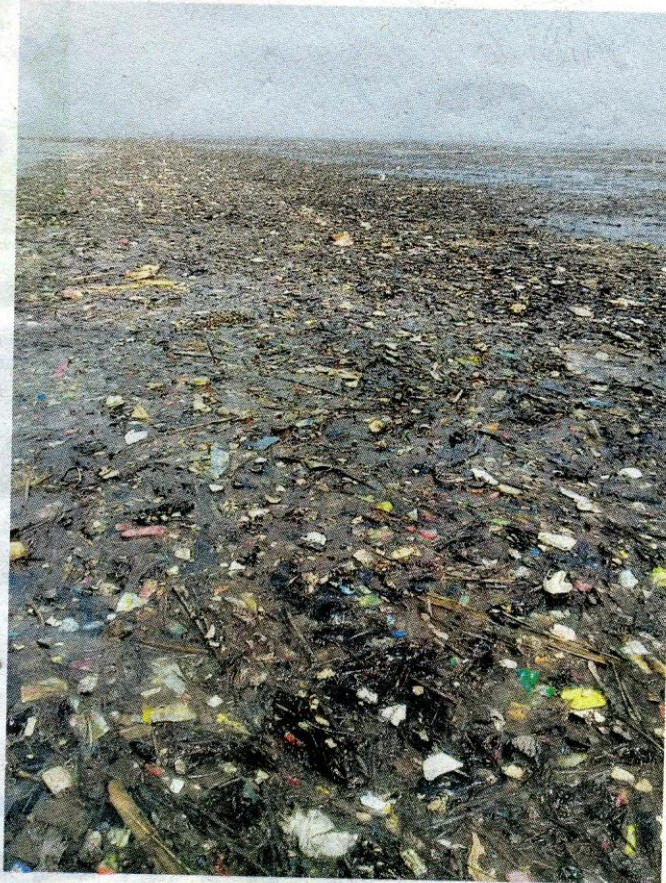
Plastik pembunuh penyu Pulau Pari

JAKARTA - Sampah plastik, minyak yang mencemari perairan Pulau Pari, Kepulauan Seribu menyebabkan kematian penyu yang menjadikan kawasan itu sebagai habitat mereka.

"Terdapat sekurang-kurang tiga ekor penyu yang telah mati," kata ketua Kelurahan Pulau Pari yang ditemui setelah selesai membersihkan sampah sarap di pantai pulau terbabit, Selasa lalu.

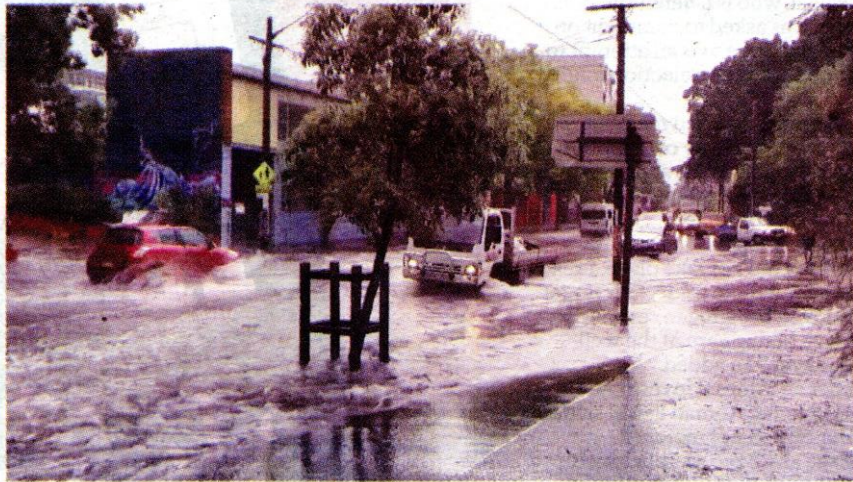
Beliau turut menerima video dari seorang penduduk tempatan bernama Imam yang mendapati bangkai seekor penyu yang dipercayai

Dikenali masyarakat setempat sebagai penyu sisik, ia kini terancam gara-gara lambakan sampah sarap termasuk botol plastik, pembungkus makanan, beg plastik dan sebagainya yang mengotori lautan di kawasan Kepulauan Seribu. - *Detikcom*



Sampah plastik dan minyak mencemari perairan Pulau Pari.
- FOTO Imam

LAMPIRAN 20
THE SUN (NEWS WITHOUT BORDERS): MUKA SURAT 08
TARIKH: 29 NOVEMBER 2018 (KHAMIS)



Vehicles drive on a flooded street in Sydney yesterday in this still image taken from a video obtained from @DeeCee451's Twitter account.

