

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

Bil	Berita	Media	Capaian Berita Penuh
1.	<u>Govt optimistic of achieving 20 pct RE over next seven years / Govt optimistic of meeting 20pc renewable energy target</u> To realise this target, Energy, Science, Technology, Environment and Climate Change Minister Yeo Bee Yin said the government would engage with industry players and study the relevant policies.	New Straits Times	Klik pada tajuk berita dan rujuk lampiran 1
2.	<u>Government optimistic of meeting 20pc renewable energy target over next seven years</u> To realise this target, Minister of Energy, Science, Technology, Environment and Climate Change Yeo Bee Yin said the government would engage with industry players and study the relevant policies.	Malay Mail	Klik pada tajuk berita
3.	<u>Govt policies to boost affordable solar energy</u> The government intends to provide sustainable, reliable and affordable solar energy for Malaysians through new policies beginning Jan 1, 2019, such as the New Net Energy Metering (NEM) Scheme and Supply Agreement for Renewable Energy (Sare), says Energy, Science, Technology, Environment and Climate Change Minister Yeo Bee Yin.	Daily Express	Klik pada tajuk berita
4.	<u>'It is what it is': Lynas navigates precarious political reality</u> Later on Tuesday in Malaysia, a review committee was due to submit its report on Lynas's local operations to the Science, Technology and Environment Minister, Yeo Bee Yin.	The Sydney Morning Herald	Klik pada tajuk berita

5.	<u>Lynas likely to get green light to stay — sources</u> Putrajaya is likely to give its blessing to the controversial rare earth separation plant, Lynas Advanced Materials Plant (LAMP), to remain in operation in Kuantan, Pahang, after the LAMP executive review committee presents its report to the government today.	The Edge Markets	Klik pada tajuk berita
6.	<u>Kerajaan yakin capai 20 peratus RE dalam tempoh tujuh tahun</u> Bagi merealisasikan sasaran itu, Menteri Tenaga, Sains, Teknologi, Alam Sekitar dan Perubahan Iklim, Yeo Bee Yin, berkata kerajaan akan berhubung dengan pemain industri dan mengkaji dasar yang berkaitan.	Berita Harian	Klik pada tajuk berita
7.	<u>Lynas timbang henti operasi sementara</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, hari ini.	Berita Harian	Klik pada tajuk berita
8.	<u>Gas asli bahan api utama kurangkan pelepasan karbon</u> Ia dirasmikan oleh Menteri Tenaga, Sains, Teknologi, Alam Sekitar dan Perubahan Iklim, Yeo Bee Yin, yang menyasarkan untuk membuka jalan ke arah masa depan Malaysia yang mampan.	Sinar Harian	Klik pada tajuk berita
9.	<u>MAI terap teknologi blockchain dalam industri automotif</u> Institut Automotif Malaysia (MAI) hari ini menandatangani memorandum perjanjian (MoA) bersama Cryptovalley Malaysia (CVM) bagi melaksanakan aplikasi teknologi blockchain dalam industri automotif negara agar sejajar dengan perkembangan Revolusi Perindustrian Keempat (Industri 4.0).	Utusan Malaysia	Klik pada tajuk berita

10.	<u>'Bantal' serap minyak</u> "Kami menghubungi Jabatan Alam Sekitar (JAS) untuk tindakan lanjut dan melakukan proses menghalang tumpahan daripada merebak menggunakan <i>absorbent pillow</i> bagi menyerap dan menyekat minyak di permukaan air," katanya.	Harian Metro	Klik pada tajuk berita
11.	<u>2 surau dicampak daging babi</u> Beliau berkata, daging terbabit dipercayai ketulan daging babi dicampak ke dalam kawasan surau dan akan menghantarnya ke Jabatan Kimia.	Berita Harian	Klik pada tajuk berita
12.	<u>'Only Clean Plastic Waste Imported'</u> The committee comprised the Housing and Local Government Ministry, the Energy, Science, Technology, Environment and Climate Change Ministry, the water, Land and Natural Resources Ministry and the International Trade and Industry Ministry.	New Straits Times	Rujuk lampiran 2
13.	<u>Cradle aims for 10% of grant recipients to become regional firms</u> Cradle Fund Sdn Bhd is targeting for 10% of its successfully groomed grant recipients to scale up and become regional players.	The Star	Rujuk lampiran 3

TEMPATAN

Bil	Berita	Media	Capaian Berita Penuh
14.	<u>Inovasi UPM bantu petani hapus ancaman siput gondang</u> Bagi mengatasi masalah tersebut, sekumpulan pakar pertanian dari Fakulti Pertanian, Universiti Putra Malaysia (UPM) yang diketuai Prof. Dr. Rita Muhamad Awang telah memformulasikan inovasi Sapputra Nanoemulsion bagi mengawal serangan siput gondang.	Sinar Harian	Klik pada tajuk berita
15.	<u>161, 610 anak penyu dilepaskan di perairan Cherating</u> Pengerusi Jawatankuasa Pertanian, Industri Asas Tani dan Bioteknologi Negeri Pahang, Datuk Seri Ir Mohd Soffi Abd Razak berkata, jumlah tersebut dilihat satu kejayaan yang membanggakan jika dibandingkan dengan bilangan telur penyu yang berjaya dikutip dan dieramkan.	Sinar Harian	Klik pada tajuk berita
16.	<u>Jadikan Olimpik 2020 papan loncatan tembusi pasaran halal Jepun</u> Sejumlah 38 syarikat Malaysia daripada pelbagai sektor termasuk makanan dan minuman, bioteknologi, penyelesaian perubatan dan kosmetik menyertai ekspo selama tiga hari itu yang bermula hari ini.	Berita Harian	Klik pada tajuk berita
17.	<u>Cryptovalley Malaysia Teams With Malaysia Automotive Institute On Blockchain</u> The Malaysia Automotive Institute (MAI) is teaming with Cryptovalley Malaysia (CVM) to apply blockchain technology in the automotive sector.	BlockTribune	Klik pada tajuk berita
18.	<u>Laksana teknologi Blockchain pertama untuk sektor automotif</u> CYBERJAYA: Institut Automotif Malaysia (MAI) hari ini menjalin usaha sama dengan	Berita Harian	Klik pada tajuk berita

	Cryptovalley Malaysia (CVM) bagi melaksanakan teknologi Blockchain pertama untuk sektor automotif tempatan.		
19.	<u>Keuntungan TNB susut RM3.9bil berbanding RM5.2bil pada tempoh sama tahun lepas</u> KUALA LUMPUR: Tenaga Nasional Berhad (TNB) hari ini mengumumkan keputusan kewangannya untuk sembilan bulan bagi tahun Kewangan 2018.	Astro Awani	Klik pada tajuk berita
20.	<u>Petronas tubuh perniagaan baharu</u> KUALA LUMPUR 27 Nov. - Petroliaam Nasional Bhd. (Petronas) dilaporkan telah menubuhkan sebuah perniagaan baharu dalam kumpulan itu dalam usahanya untuk memasuki segmen tenaga boleh diperbaharui (RE), kata Ketua Tenaga Baharu Petronas, Jay Mariyappan.	Utusan Malaysia	Klik pada tajuk berita
21.	<u>Petronas sets up team for renewable energy push</u> KUALA LUMPUR: State-owned oil and gas firm Petroliaam Nasional Berhad, or Petronas, has set up a new business within the group to make a push into renewable energy, the head of the new venture said yesterday	Free Malaysia Today	Klik pada tajuk berita
22.	<u>Malaysia's Petronas sets up team for renewable energy push</u> KUALA LUMPUR (Reuters) - Malaysian state-owned oil and gas firm Petroliaam Nasional Berhad, or Petronas, has set up a new business within the group to make a push into renewable energy, the head of the new venture said on Tuesday.	Reuters	Klik pada tajuk berita
23.	<u>Selangor akan import plastik bersih</u> Kerajaan Selangor hanya akan meneruskan pengimportan sisa plastik bersih dan berkualiti dari luar negara untuk diproses kilang berlesen di negeri ini.	Berita Harian	Klik pada tajuk berita
24.	<u>Kilang plastik boleh beroperasi</u>	Kosmo!	Klik pada tajuk berita dan rujuk lampiran

	Kerajaan negeri Selangor membenarkan operasi kilang memproses sisa plastik tetapi bersyarat hanya kepada sisa plastik yang bersih dan berkualiti.		4
25.	<u>Banning plastic waste import unfair to factories, says exco</u> Selangor has no intention of placing a ban on the import of plastic waste, despite mounting pollution concerns threatening the environment.	The Sun	Klik pada tajuk berita
26.	<u>Selangor to only import clean plastic waste, says exco</u> The Selangor state government will only import clean and quality plastic waste to be processed at licensed factories in the state.	New Straits Times	Klik pada tajuk berita
27.	<u>Enviro Hunt 2018 bawa imej pulihara alam sekitar</u> Worldwide Holdings Berhad bersama anak syarikatnya Worldwide Landfills Sdn Bhd terus komited melaksanakan program CSR terutama aspek pemuliharaan alam sekitar dengan menganjur WHB Enviro Hunt 2018 di Taman Rekreasi Worldwide Landfills Park, Air Hitam Puchong, Sabtu lalu.	Sinar Harian	Klik pada tajuk berita
28.	<u>Malaysia sebagai 'tong sampah' dunia?</u> Penyelidikan terkini Greenpeace Malaysia mendedahkan, negara ini telah menjadi tapak lambakan baru untuk kitar semula plastik dari lebih 19 buah negara, termasuk Amerika Syarikat, United Kingdom dan Australia.	Astro Awani	Klik pada tajuk berita
29.	<u>Time to put a tighter lid on plastic waste</u> Malaysia took in 754,000 tonnes of plastic waste from over 19 countries this year, with US, Japan and Britain billed as the highest exporters.	The Star	Klik pada tajuk berita dan rujuk lampiran 5
30.	<u>Malaysia chokes on plastic junk</u> The US, Japan and the UK are the three biggest plastic waste exporters to	Asean Economist	Klik pada tajuk berita

	Malaysia, accounting for 53 per cent of the 754,000 tonnes of junk imported from January to July.		
31.	<u>Greenpeace Malaysia: Country has become the world's rubbish bin</u> According to data from the National Solid Waste Management Department cited by Greenpeace Malaysia, the US is the highest plastic waste exporter.	The Star	Klik pada tajuk berita
32.	<u>Malaysia Has Become The World's 'Rubbish Bin' According To Greenpeace</u> A few months ago, the nation had a shocking revelation when it was exposed that Malaysia has been harbouring illegal recycling factories.	Rojak Daily	Klik pada tajuk berita
33.	<u>MP questions Lynas' efforts to clean up radioactive waste</u> Kuantan member of parliament Fuziah Salleh has questioned Lynas Corporation Ltd's efforts to clean up radioactive waste that could trigger major public health issues here.	New Straits Times	Rujuk lampiran 6
34.	<u>Belum putus isu loji proses nadir bumi</u> Kerajaan masih belum membuat keputusan mengenai logi pemprosesan nadir bumi Lynas.	Sinar Harian	Rujuk lampiran 7
35.	<u>Import sisa plastik</u> Import diteruskan kerana kilang proses sisa plastik diurus baik di Selangor.	Sinar Harian	Rujuk lampiran 8
35.	<u>TNB catat pendapatan RM37.85b</u> Tenaga Nasional Berhad (TNB) mencatatkan pendapatan stabil sebanyak RM37.85 bilion, manakala perbelanjaan operasi (OPEX) berjumlah RM32.24 bilion bagi keputusan kewangannya untuk sembilan bulan bagi tahun kewangan 2018.	Harian Metro	Rujuk lampiran 9
36.	<u>Prestasi 2018 TNB dijangka positif</u> Tenaga Nasional Berhad mencatatkan keuntungan selepas cukai (PAT) RM3.9 bilion	Utusan Malaysia	Rujuk lampiran 10

	bagi sembilan bulan berakhir 30 September lalu, lebih rendah berbanding RM5.18 bilion pada tempoh sama tahun sebelumnya.		
37.	<u>TNB raih keuntungan sembilan bulan RM3.9 bilion</u> Tenaga Nasional Berhad (TNB) mencatatkan keuntungan bersih RM3.9 bilion bagi sembilan bulan tahun kewangan 2018, berbanding RM5.18 bilion yang dicatatkan dalam tempoh sama tahun lalu.	Berita Harian	Rujuk lampiran 11
38.	<u>TNB Records Lower Q3 Profit</u> National utility says performance expected to remain positive for year ending Dec 31.	New Straits Times	Rujuk lampiran 12
39.	<u>Hanya undang-undang ubah mentaliti mundur</u> Di negara maju, tong sampah pun tidak ada. Hanya tong kitar semula. Kita sudahlah ada tong sampah, tong sampah pula tidak digunakan.	Kosmo!	Rujuk lampiran 13
40.	<u>Humanising Growth</u> A new compass has been put in place for the journey ahead, following the tabling of the 2019 Budget. It is all about humanising growth – putting humanity back at the heart of economic policies and articulating a greater purpose in economic development.	New Straits Times	Rujuk lampiran 14
41.	<u>TNB rekod pendapatan RM37.85 bilion</u> Tenaga Nasional Berhad (TNB) merekodkan pendapatan stabil sebanyak RM37.85 bilion bagi tempoh sembilan bulan pertama untuk tahun kewangan 2018.	Kosmo!	Rujuk lampiran 15
42.	<u>Sumbang panel PV untuk jana pendapatan</u> Tenaga Nasional Berhad (TNB) menyumbang panel solar photovoltaic (PV) bernilai RM278,000 kepada Montfort Boys Town bagi membantu institusi berkenaan menjana tenaga elektrik, seterusnya mendapat pulangan bagi membiayai operasinya.	Kosmo!	Rujuk lampiran 16

43.	<u>Projek abai alam sekitar undang bencana</u> Musim hujan tahun ini muncul lebih awal daripada biasa. Mulai Oktober lalu, hujan hampir setiap hari dan banyak kawasan dilanda banjir dan banjir kilat.	Berita Harian	Rujuk lampiran 17
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ANTARABANGSA

Bil	Berita	Media	Capaian Berita Penuh
44.	<u>UN: 75%-80% chance of El Nino in next 3 months</u> GENEVA: There is a 75% to 80% chance of a moderate El Nino event forming in the next three months, possibly impacting weather patterns in several regions, the UN said Tuesday.	Free Malaysia Today	Klik pada tajuk berita
45.	<u>Solar Power Developers Say Safeguard Duty Has Put Projects At Risk</u> India imports roughly 90 percent of the solar panels from Malaysia and China, which had helped developers quote record-low tariffs. Higher costs now threaten Prime Minister Narendra Modi's target of reaching 100 gigawatts of solar energy by 2022.	Bloomberg Quint	Klik pada tajuk berita
46.	<u>InSight Berjaya mendarat di Marikh</u> Pasadena – Sorakan gembira dan tepukan gemuruh bergema di Makmal Pendorongan Jet Agensi Pentadbiran Angkasa dan Aeronautik Kebangsaan (Nasa), kelmarin selepas kapal angkasa digelar InSight mendarat di planet Marikh, sekali gus menamatkan penantian selama tujuh tahun untuk merealisasikan misi itu.	Sinar Harian	Rujuk lampiran 18
47.	<u>Nasa lander touches down on Mars</u> Washington : Cheers and applause erupted at Nasa's Jet Propulsion Laboratory in Pasadena, California on Monday as a waist-high unmanned lander, called <i>InSight</i> , touched	The Sun	Rujuk lampiran 19

	down on Mars, capping a nearly seven-year journey from design to launch to landing.		
48.	<u>Gene editing ‘crazy’, say Chinese scientists</u> Shanghai: More than 100 scientists, most of them in China, have condemned as ‘crazy’ and unethical a geneticist’s claim that he altered the genes of twin girls born this month to create the first gene-edited babies.	New Straits Times	Rujuk lampiran 20
49.	<u>Mission to Mars a big success</u> Nasa’s spacecraft, designed to sense quakes and tremors, touched down on the Red Planet	The Star	Rujuk lampiran 21
50.	<u>Cheers as InSight lands on Mars</u> Pasadena: Cheers and applause erupted at Nasa’s Jet Propulsion Laboratory as a waist-high unmanned lander, called InSight, touched down on Mars, capping a nearly seven-year journey from design to launch to landing.	The Malay Mail	Rujuk lampiran 22
51.	<u>Nasa’s ‘InSight’ Lands on Red Planet</u> Touchdown marks eighth successful landing on Mars in Nasa history.	New Straits Times	Rujuk lampiran 23
52.	<u>Struktur tiang dalam laut sokong glasier daripada cair</u> Melihat pemanasan global yang semakin rakus, para saintis telah mencadangkan pembinaan struktur tiang gergasi di permukaan laut.	Kosmo!	Rujuk lampiran 24
53.	<u>Pokok tropika ‘larikan diri’ akibat perubahan iklim</u> Satu kajian antarabangsa yang diketuai oleh ahli biologi tropika di Universiti of Miami, Florida mendapati pokok tropika telah berhijrah untuk ‘melarikan diri’ daripada perubahan iklim.	Kosmo!	Rujuk lampiran 25

LAMPIRAN 1
NEW STRAITS TIMES (NATION): MUKA SURAT 12
TARIKH: 28 NOVEMBER 2018 (RABU)

IN 7 YEARS

Govt optimistic of meeting 20pc renewable energy target

KUALA LUMPUR: The government is optimistic of achieving its target of 20 per cent electricity generation from renewable energy (RE) sources, equivalent to 3,991 megawatts, over the next seven years via initiatives, programmes and policies.

To realise this target, Energy, Science, Technology, Environment and Climate Change Minister Yeo Bee Yin said the government would engage industry players and study relevant policies.