One in 100 year storm lashes Sydney

SYDNEY: Torrential rain and gale force winds lashed Australia's biggest city of Sydney yesterday causing commuter chaos, flooding streets, railway stations and homes, grounding flights and leaving hundreds of people without electricity.

One person was killed in a car crash and two police officers seriously injured when a tree fell on them as they helped a stranded motorist.

Greg Transell, an office manager in Sydney's north, told the Australian Broadcasting Corporation that strong winds caused widespread disruption to the tower block office where he works.

"I started to go upstairs to see if there was any damage and next minute there was an almighty bang and it ripped panels off the roof in the warehouse."

Australia's Bureau of Meteorology said within just a few hours Sydney got more than 100mm of rain, a level that the country's most populous city would normally get through the whole of November.

"That's the sort of rainfall you'd expect to see once every 100 years," Ann Farrell, the bureau's state manager, told reporters.

Sydney Airport, the country's busiest, said 130 flights had been cancelled or delayed after it was forced to close two of its three runways.

"The storm is pretty intense in and around the airport," Cait Kyann, an airport spokesman, told Reuters.

Ausgrid, the nation's biggest electricity network, said the storm had cut power to 8,100 customers in Sydney and the Central Coast area to its north.

There was chaos on Sydney's roads as the storm struck only hours before the main morning peak hour, transforming some streets into fast-flowing rivers and parks into lakes.

Several stranded motorists were plucked from rising floodwaters.

"We are asking all road users to reconsider the need to be on the roads throughout what will be a severe rain event," a police official said. - Reuters

LAMPIRAN 21
THE STAR (WORLD): MUKA SURAT 31
TARIKH: 29 NOVEMBER 2018 (KHAMIS)

Climate change devours ancient Lebanese cedar trees



Nurturing nature: A Jouzour Lubnan volunteer placing rocks next to a newly planted young cedar during a tree-planting initiative in the Jaj Cedar Reserve Forest in the Lebanon mountains. — AFP

TANNOURINE: High up in Lebanon's mountains, the lifeless grey trunks of dead cedar trees stand stark in the deep green forest, witnesses of the climate change that has ravaged them.

Often dubbed "Cedars of God", the tall evergreens hark back millennia and are a national icon in the small Mediterranean country.

But as temperatures rise and rain and snowfall decrease, Lebanon's graceful cedars are increasingly under attack by a tiny green grub that feeds off the youngest trees.

At a 1,800m altitude in the natural reserve of Tannourine in the north of Lebanon, ashen tree skeletons jut out of the forest near surviving cedars centuries old.

"It's as if a fire swept through the forest," said Nabil Nemer, a

Lebanese specialist in forest insects.

Huge cedar forests were once felled for their timber. Egyptian pharaohs used it to make boats and King Solomon allegedly used it to build his temple in Jerusalem.

But today's culprits lie underground, just centimetres below the tree trunk: bright green, wriggling larvae no larger than a grain of rice.

Since the late 1990s, infant cedar sawflies have eaten away at the forest in Tannourine and other natural reserves in northern Lebanon.

Cedar sawflies have been around for thousands of years. They mate in spring and lay their eggs on the cedar tree trunks, where grubs hatch and feast on cedar needles.

In the past, the larvae would then head back into the ground to hibernate for up to four years, before

emerging as winged adult sawflies.

But a warming earth has disrupted this cycle, especially in the Mediterranean where "climate change is more intense", said Wolfgang Cramer of the Mediterranean Experts on Environmental and Climate Change.

As scientists fight to prevent cedar deaths, the government is racing to replenish the country's forests. Since 2012, it has helped plant over two million new trees, agriculture ministry official Chadi Mohanna said.

Civil society is also playing a role. Since 2008, non-governmental group Jouzour Lubnan has put 300,000 new trees in the ground.