She said although the country's clean energy generation was only at two per cent, the target could be reached with the implementation of programmes, including net energy metering, feed-in-tariff and large-scale solar programmes.

She said this in her keynote address



Energy, Science, Technology, Environment and Climate Change Minister Yeo Bee Yin says the government will engage with industry players and study relevant policies to realise target. PIC BY ROSELA ISMAIL

at the 8th Energy Forum, jointly organised by the Energy Commission, Malaysian Gas Association and Energy Council of Malaysia here yesterday.

Yeo said the commitment and support from local and international companies in taking up the challenge to work with the government was vital to further develop RE and natural gas sectors, adding that the government intended to provide considerable support via energy efficiency policies.

She said the first draft of the Energy Efficiency and Conservation Act was expected to be presented in Parliament next year.

"Energy is something that Malaysians have taken for granted, given the country's abundant natural resources and the steady supply of electricity.

"Malaysia would be able to save up to RM46.9 billion in energy spending between 2016 and 2030, should all energy efficiency initiatives be fully implemented nationwide." **Bernama**

LAMPIRAN 2
NEW STRAITS TIMES (NEWS/NATION): MUKA SURAT 14
TARIKH: 28 NOVEMBER 2018 (RABU)

'ONLY CLEAN PLASTIC WASTE IMPORTED'

Selangor govt will allow only quality waste to be processed at licensed factories, says exco member

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THE Selangor government will import only clean and quality plastic waste to be processed at licensed factories in the state.

In announcing the move, state Environment, Green Technology and Consumer Affairs Committee chairman Hee Loy Sian said this was because some plastic waste recycling factories had made large investments in the industry.

"There are factories that recycle plastic waste and have invested a lot of money in machines, sophisticated systems, air filtering and water treatment.



Hee Loy Sian

"This won't be a problem. They, too, have a right, even though we have thought about making recycling factories illegal.

"If we stop all (operations), it would be unfair because millions of ringgit has been invested," he said during the Selangor Legislative Assembly sitting here yesterday.

Hee was replying to a question from Dr Idris Ahmad (PKR-Ijok) on whether the government had plans to cancel approved permits (APs) to import plastic waste.

Hee (PKR-Kajang) said the state government had halted the import of dirty plastic

waste that could negatively affect the people.

Last month, the Housing and Local Government Ministry announced it had

stopped the issuance of APs for plastic waste.

Its minister, Zuraida Kamaruddin, said the decision was made in a special committee meeting to prevent Malaysia from being used as a dumping ground for plastic materials.

The committee comprised the Housing and Local Government Ministry, the Energy, Science, Technology, Environment

and Climate Change Ministry, the Water, Land and Natural Resources Ministry and the International Trade and Industry Ministry.

It was reported that non-governmental organisations and academicians had urged the government to ban the importation of recyclable plastic waste to prevent negative effects on public health and the environment.

LAMPIRAN 3
THE STAR (NEWS): MUKA SURAT 5
TARIKH: 28 NOVEMBER 2018 (RABU)

Cradle aims for 10% of grant recipients to become regional firms

KUALA LUMPUR: Cradle Fund Sdn Bhd is targeting for 10% of its successfully groomed grant recipients to scale up and become regional players.

Acting chief executive officer Razif Abdul Aziz said since the company's inception 15 years ago, 932 entrepreneurs had benefited from its grants via the Cradle Investment Programme 300 (CIP300), CIP500, CIP Catalyst, Direct Equity 800 and Co-Investment schemes.

"Not all can be a unicorn for sure, but based on our impact study, 75% of our grant recipients have successfully transitioned into profitable small and medium-sized companies, with a small portion becoming big names in the country.

"So, we are targeting for 10% of them to strive and become regional players," he told *Bernama* on the sidelines of the Asean Angel Alliance Summit 2018, organised by the Malaysian Business Angel Network with Cradle Fund as the main sponsor.

A unicorn is a financial term, defined as a privately held startup company with a market value of over US\$1bil.

This year, Razif said the fund received a RM20mil allocation from the government to be disbursed in the form of grants and investments, and this had been fully utilised to help 31 startup companies and 14 investee companies.

He added that the fund received more than 700 applications annually for its grants, but only 5% of them were selected. — *Bernama*

LAMPIRAN 4
KOSMO! (NEGARA): MUKA SURAT 4
TARIKH: 28 NOVEMBER 2018 (RABU)

Dengan syarat hanya sisa plastik yang bersih dan berkualiti

Kilang plastik boleh beroperasi

Oleh AHMAD SHAHERMAN SHAMSURI

SHAH ALAM – Kerajaan negeri Selangor membenarkan operasi kilang memproses sisa plastik tetapi bersyarat hanya kepada sisa plastik yang bersih dan berkualiti.

Pengerusi Jawatankuasa Tetap Alam Sekitar, Teknologi Hijau dan Hal Ehwal Pengguna, Sains, Teknologi dan Inovasi Selangor, Hee Loy Sian berkata, keputusan itu dibuat berikutan terdapat kilang memproses sisa plastik yang sudah membuat pelaburan besar untuk industri itu.

"Ada pengusaha kilang yang benar-benar membuat proses kitar semula plastik dengan melaburkan wang yang ba-



LOY SIAN



KERATAN Kosmo! 1 Ogos 2018.

nyak untuk membeli mesin dan memasang sistem canggih seperti penapis udara serta merawat air bersih.

"Ini tidak memberi masalah. Jadi, mereka juga berhak walaupun kita ada memikirkan untuk mengharamkan semua kilang kitar semula ini," katanya pada sidang Dewan Undangan Negeri (DUN) Selangor di sini semalam.

Beliau berkata demikian ketika menjawab soalan tambahan **Dr. Idris Ahmad (PKR-**

Jelas Loy Sian, adalah tidak adil kepada pemilik dan pengusaha kilang tersebut sekiranya operasi mereka dihentikan selepas membuat kos pelaburan yang besar.

Pada 15 November lalu, Menteri Perumahan dan Kerajaan Tempatan, Zuraida Kamaruddin dalam sidang Dewan Rakyat turut menyatakan bahawa Kerajaan Persekutuan tidak bercadang untuk meminda Dasar Pengurusan Sisa Pepejal Negara bagi menghalang ke-masukan sisa plastik kerana industri tersebut mendatangkan

Ijok) meminta penjelasan berkenaan sejauh mana tindakan kerajaan negeri untuk membatalkan permit import (AP) sisa plastik.



ADA pengusaha kilang melaburkan wang yang banyak untuk membeli mesin dan memasang sistem canggih seperti penapis udara serta merawat air bersih. – Gambar hiasan

pendapatan sehingga RM30 billion kepada negara ini.

Bagaimanapun, Zuraida me-negaskan, kementeriannya

berstuju untuk memberikan jangka masa bagi mengurangkan kadar import seterusnya memproses plastik tempatan.

LAMPIRAN 5 THE STAR (NATION): MUKA SURAT 19 TARIKH: 28 NOVEMBER 2018 (RABU)

Time to put a tighter lid on plastic waste

By MEI MEI CHU
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KUALA LUMPUR: Malaysia took in 754,000 tonnes of plastic waste from over 19 countries this year, with US, Japan and Britain billed as the highest exporters.

Data from the Department of National Solid Waste Management showed that US is the nation's top plastic waste exporter, followed by Japan and Britain.

Together they account for 54% of plastic waste imports from January to July this year.

The following top exporters are Germany, Hong Kong, Australia, Belgium, Spain, Estonia and France.

Greenpeace Malaysia revealed this data in its *The Recycling Myth* report uncovering regulation violations in the plastic waste disposal following news surrounding illegal plastic waste recycling factories mushrooming in Jenjarom, Johor and Penang.

"Malaysia has become the world's rubbish bin," Greenpeace public and engagement campaigner Heng

Kiah Chun said during the launch of the report here yesterday.

Working with Kuala Langat Environmental Protection Association (KLEPA), Greenpeace Malaysia's investigation of plastic recycling factories in Kuala Langat found plastic waste from over 19 countries, including Saudi Arabia, Australia and Romania.

The report found that between January and July, Malaysia imported 754,000 metric tonnes of plastic – this is equivalent to approximately 100,000 large elephants.

The total value of the nation's plastic import is over RM483mil.

However, only 9% of this is clean plastic waste that can be recycled, said Greenpeace.

It said that based on global data, the remaining 12% of plastic waste are incinerated and 79% end up in landfills or dumped in the natural environment.

Housing and Local Government Minister Zuraida Kamaruddin had said in parliament that plastic waste processing business is a RM30bil industry that cannot be ignored.

Watch the video
thestartv.com



Kuala Langat residents, who are in the middle of the fight against over 40 illegal plastic recycling centres in the area, say this value comes at the cost of their health.

"We are the ones bearing the environmental risk of this plastic waste," said resident Pua Lay Peng.

"Even if we avoid the dumping grounds and install water filters, we cannot avoid the acid smell in the air," Pua said.

KLEPA president Tan Ching Hin said the illegal plastic recycling factories are producing solid waste while the water pollution has forced fish and prawn farms to stop operations.

He claimed that villagers are developing chronic respiratory diseases from the open burning of unrecyclable waste.

Tan also added that these factories, mostly illegal facilities owned by China companies, mainly



Caught in the act: Piles of plastic waste found at an illegal recycling factory and waste dumping site at Sungai Rambai in Jenjarom.

hire foreign workers.

He added that its environmental impact will reduce the value of property in the area as well as affect local businesses.

"It is shameful that we have become the dumping ground of the world," Tan added.

In its report, Greenpeace welcomes the government's decision to permanently ban the import of plastic waste but urge for stronger policies to also control the import of clean plastic waste.

"This is not a Malaysian problem, it is a global problem," Heng said.



At the dewan rakyat

Reports by MARTIN CARVALHO, HEMANANTHANI SIVANANDAM and TARRANCE TAN

LAMPIRAN 6
NEW STRAITS TIMES (NEWS): MUKA SURAT 9
TARIKH: 28 NOVEMBER 2018 (RABU)

MP questions Lynas' efforts to clean up radioactive waste



Fuziah Salleh

KUANTAN: Kuantan member of parliament Fuziah Salleh has questioned Lynas Corporation Ltd's efforts to clean up radioactive waste that could trigger major public health issues here.

Fuziah, who is deputy minister in the Prime Minister's Department, said Lynas had generated more than a million tonnes of radioactive waste and toxic substances, which the Australian government would not accept without a special licence.

"Why should the health of Malaysians be sacrificed when no other government would allow toxic waste from a foreign com-

pany be left in the way Lynas expects Malaysians to endure?"

Earlier yesterday, Lynas announced at its annual general meeting in Sydney that it would temporarily halt production at its Malaysian plant next month.

Lynas Corporation chief executive officer Amanda Lacaze said the Malaysian government had not approved its application to increase the production of lanthanide concentrate.

Fuziah said she was not aware of any application by Lynas to increase its ore processing.

"The government's Lynas ex-

ecutive review committee has not made a decision yet on the rare earth processing plant.

"If Lynas chooses to shut down temporarily, it is its prerogative to do so. There are many public holidays in Australia in December, and many companies shut down for Christmas and the New Year to save costs."

The factory began processing rare earth sent from Australia in 2012. Lynas' main products, neodymium and praseodymium, are used in magnets for motors that drive automated seats and windows in cars, and motors for hybrid vehicles, among others.

LAMPIRAN 7
SINAR HARIAN (SENTRAL): MUKA SURAT 20
TARIKH: 28 NOVEMBER 2018 (RABU)

Belum putus isu loji proses nadir bumi

KUANTAN - Kerajaan masih belum membuat keputusan mengenai loji pemprosesan nadir bumi Lynas.

Timbalan Menteri di Jabatan Perdana Menteri, Fuziah Salleh berkata, secara peribadi, beliau tidak menyedari sebarang permohonan Lynas untuk meningkatkan pengeluaran memprosesan itu melalui kilang di negara ini.

Menurutnya, bagaimanapun, ia menjadi perhatian apabila Lynas telah menghasilkan lebih daripada satu juta tan buangan yang tercemar dengan bahan radioaktif dan bahan toksik.

"Buangan ini sudah pasti Kerajaan Australia tidak akan menerima tanpa adanya lesen khas," katanya.

Fuziah dalam satu kenyataan semalam berkata, Mesyuarat Agung Tahunannya di Sydney hari ini memaklumkan bahawa kilang penapisan akan dihentikan operasinya buat sementara.

Jelasnya, Ketua Pegawai Eksekutif, Amanda Lacaze juga mendakwa



FUZIAH

kerajaan tidak meluluskan permohonan untuk meningkatkan pemprosesan lanthanide.

Tambahnya, mesyuarat tahunan itu sebenarnya bertepatan dengan pembentangan yang dijadualkan bagi laporan kajian semula

Operasi Malaysia oleh pasukan akademik yang ditugaskan untuk menjalankan tugas oleh kerajaan ini.

Dalam laporan akhbar baru-baru ini, memaklumkan bahawa negara China akan mengurangkan pengeluaran nadir bumi dengan ketara yang akan menghasilkan jumlah yang lebih rendah untuk eksport, selepas memenuhi peningkatan domestiknya permintaan.

Bulan lalu, Jepun Times menjangkakan harga bagi satu mineral nadir utama, Praseodymium Neodymium (PrNd) Oxide, boleh meningkat sebanyak 10 peratus hingga 50 peratus

dalam tempoh 12 bulan akan datang, dan berada di landasan un-

tuk menggandakan harga dalam tempoh lima tahun akan datang permintaan pasang surut.

Lynas adalah pengeluar utama bukan Cina dari PrNd oxide, oleh pengeluaran sementara buat sementara akan hampir pasti mencetuskan kenaikan harga lebih cepat.

Menyentuh perkara itu, Fuziah berkata, sekiranya Lynas memilih untuk menutup loji itu buat sementara waktu, ia adalah hak prerogatif untuk berbuat demikian, sama ada untuk menjimatkan kos pengeluaran atau untuk memberi respons kepada keadaan pasaran secara strategik bagi meningkatkan margin keuntungannya.

"Lagipun, Disember mempunyai banyak cuti umum di Australia dan banyak syarikat menutup tempoh Krismas dan Tahun Baru untuk menjimatkan kos," katanya.

Beliau juga meminta agar Lynas melakukan kerja-kerja pembersihan dari sisa berbahaya akibat aktiviti Lynas

"Pencemaran sisa berbahaya adalah kesihatan awam, kesihatan rakyat dikorbankan dengan membenarkan sisa toksik syarikat asing dibiarkan," katanya.

LAMPIRAN 8
SINAR HARIAN (SENTRAL): MUKA SURAT 20
TARIKH: 28 NOVEMBER 2018 (RABU)

Import sisa plastik

Import diteruskan kerana kilang proses sisa plastik diurus baik di Selangor

ASYRAF MUHAMMAD

SHAH ALAM

Kerajaan Selangor tidak akan menghentikan pengimportan plastik walaupun terdapat isu pembuangan sisa berkenaan dari negara luar ke negeri ini.

Exco Alam Sekitar, Teknologi Hijau, Hal Ehwal Pengguna dan Hal Ehwal Bukan Islam, Hee Loy Sian berkata, langkah ini berikutan terdapat kilang pemprosesan sisa plastik yang diimport telah diuruskan dengan baik di negeri ini.

"Ada kilang yang buat perniagaan yang betul dan mereka juga ada hak untuk dapatkan plastik ini untuk diproses.

"Kita kena tahu ada banyak kilang yang mengusaha dengan baik. Kalau kita katakan hentikan semua ini tak adil kepada mereka kerana mereka dah labur sejumlah wang

yang sangat besar, berjuta-juta," katanya ketika berucap di Sidang Dun semalam.

Beliau berkata demikian mengulas mengenai soalan tambahan daripada Adun PH-Ijok Dr Idris Ahmad yang bertanyakan bagaimana Selangor boleh mendapat plastik daripada negara luar dan apakah tindakan drastik yang dilakukan oleh kerajaan negeri seperti pembatalan permit import (AP).

Sebelum ini, portal berita luar negara, RadioNZ dalam satu laporan mendedahkan bahawa ribuan tan sisa plastik dari New Zealand dikatakan dibawa masuk ke negara ini selepas China mengharamkan import sisa plastik ke negara.

Laporan itu menyebut hampir 40 kilang haram yang beroperasi di Jenjarom, Kuala Langat membayar dan membuang air tercemar selepas mencuci sisa plastik sampah itu.

Mengulas lanjut, Loy Sian berkata pengeluaran AP itu telah dikeluarkan semasa zaman pemerintahan BN lagi dimana ketika itu mereka masih memegang kuasa sebagai



LOY SIAN

Kerajaan Persekutuan.

"Zaman pemerintahan BN mereka keluaran AP kepada pengusaha kilang import plastik, berlaku sebelum PRU14 di mana AP telah disalahgunakan," katanya.

Dalam pada itu, Loy Sian yang merupakan Adun Kajang turut menjelaskan bahawa

terdapat beberapa kategori plastik iaitu kotor, tidak berkualiti, bersih dan berkualiti.

"Kita hanya benarkan pada masa akan datang pengimportan plastik yang bersih dan berkualiti yang boleh buat kitar semula," katanya.

Di samping itu, Loy Sian turut menyatakan bahawa beliau tidak mempunyai jumlah bilangan kilang pemprosesan yang menguruskan sisa plastik di negeri ini.

Bagaimanapun, beliau berkata, di Kuala Langat terdapat 55 kilang kitar semula yang menguruskan sisa plastik dan daripada jumlah itu 33 daripadanya beroperasi secara haram, 17 secara sah dan lima lagi masih memerlukan pemulihan berikutan terletak di lokasi zon industri.