"Cedars have survived millions of years. They can take on climate change and adapt," said Jouzour co-founder Magda Bou Dagher Kharrat. — AFP

LAMPIRAN 22
MALAY MAIL (WORLD): MUKA SURAT 17
TARIKH: 29 NOVEMBER 2018 (KHAMIS)

Scientists 'breed' new corals on Great Barrier Reef

SYDNEY — Scientists have launched the largest-ever attempt to regenerate coral on the endangered Great Barrier Reef by harvesting millions of the creatures' eggs and sperm during their annual spawning.

The researchers said yesterday they plan to grow coral larvae from the harvested eggs and return these to areas of the reef which have been badly damaged by climate-related coral bleaching.

"This is the first time that the entire process of large scale larval rearing and settlement will be undertaken directly on reefs on the Great Barrier Reef," said Peter Harrison of Southern Cross University, one of the project leaders.

"Our team will be restoring hundreds of square metres with the goal of getting to square kilometres in the future, a scale not attempted previously," he said in a statement.

The "Larval Restoration Project" launch was timed to coincide with the annual coral spawn on the reef, which began earlier this week and will last only about 48 to 72 hours.

Coral along large swathes of the 2,300km reef have been killed by rising sea temperatures linked to climate change, leaving behind skeletal remains in a process known as coral bleaching.

The northern reaches of the reef suffered an unprecedented two successive years of

severe bleaching in 2016 and 2017, raising fears it may have suffered irreparable damage.

Harrison and his colleagues are hopeful their reseeded project can help reverse the trend, but he cautioned the effort will not be enough on its own to save the reef.

"Climate action is the only way to ensure coral reefs can survive into the future," he said.

"Our approach to reef restoration aims to buy time for coral populations to survive and evolve until emissions are capped and our climate stabilises."

The scientists hope that coral which have survived bleaching have a greater tolerance

to rising temperatures so that a breeding population produced from this year's spawn will grow into coral better able to survive future bleaching events.

The researchers, who also include experts from James Cook University and the University of Technology Sydney (UTS), said a novelty of their reseeded project was to grow coral larvae together with microscopic algae. The two live in symbiosis on the reef.

"So we are aiming to fast-track this process to see if the survival and early growth of juvenile corals can be boosted by rapid uptake of the algae," explained David Suggett of UTS. — AFP

LAMPIRAN 23
NEW STRAITS TIMES (WORLD): MUKA SURAT 78
TARIKH: 29 NOVEMBER 2018 (KHAMIS)

'CEDARS OF GOD'

Climate change devours Lebanon cedar trees

TANNOURINE (Lebanon): High up in Lebanon's mountains, the lifeless grey trunks of dead cedar trees stand stark in the deep green forest, witnesses of the climate change that has ravaged them.

Often dubbed "Cedars of God", the tall evergreens hark back millennia and are a source of great pride and a national icon in the small Mediterranean country.

The cedar tree, with its majestic horizontal branches, graces the nation's flag and its bank notes.

But as temperatures rise, and rain and snowfall decrease, Lebanon's graceful cedars are increasingly under attack by a tiny green grub that feed off the youngest trees.

At 1,800m altitude, in the natural reserve here in the north of Lebanon, ashen tree skeletons jut out of the forest near surviving cedars centuries old.

"It's as if a fire had swept

through the forest," says Nabil Nemer, a Lebanese specialist in forest insects.

In ancient times, huge cedar forests were felled for their timber. Egyptian pharaohs used the wood to make boats, and King Solomon is said to have used cedar to build his temple in Jerusalem.

But today's culprits lie underground, just several centimetres below the tree trunk: bright green, wriggling larvae no larger than a grain of rice.

Since the late 1990s, infant cedar sawflies have been eating away at the forest here, as well as several other natural reserves in northern Lebanon.

"Last year, 170 trees dried up completely and became dead wood," Nemer says.

Like their food of choice, cedar sawflies have been around for thousands of years.

They mate in spring and lay

their eggs on the cedar tree trunks, where grubs hatch and feast on cedar needles.

In the past, the larvae would then head back into the ground to hibernate for up to three or four years, before emerging again as adult sawflies with wings.

But a warming earth has disrupted this cycle, especially in the Mediterranean where "climate change is more intense", according to Wolfgang Cramer, a scientist and member of Mediterranean Experts on Environmental and Climate Change (MedECC).

In a November report, MedECC said future warming in the Mediterranean region was "expected to exceed global rates by 25 per cent".

As the ground becomes less cold and humid in winter, sawflies are now springing out of the earth every year, and in larger numbers.