LAMPIRAN 9
HARIAN METRO (BISNES): MUKA SURAT 38
TARIKH: 28 NOVEMBER 2018 (RABU)

TNB catat pendapatan RM37.85b

Tenaga Nasional Bhd (TNB) mencatatkan pendapatan stabil sebanyak RM37.85 bilion, manakala perbelanjaan operasi (OPEX) berjumlah RM32.24 bilion bagi keputusan kewangannya untuk sembilan bulan bagi tahun kewangan 2018.

Keuntungan Kumpulan selepas Cukai atau PAT pula direkodkan rendah pada RM3.90 bilion, berbanding RM5.18 bilion bagi tempoh yang sama sebelumnya.

Presiden dan Ketua Pegawai Eksekutif TNB, Datuk Seri Azman Mohd berkata, bagi tahun kewangan 2018, pihaknya merekodkan pencapaian cemerlang dengan skor 8.1 bagi Indeks Kepuasan Pelanggan (CSI) iaitu di kuartil teratas dalam industri.

"Kami sedar, meningkatkan skor ini memerlukan kami konsisten dalam meningkatkan perkhidmatan kepada pelanggan.

"Tambahan pula, baru-baru ini TNB telah menduduki tempat ke-4 di dunia dalam Laporan Menjalankan Perniagaan Bank Dunia 2019 bagi kemudahan untuk mendapatkan



AZMAN Mohd

bekalan elektrik," katanya.

"Kami juga berjaya mencatat prestasi teknikal yang tinggi dengan 0.3 minit Sistem Minit Penghantaran, yang mengukur jumlah setara gangguan bekalan bagi sistem di Semenanjung Malaysia," katanya dalam kenyataan dikeluarkan.

Beliau berkata, dengan mengekalkan pencapaian Sistem Minit Penghantaran di bawah paras dua minit sejak Tahun Kewangan 2009 dan Indeks Purata Tempoh Gangguan Sistem (SAIDI) sekitar 50 hingga 60 minit sejak Tahun Kewangan 2014, prestasi teknikal TNB secara konsisten setanding negara maju.

LAMPIRAN 10
UTUSAN MALAYSIA (BISNES): MUKA SURAT 38
TARIKH: 28 NOVEMBER 2018 (RABU)

Prestasi 2018 TNB dijangka positif

Oleh AKMYR SYAHAR AZWAR
ekonomi@utusan.com.my

■ KUALA LUMPUR 27 NOV.

TENAGA Nasional Berhad (TNB) mencatatkan keuntungan selepas cukai (PAT) RM3.9 bilion bagi sembilan bulan berakhir 30 September lalu, lebih rendah berbanding RM5.18 bilion pada tempoh sama tahun sebelumnya.

Kumpulan itu merekodkan keuntungan sebelum cukai, faedah, susut nilai dan pelunasan (EBITDA) pada RM10.89 bilion, dengan margin EBITDA pada 28.8 peratus. TNB mencatat pendapatan stabil RM37.85 bilion manakala perbelanjaan operasi (OPEX) pada RM32.24 bilion.

Bagaimanapun, prestasi kumpulan bagi tahun berakhir 31 Disember 2018 dijangka kekal positif.

Presiden dan Ketua Pegawai Eksekutif TNB, Datuk Seri Ir. Azman Mohd. berkata, bagi tahun kewangan 2018, TNB mencatat pencapaian cemerlang dengan skor 8.1 bagi Indeks Kepuasan Pelanggan (CSI), iaitu di tempat teratas

dalam industri.

"Kami sedar, untuk meningkatkan skor ini memerlukan konsisten dalam meningkatkan perkhidmatan kepada pelanggan. Tambahan pula, baru-baru ini, TNB menduduki tempat keempat di dunia dalam Laporan Menjalankan Perniagaan Bank Dunia 2019 bagi kemudahan untuk mendapatkan bekalan elektrik.

"Pengiktirafan ini diberikan dengan mengukir prosedur, masa dan kos yang diperlukan perniagaan untuk mendapatkan penyambungan elektrik kekal, bekalan berdaya harap dan indeks tarif yang telus," katanya dalam kenyataan di sini hari ini.

Menurut beliau, TNB juga berjaya mencatat prestasi teknikal yang tinggi dengan 0.3 minit Sistem Minit Penghantaran, yang mengukur jumlah setara gangguan bekalan bagi sistem di Semenanjung.



IR. AZMAN MOHD.

"Bagi pembahagian pula, Indeks Purata Tempoh Gangguan Sistem (SAIDI) yang mengukur tempoh purata gangguan bekalan dialami oleh pelanggan dalam setahun, kekal stabil pada 35.3 minit.

Prestasi teknikal konsisten ini setanding dengan negara maju seperti Perancis dan United Kingdom," katanya.

Dalam pada itu, Pengerusi TNB, Tan Sri Leo Mogie berkata, dalam menguruskan perniagaan, TNB sentiasa mengambil berat tentang kehidupan masyarakat sekeliling dan mencari jalan mensejahterakan lagi kehidupan para pelanggan.

"Dalam konteks ini, TNB berjaya menyempurnakan pemasangan lebih 21,000 lampu jalan luar bandar, iaitu hampir 90 peratus pencapaian tahunan, di bawah Projek Lampu Jalan Kampung. Kami percaya bahawa usaha ini bukan sahaja mencerahkan



kawasan luar bandar, bahkan menyumbang kepada ciri-ciri keselamatan yang sekali gus meningkatkan kualiti kehidupan masyarakat.

"TNB percaya bahawa masa depan yang cerah adalah masa depan yang mapan. Bagi menyokong agenda hijau kerajaan yang selaras dengan Dasar Tenaga Hijau TNB, kami komited dalam meminimumkan impak terhadap alam sekitar dengan mengamalkan operasi yang mapan dan efisien serta melaksanakan inisiatif tenaga hijau.

"Di samping itu, anak syarikat memaklumkan bahawa Ladang Solar Skala Besar 50 megawatt (mW), diusahakan oleh TNB Sepang Solar, telah mencapai Tarikh Operasi Komersial (COD) pada 19 November 2018.

"Anak syarikat kami iaitu GSPARX Sdn. Bhd. pula sudah memulakan perniagaan tenaga solar fotovoltaik, untuk menyerlahkan potensi tenaga boleh baharu tempatan dengan menawarkan penyelesaian tenaga hijau kepada pelanggan runcit," katanya.

LAMPIRAN 11
BERITA HARIAN (BISNES): MUKA SURAT 23
TARIKH: 28 NOVEMBER 2018 (RABU)

TNB raih untung sembilan bulan RM3.9 bilion

Tenaga Nasional Bhd (TNB) mencatatkan keuntungan bersih RM3.9 bilion bagi sembilan bulan tahun kewangan 2018, berbanding RM5.18 bilion yang dicatatkan dalam tempoh sama tahun lalu.

Kumpulan mencatatkan pendapatan stabil pada RM37.85 bilion, manakala perbelanjaan operasi (OPEX) berjumlah RM32.24 bilion.

Perolehan Sebelum Faedah, Cukai, Susut Nilai dan Amortisasi (EBITDA) kumpulan bagi tempoh dikaji adalah RM10.89 bilion, dengan margin EBITDA pada 28.8 peratus.

Presiden dan Ketua Pegawai Eksekutifnya, Datuk Seri Ir Azman Mohd, berkata kumpulan mencatatkan pencapaian cemerlang bagi tahun kewangan 2018 dengan skor 8.1 bagi Indeks Kepuasan Pelanggan (CSI), iaitu pada peringkat teratas dalam industri.

"Kami sedar, meningkatkan skor ini memerlukan kami konsisten dalam meningkatkan perkhidmatan kepada pelanggan.

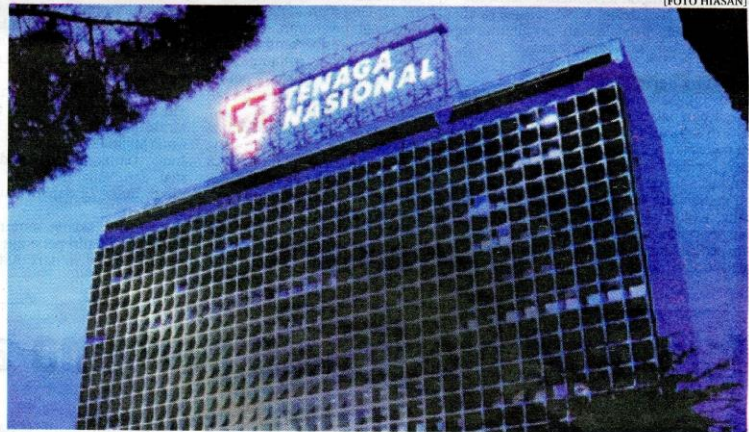
"Tambahan pula, baru-baru ini TNB menduduki tempat ke-4 di dunia dalam Laporan Menjalankan Perniagaan Bank Dunia 2019 bagi kemudahan untuk mendapatkan bekalan elektrik," katanya dalam satu kenyataan di Kuala Lumpur, semalam.

Prestasi teknikal

Azman berkata, kumpulan juga berjaya mencatat prestasi teknikal yang tinggi dengan 0.3 minit Sistem Minit Penghantaran, yang mengukur jumlah setara gangguan bekalan bagi sistem di Semenanjung Malaysia.

"Bagi Pembahagian pula, Indeks Purata Tempoh Gangguan Sistem (SAIDI) yang mengukur tempoh purata gangguan bekalan dialami oleh pelanggan dalam setahun, kekal stabil pada 35.3 minit," katanya.

Selain itu katanya, dengan mengekalkan pencapaian Sistem Minit Penghantaran di bawah paras dua minit sejak Tahun Kewangan 2009 dan SAIDI sekitar 50 hingga 60



[FOTO HIASAN]

Pencapaian cemerlang bagi tahun kewangan 2018 TNB pada peringkat teratas dalam industri.



Azman Mohd

minit sejak tahun kewangan 2014, prestasi teknikalnya secara konsisten setanding dengan negara maju seperti Perancis dan United Kingdom.

Tingkat kualiti hidup

Sementara itu, Pengerusi TNB, Tan Sri Leo Moggie, berkata kumpulan sentiasa mengambil berat mengenai keperluan masyarakat, sekaligus meningkatkan kualiti kehidupan masyarakat.

"Setakat ini TNB berjaya menyempurnakan pemasangan lebih 21,000 lampu jalan luar bandar,

iaitu hampir 90 peratus pencapaian tahunan, di bawah Projek Lampu Jalan Kampung.

"Bagi menyokong agenda hijau kerajaan yang selaras dengan Dasar Tenaga Hijau TNB, kami komited dalam meminimumkan impak terhadap alam sekitar dengan mengamalkan operasi yang mampan dan efisien serta melaksanakan inisiatif tenaga hijau," katanya.

Menerusi kenyataan sama, TNB juga yakin prestasi kumpulan bagi tahun berakhir 31 Disember 2018, dijangka kekal positif.

LAMPIRAN 12
NEW STRAITS TIMES (BUSINESS / NEWS): MUKA SURAT 20
TARIKH: 28 NOVEMBER 2018 (RABU)

TNB RECORDS LOWER Q3 PROFIT

National utility says performance expected to remain positive for year ending Dec 31

KUALA LUMPUR

TENAGA Nasional Bhd (TNB) posted a RM501 million net profit in the third quarter ended September 30 on the back of RM13.08 billion revenue.

The group reported lower operating profit of RM1.47 billion in the current quarter compared with RM2.01 billion in the preceding quarter, mainly due to higher operating expenses (opex) of RM32.24 billion.

TNB said in a statement the net profit in the current quarter was a decrease of RM736.3 million, or 59.5 per cent, from the RM1.24 billion recorded in the preceding quarter. This was mainly attributed to higher opex and loss in share of associates in the current quarter.

No dividend was recommended or paid during the quarter.

TNB's net profit for the nine-month period stood at RM3.86 billion compared with RM5.18 billion a year ago. Revenue was RM37.85 billion.

TNB said in light of the global headwinds, Malaysia had lowered the projected gross domestic product growth to 4.8 per cent this year.

"Despite the aforementioned scenarios, the performance of the group is expected to remain positive for the year ending December 31," it added.

TNB president and chief executive officer Datuk Seri Azman Mohd said for the 2018 financial year, the group had recorded an outstanding achievement in the Customer Satisfaction Index with a 8.1 score.

"We understand that increasing the score will require us to consistently improve our services. Furthermore, TNB was also



Tenaga Nasional Bhd is ranked fourth by the World Bank's Doing Business 2019 report in the ease of getting electricity.

recently ranked fourth by the World Bank's Doing Business 2019 report in the ease of getting electricity.

"This recognition measures the procedures, time and cost required for a business to obtain a

permanent electricity connection, reliability of supply and transparency of tariffs index."

Azman said the group also recorded superior technical performance, with transmission system minutes of 0.3 minute.

He said the TNB System Average Interruption Duration Index, which measures the average duration of power interruption experienced by a customer in a year, remained stable at 35.3 minutes.

LAMPIRAN 13

KOSMO! (NEGARA): MUKA SURAT 11

TARIKH: 28 NOVEMBER 2018 (RABU)

Hanya undang-undang ubah mentaliti mundur

PENULIS masih ingat, sewaktu di bangku sekolah dahulu, antara aktiviti yang sering dilakukan selepas perhimpunan pada pagi hari Isnin ialah mengutip sampah.

Sampah-sampah yang 'bertaburan' di sekeliling sekolah dipungut dan dimasukkan ke dalam tong sampah. Apabila sudah tiada sampah seperti botol-botol, kotak minuman, pembungkus gula-gula, daun-daun kering pun dipungut kerana semakin seronok mengutip sampah.

Sering kali juga pada zaman itu, mengutip sampah atau mencuci tandas merupakan antara denda yang lazim dan popular di sekolah. Penulis kurang pasti pula kalau zaman sekarang ini denda sebegitu tidak dibenarkan, maklumlah, penulis sudah lama tinggalkan zaman sekolah yang 'buli' dan 'hukuman' boleh dibezakan masyarakat.

Kempen-kempen seperti Jangan buang Sampah Merata-rata, *No Littering* atau label 'Gunakan Saya' pada tong sampah juga boleh dilihat di sekeliling sekolah. Nampaknya rata-rata rakyat Malaysia telah dididik untuk membuang sampah ke dalam tong sampah sejak zaman kanak-kanak lagi. Bukannya mereka tidak pernah diajar.

Namun ironinya, baru-baru ini satu fakta mengejutkan telah dikongsikan di Dewan Rakyat berhubung tabiat membuang sampah apabila lebih separuh rakyat Malaysia didapati tidak pandai buang sampah. Didapati hampir 60 peratus rakyat di negara ini masih belum mampu membuang sampah dengan betul ke dalam tong sampah.

Perkara itu didedahkan Menteri Perumahan dan Kerajaan Tempatan (KPKT), Zuraida Kamaruddin yang berkata, pihaknya akan memfokus kepada cara pembuangan sampah dengan betul bagi menangani isu pengurusan sampah seluruh negara.

"Budaya buang sampah ke dalam tong sampah masih gagal diamalkan oleh rakyat negara ini dengan hampir 60 peratus bilangannya. Ini tidak termasuk kebolehan



Di Sebalik
Isu Panas

Oleh ADHAM SHADAN

"Di negara maju, tong sampah pun tidak ada. Hanya ada tong kitar semula. Kita sudahlah ada tong sampah, tong sampah pula tidak digunakan

rakyat dalam mengasingkan sampah," katanya di Dewan Rakyat baru-baru ini.

Aktivist alam sekitar, Andrew Sebastian berkata, sudah tiba masanya untuk menggunakan kuasa undang-undang bagi mengatasi masalah pembuangan sampah merata-rata.

Sebastian yang merupakan Ketua Pegawai Eksekutif Persatuan Ekopelancongan dan Konservasi Malaysia berkata, ini berkaitan dengan mentaliti ambil mudah dan sikap sambil lewa rakyat.

"Telah terlalu banyak peluang diberikan, sudah terlalu banyak kempen yang diwujudkan, kempen gunakan tong sampah, kitar semula, galakan amalan gotong-royong dan sebagainya.

"Tetapi gejala buang sampah ke dalam longkang, membuang sampah keluar dari kereta tetap menyerlah. Ini bukan masalah kesedaran lagi, rakyat tahu membuang sampah tidak ke dalam tong sampah itu salah.

"Sikap negatif itu perlu diubah dan sikap itu hanya boleh diubah dengan tatacara undang-undang dan pemantauan seperti di Singapura. Mereka yang mem-

buang sampah merata-rata perlu dikenakan denda atau saman," katanya ketika dihubungi.

Menurutnya masalah pembuangan sampah merata-rata tidak berlaku di negara maju.

"Di negara maju, tong sampah pun tidak ada. Hanya ada tong kitar semula. Kita sudahlah ada tong sampah, tong sampah pula tidak digunakan," katanya.

Presiden Pertubuhan Pembangunan Penduduk Malaysia, Dr. Fatimah Daud bersejua masalah itu perlu diatasi dengan kuasa undang-undang memandangkan sikap ambil mudah ini sudah sebat dalam budaya masyarakat terutamanya kaum Melayu.

"Tbu bapa sendiri pun tidak menunjukkan contoh yang baik kepada anak-anak. Kalau di kampung, budaya buang sampah di tangga atau dari jendela sudah lama dilakukan.

"Membuang sampah merata-rata itu seperti hobi. Ini adalah masalah sikap dan mentaliti mundur yang hanya boleh diatasi dengan penguatkuasaan atau denda.