Their preferred victims are



A young cedar laid in a cage and surrounded by stones for protection from snow and animals at the Jaj Cedar Reserve Forest in Lebanon. AFP PIC

young cedar trees, aged 20 to 100 years old.

Temperatures here have risen by 2°C in the past 30 years and there is less snow than before, Nemer says.

"With the drought, this larvae has been disturbed," he explains.

In 1999, the authorities managed to keep the pest in check by spraying insecticides from a helicopter.

But for the past four years, the cedar sawfly population has again been swelling.

With chemical pesticides now banned, park authorities have resorted to a more natural, though less efficient treatment: injecting a fungus into the ground to kill the sleeping grubs.

The authorities have backed the initiative so far, but it's a mammoth task that needs more funding, manpower and laboratories, Nemer says.

He says he hopes the state can increase its support, including by creating a nationwide authority to track "forest health." **AFP**

LAMPIRAN 24
NEW STRAITS TIMES (WORLD): MUKA SURAT 77
TARIKH: 29 NOVEMBER 2018 (KHAMIS)

LARGEST-EVER ATTEMPT

Scientists reseed corals on Great Barrier Reef

SYDNEY: Scientists have launched the largest-ever attempt to regenerate coral on the endangered Great Barrier Reef by harvesting millions of the creatures' eggs and sperm during their annual spawning.

The researchers said yesterday they plan to grow coral larvae from the harvested eggs and return these to areas of the reef which have been badly damaged by climate-related coral bleaching.

"This is the first time that the entire process of large-scale larval rearing and settlement will be undertaken directly on reefs on the Great Barrier Reef," said Peter Harrison of Southern Cross University, one of the project leaders.

"Our team will be restoring

hundreds of square meters with the goal of getting to square kilometres in the future, a scale not attempted previously," he said.

The "Larval Restoration Project" launch was timed to coincide with the annual coral spawn on the reef, which began earlier this week and will last only about 48 to 72 hours.

Coral on large swathes of the 2,300km reef have been killed by rising sea temperatures linked to climate change, leaving behind

skeletal remains in a process known as coral bleaching.

The northern reaches of the reef suffered an unprecedented two successive years of severe bleaching in 2016 and last year, raising fears it may have suffered irreparable damage.

Harrison and his colleagues are hopeful their reseeded project can help reverse the trend, but he cautioned the effort will not be enough on its own to save the reef.

"Climate action is the only way

to ensure coral reefs can survive into the future," he said.

"Our approach to reef restoration aims to buy time for coral populations to survive and evolve until our climate stabilises."

The scientists hope that coral which have survived bleaching have a greater tolerance to rising temperatures so that a breeding population produced from this year's spawn will grow into coral better able to survive future bleaching events. **AFP**



Coral on large swathes of the Great Barrier Reef in Australia have been killed by rising sea temperatures linked to climate change. REUTERS PIC

late September.

The award is expected to be formally presented to Kushner today by outgoing President Enrique Peña Nieto on the sidelines of the G20 summit of world leaders in Buenos Aires, Mexican newspaper *Reforma* reported on Tuesday, citing unidentified government sources.

The honour bestowed on Kushner was a trending topic on Twitter, where it appeared to be mostly criticised by Mexicans.

"Giving him the Aztec Eagle reflects a supreme attitude of humiliation and cowardice," Mexican historian Enrique Krauze wrote in one post, noting that Trump called Mexican migrants murderers and rapists during his 2016 presidential campaign.

Mexican actor Gael Garcia Bernal wrote that the decision to honour Kushner was "tremendously shameful".

Past Order of the Aztec Eagle honorees include Colombian Nobel literature laureate Gabriel Garcia Marquez and former South African President Nelson Mandela.

Mexican President-elect Andres Manuel Lopez Obrador will be inaugurated on Saturday after winning a landslide election victory in July. Kushner's wife, Ivanka Trump, is expected to attend the swearing-in along with other US officials, including Vice-President Mike Pence. **Reuters**

LAMPIRAN 25

HARIAN METRO (GLOBAL): MUKA SURAT 41

TARIKH: 29 NOVEMBER 2018 (KHAMIS)

Sekali dalam 100 tahun

■ Ribut luar biasa di Sydney cetus banjir kilat, paksa penerbangan dibatal

Reuters
Sydney

Ribut membawa hujan lebat dan angin kencang melanda bandar ini semalam mencetuskan gangguan pengangkutan, selain menyebabkan banjir di jalan raya, stesen kereta api dan rumah hingga memaksa penerbangan ditunda dan ribuan penduduk terputus bekalan elektrik.