"Mungkin ada orang yang kata sikit-sikit denda, adakah kita ingin menjadi negara ketenteraan? Tapi itulah saja yang membolehkan mendisiplinkan masyarakat demi kebersihan persekitaran," katanya.

Mengambil contoh sikap rakyat di Britain, tidak kira di mana-mana sekiranya mereka mempunyai sampah, menjadi amalan memasukkannya ke dalam beg tangan bagi perempuan atau poket bagi lelaki sementara menjumpai tong.



KEHEBATAN SEKEPING FOTO

PEMANDANGAN bulan penuh dirakam menyinari langit malam di Bandar Raya Panama, Panama baru-baru ini.

LAMPIRAN 14
NEW STRAITS TIMES (LETTERS): MUKA SURAT 18
TARIKH: 28 NOVEMBER 2018 (RABU)

2019 BUDGET

HUMANISING GROWTH

A NEW compass has been put in place for the journey ahead, following the tabling of the 2019 Budget. It is all about humanising growth – putting humanity back at the heart of economic policies and articulating a greater purpose in economic development.

Together with the tabling of the Mid-Term Review of the 11th Malaysia Plan last month, it appears that the right alchemy and thinking has been formulated for the economic challenges of the 21st century.

Economics should not be seen as an endeavour of managing scarcity or tracing the laws that govern the market and industry, but more critically, it must have clear purposes and goals.

In the context of Malaysia, it means the government must ensure that all Malaysians reap the benefit of economic growth. Their purchasing power would be significantly improved through addressing the high cost of living and increasing income levels; wealth and income gaps would be reduced; and an increase in economic opportunities through new job creation.

The sorry state of society, as

evident in the State of Households 2018 report published by the Khazanah Research Institute recently, would be addressed, particularly the gap between the haves and have-nots.

Although it takes time to effectively address this issue, there are commendable measures in the Budget, such as the focus on invigorating the spirit of entrepreneurship, revamping the education system, improving social wellbeing and prioritising the small- and medium-sized enterprises.

Humanising growth also means that efforts to improve gross domestic product (GDP) must be sustainable. Hence the focus on renewable energy and challenges of the Fourth Industrial Revolution (4IR) in the Budget is a step in the right direction.

As for the green agenda, the time is ripe for electricity generation based on solar energy. This must be the new normal for Malaysia. The third national car project, for example, can adopt the electric car technology, or else it would be better to invest more to improve public transportation.

The government must emphasise 4IR in its future budget



In the Fourth Industrial Revolution, the education system will include more subjects that focus on artificial intelligence, big data and the Internet of Things. FILE PIC

planning. This is crucial in the aspect of education.

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. More needs to be done to strengthen subjects which are deemed less important such as literature, history, philosophy, and the arts, and put them on a par with "hard" subjects such as science and mathematics.

It is a lost cause to compete with the mighty algorithms in the future, where many of the human professions involving high IQ would likely be replaced by robots and AI, such as specialist doctors.

We would be confronted by existential and ontological questions as robots and technology

flood, not just our external life, but also internally – the body and mind – in the form of cyborg engineering, biological engineering, and engineering of inorganic life.

Our political and philosophical underpinnings, which have glued us as a society, may be irrelevant as we encounter a different reality. In this scenario, we need more philosophers, poets, culturists, artists and historians than scientists. Thus our education system must be prepared for these 21st-century challenges.

I'm relieved that this is not an austerity budget. Although new taxes were introduced, the impact on people's pockets appears to be minimal.

The GDP target has been revised downward, but this is in line with regional and global growth rates. What's more, the gloomy

outlook of the world economy and trade next year explains the lower-than-expected growth trajectory.

The government should be less concerned about trimming the deficit and focus more on stimulating the economy by providing consumers and businesses more money to spend.

The plus points in the budget include addressing corruption and making the accounting systems more transparent.

My hope is that these measures are translated into reality to improve the wellbeing and happiness of Malaysians.

DR IRWAN SHAH ZAINAL ABIDIN

Associate professor of economics and director, Asian Research Institute of Banking and Finance, Universiti Utara Malaysia

LAMPIRAN 15
KOSMO! (NIAGA): MUKA SURAT 45
TARIKH: 28 NOVEMBER 2018 (RABU)

TNB rekod pendapatan RM37.85 bilion

KUALA LUMPUR – Tenaga Nasional Bhd. (TNB) merekodkan pendapatan stabil sebanyak RM37.85 bilion bagi tempoh sembilan bulan pertama untuk tahun kewangan 2018.

Syarikat utiliti itu turut mencatatkan perolehan sebelum faedah, cukai, susut nilai dan pelunasan (EBITDA) sebanyak RM10.89 bilion dengan margin EBITDA pada 28.8 peratus.

Keuntungan selepas cukai pula direkodkan rendah pada RM3.9 bilion.

Presiden dan Ketua Pegawai Eksekutif TNB, Datuk Seri Azman Mohd. berkata, bagi tahun kewangan 2018,

pihaknya mencatat pencapaian cemerlang dengan skor 8.1 bagi Indeks Kepuasan Pelanggan (CSI) iaitu di kelompok teratas dalam industri.

"Kami sedar untuk meningkatkan skor ini kami perlu konsisten dalam memberikan perkhidmatan kepada pelanggan.

"Tambahan pula, baru-baru ini TNB telah menduduki tempat keempat di dunia dalam Laporan Menjalankan Perniagaan Bank Dunia 2019 bagi kemudahan untuk mendapatkan bekalan elektrik.

"Pengiktirafan ini diberikan dengan mengukur



AZMAN MOHD

prosedur, masa dan kos yang diperlukan perniagaan untuk mendapatkan penyambungan elektrik kekal,

bekalan boleh diharapkan dan indeks tarif yang telus," katanya dalam siaran akhbar yang dikeluarkan di sini semalam.

Sementara itu, Pengerusi TNB, Tan Sri Leo Moggie berkata, pihaknya juga telah berjaya menyempurnakan pemasangan lebih 21,000 lampu jalan luar bandar, iaitu hampir 90 peratus pencapaian tahunan di bawah Projek Lampu Jalan Kampung.

"Kami percaya bahawa usaha ini menyumbang kepada ciri-ciri keselamatan dan sekali gus meningkatkan kualiti kehidupan masyarakat," katanya.

LAMPIRAN 16
KOSMO! (NIAGA): MUKA SURAT 46
TARIKH: 28 NOVEMBER 2018 (RABU)

Sumbang panel PV untuk jana pendapatan

KUALA LUMPUR – Tenaga Nasional Bhd. (TNB) menyumbang panel solar photovoltaic (PV) bernilai RM278,000 kepada Montfort Boys Town bagi membantu institusi berkenaan menjana tenaga elektrik, seterusnya mendapat pulangan bagi membiayai operasinya.

Montfort Boys Town merupakan sebuah institusi pendidikan holistik bagi membantu golongan belia kurang bernasib baik.

Penajaan panel solar itu menggunakan kuota komuniti di bawah Skim Galakan Tarif (FiT) yang diselia Pusat Pembangunan Tenaga Lestari (SEDA), membolehkan Montfort Boys Town menjual tenaga yang dijana kepada TNB.

Pengerusi TNB, Tan Sri Leo Moggie berkata, sumbangan tersebut mencerminkan komitmen TNB dalam memenuhi peranannya sebagai warga korporat yang prihatin.

“Ini sebahagian daripada tanggungjawab korporat TNB selain membuktikan sokongan kami terhadap usaha kerajaan untuk meningkatkan peranan



LEO MOGGIE (kanan) menyempurnakan majlis Perasmian Penajaan Projek Solar Photovoltaic di Montfort Boy Town, Shah Alam baru-baru ini.

tenaga boleh diperbaharui,” katanya dalam siaran akhbar yang dikeluarkan di sini.

Sementara itu, Pengerusi Lembaga Gabenor Montfort Boys Town, Dr.

Philip Tan Chee Lin berkata, pihaknya berterima kasih kepada TNB kerana membolehkan institusi pendidikan itu menjana pendapatan sekitar RM43,000 setahun hasil jualan tenaga.

LAMPIRAN 17
BERITA HARIAN (ISU): MUKA SURAT 11
TARIKH: 28 NOVEMBER 2018 (RABU)

Projek abai alam sekitar undang bencana

Komentar



Prof Emeritus Datuk Dr Ibrahim Komoo

Felo Penyelidik Utama, Institut Alam Sekitar dan Pembangunan (LESTARI), UKM & Prof Kunjungan GEOTROPIK-UTM

Musim hujan tahun ini muncul lebih awal daripada biasa. Mulai Oktober lalu, hujan hampir setiap hari dan banyak kawasan dilanda banjir dan banjir kilat.

Walaupun Monsun Timur Laut bermula Oktober dan berakhir Mac setiap tahun, hujan lebat berterusan lazimnya hanya bermula pada Disember dan Januari.