Seorang pemandu maut selepas kenderaannya terbalik dalam kemalangan ketika ribut, manakala dua anggota

polis cedera parah apabila dihempap pokok ketika cuba membantu pemandu yang terkandas.

Seorang pengurus pejabat di sebelah utara Sydney, Greg Transell, memberitahu Perbadanan Penyiaran Australia (ABC), angin kencang mencetuskan keadaan kelam kabut di bahagian mana pejabat tempat dia bekerja.

"Saya cuba naik ke tingkat atas untuk melihat jika ada kerosakan apabila tiba-tiba ada bunyi hentikan kuat hingga menyebabkan bumbung sebuah gudang melambung ditiup



SEORANG pekerja membersihkan saluran air yang tersumbat ketika sebuah kenderaan melintasi jalan Railway Terrace di Lewisham, Sydney yang banjir. - EPA

angin," katanya.

Biro Meteorologi Australia (BOM) memberitahu, dalam tempoh beberapa jam Sydney dilanda lebih 100 milimeter hujan, keadaan yang biasanya berlaku sepanjang bulan November di bandar itu.

"Tahap hujan itu biasanya anda boleh lihat sekali dalam tempoh 100 tahun," kata pengurus biro negeri,

Ann Farrell, kepada wartawan.

Meskipun hujan itu memberi kelegaan kepada petani yang menghadapi kemarau sejak beberapa bulan lalu, cuaca itu memberi masalah besar hingga mengganggu rangkaian pengangkutan Sydney.

Pengurusan lapangan terbang Sydney, lokasi pusat pengangkutan paling sibuk

di negara itu berkata, 130 penerbangan dibatalkan atau ditunda selepas dua daripada tiga landasannya terpaksa ditutup.

"Ribut kali ini memang kuat melanda sekitar lapangan terbang. Kami beroperasi dengan satu landasan jadi memang ada penerbangan ditunda dan ada yang dibatalkan," kata jurucakap lapangan terbang,

Cait Kyann.

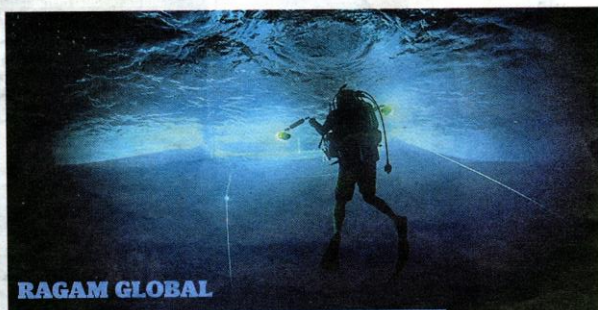
Sementara itu, pembekal elektrik terbesar, Ausgrid berkata, ribut yang melanda memutuskan bekalan bagi 8,100 pelanggan di Sydney dan kawasan Central Coast di sebelah utara.

Sehingga tengahari, sebanyak 1,700 kediaman dan premis perniagaan masih belum mendapat semula bekalan elektrik.

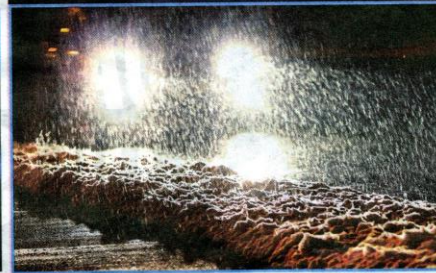


AKTIVIS alam sekitar, Greenpeace mengadakan demonstrasi di Seoul, Korea Selatan menggesa supaya kegiatan membiayai aktiviti perlombongan dihentikan. - EPA

ORANG ramai yang membuat bantahan terhadap kenaikan harga petrol dan kos sara hidup cuba melawan anggota polis di Pulau La Reunion di Lautan Hindi. - AFP



RAGAM GLOBAL



GAMBAR yang dikongsi oleh Universiti James Cook, menunjukkan seorang saintis melakukan projek membiakkan batu karang di Great Barrier Reef, Queensland, Australia. - AFP

SEBUAH kereta dipandu dalam salji tebal di Kaufbeuren, selatan Jerman. - AFP