Iklim boleh diramal berdasarkan maklumat tahun-tahun sebelumnya, namun keadaan sebenar dan impaknya di sesuatu kawasan masih sukar dipastikan. Tahun ini, hujan lebat menyebabkan banjir kilat di banyak kawasan, terutama di Kuala Lumpur dan Pulau Pinang.

Pada 14 November lalu, hujan lebat sejak jam 5 petang mengakibatkan banjir kilat di Kota Damansara, Sungai Buluh dan Rawang.

Pada 20 November pula, hujan berterusan sejak pagi menyebabkan beberapa kawasan di Pulau Pinang, antaranya Bayan Lepas, Teluk Kumbar, Sungai Ara, Teluk Bahang dan Sungai Pinang di Balik Pulau, dilanda bencana sama.

Berita begini tidak asing lagi bagi rakyat Malaysia. Hujan lebat diikuti banjir kilat telah dianggap lumrah dan seakan tiada jalan penyelesaian.

Hujan lebat juga pencetus fenomena tanah runtuh. Dalam kejadian terbaru, empat terkorban dan beberapa cedera parah akibat bencana berkenaan di tapak projek Lebuh Raya Berkembar Bukit Kukus, Pulau Pinang.

Sebelumnya, banyak peristiwa tanah runtuh setiap kali hujan lebat berterusan di sesuatu kawasan. Jika ia tidak mengorbankan nyawa, memusnahkan harta benda atau mengganggu ketenteraman awam, peristiwa ini tidak menjadi bahan berita.

Bencana tidak berkurang
Malaysia berdepan tiga bencana alam utama, iaitu banjir, banjir kilat dan tanah runtuh. Walaupun banyak usaha mencegah dan mengurangkan risiko bencana dilaksanakan oleh agensi kerajaan, ia masih tidak berkurang dan impaknya kelihatan semakin bertambah.

Membandingkan risiko bencana alam pada peringkat global, Malaysia seharusnya boleh mewujudkan dasar 'bencana alam sifar' kerana hampir semua bencana boleh dihindar dengan kemampuan ilmu dan teknologi sedia ada.

Banjir sungai atau banjir besar berlaku dalam tempoh lima hingga 10 tahun sekali, lazimnya di sungai utama seperti Sungai Kelantan, Sungai Pahang, Sungai Perak, Sungai Muar, Sungai Kinabatangan dan Sungai Batang Rajang.

Banjir berlaku secara berkala apabila curahan hujan melampaui keupayaan alur sungai mengalirkan air ke laut. Air sungai akan naik dan melimpahi tebing serta membentuk dataran banjir.

Dalam perancangan guna tanah, kita telah mengenal pasti kawasan dataran banjir dan lazimnya dibiarkan dalam keadaan tabii atau dijadikan kawasan pertanian.

Dalam keadaan begini, setiap kali banjir sungai berlaku, tiada kehilangan nyawa atau kerosakan harta benda. Mungkin jika banjir besar, hasil tanaman pada tahun terbit berkurangan.

Hari ini, kawasan dataran banjir dibangunkan sebagai kawasan perumahan. Tanpa mengambil kira, peristiwa banjir lepas, rumah teres satu tingkat dibina di atas tanah dan jika air naik beberapa sentimeter sahaja, air masuk ke rumah.

Walhal, orang dahulu sudah pandai membina rumah di atas tetiag bagi menghindari banjir.

Setiap kali banjir, semua harta benda dalam rumah musnah ditenggelami air. Apakah ini bencana alam atau kealpaan manusia sendiri?

Banjir kilat berlaku di kawasan pesat membangun, khususnya di bandar yang terletak di dataran rata. Pembangunan dan turap

permukaan bumi tanpa diikuti penyediaan sistem saliran yang mencukupi akan menyebabkan banjir kilat.

Limpahan air hujan yang banyak ketika hujan lebat menyebabkan rumah berhampiran perparitan dan jalan raya ditenggelami air secara mendadak.

Walaupun berlaku untuk tempoh beberapa jam sahaja, impaknya terhadap kerosakan harta dan kesesakan lalu lintas amat tinggi.

Banjir kilat tidak seharusnya berlaku jika sistem saliran direka bentuk dengan baik dan penjagaan dilakukan secara berkala. Banjir kilat sudah menjadi sangat lumrah, setiap kali hujan lebat ada sahaja kawasan mengalami banjir.

Masalah sistem perparitan punca banjir kilat

Banjir kilat sudah menjadi isu kronik di bandar raya Kuala Lumpur. Anahnya, jika ditinjau di kawasan yang kerap mengalami bencana itu, ia sering dikaitkan dengan sistem perparitan yang terlalu kecil, parit tersumbat atau ada projek pembangunan baharu di kawasan berhampiran.

Semua ini berkait rapat dengan kelemahan perancangan, kelulusan projek dan penjagaan. Ini pastinya bukan bencana alam.

Bencana tanah runtuh pula paling banyak meragut nyawa. Di negara kita, kebanyakan tanah runtuh berlaku pada cerun buatan, iaitu cerun potong, tanggakan atau cerun kejuruteraan, bukannya pada cerun tabii.

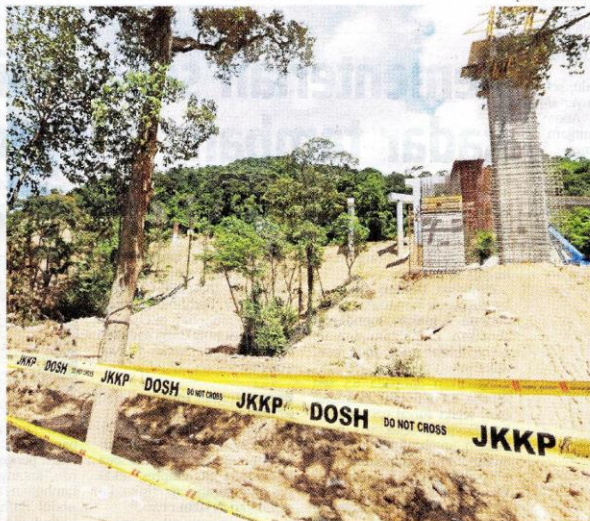
Pada prinsipnya, semua cerun buatan perlu dibina dalam keadaan selamat kerana ia direkabentuk selepas mengambil kira semua faktor kestabilan cerun. Malangnya, kebanyakan kegagalan cerun di Malaysia berlaku pada cerun buatan bukan kejuruteraan, kesilapan dalam rekabentuk, pembinaan cerun yang tidak mengikut spesifikasi atau akibat penjagaan cerun lemah.

Demi keselamatan awam, semua punca kegagalan ini tidak boleh diterima dan bukannya didorong oleh faktor tabii.

Malaysia berdepan curahan hujan sepanjang tahun dan kadar yang tinggi pada musim tengkujuh. Negara mempunyai data yang baik mengenai fenomena ini.

Iklim atau hujan sememangnya pencetus banjir, banjir kilat dan tanah runtuh, namun ia tidak boleh dijadikan alasan berlakunya bencana alam.

Kita perlu mengenal pasti faktor penyebab penting dan meningkatkan etika serta profesionalisme dalam perancangan, kelulusan dan pembangunan projek, terutama apabila berkaitan keselamatan awam.



Masalah banjir kilat serta kejadian tanah runtuh di tapak projek dipercayai antara bencana berpunca daripada fenomena hujan lebat namun bencana seperti ini dapat dielak jika projek pembangunan diurus dengan penuh profesional dan beretika.

LAMPIRAN 18
SINAR HARIAN (GLOBAL): MUKA SURAT 48
TARIKH: 28 NOVEMBER 2018 (RABU)

InSight berjaya mendarat di Marikh

PASADENA - Sorakan gembira dan tepukan gemuruh bergema di Makmal Pendorongan Jet Agensi Pentadbiran Angkasa dan Aeronautik Kebangsaan (Nasa), kelmarin selepas kapal angkasa digelar InSight mendarat di planet Marikh, sekali gus menamatkan penantian selama hampir tujuh tahun untuk merealisasikan misi itu.

InSight yang menelan kos AS\$993 juta (RM4.1 bilion) itu direka untuk mendengar gempa dan gegaran sebagai cara merungkai misteri planet merah tersebut dan bagaimana ia terbentuk sejak berbilion tahun lalu.

"Pendaratan dramatik itu disahkan. Ia sememangnya detik mendebar dan penuh emosi," menurut pengendali kawalan misi di Nasa yang disambut gembira puluhan saintis.

Difahamkan, kapal angkasa Nasa itu adalah yang pertama mendarat di Marikh sejak pendaratan Curiosity pada 2012.

Sebelum ini, lebih separuh daripada 43 cubaan untuk mendarat di planet tersebut dengan kenderaan robotik milik agensi angkasa seluruh gagal melaksanakan misi mereka. - AFP

LAMPIRAN 19
THE SUN (NEWS WITHOUT BORDERS): MUKA SURAT 7
TARIKH: 28 NOVEMBER 2018 (RABU)

Nasa lander touches down on Mars

WASHINGTON: Cheers and applause erupted at Nasa's Jet Propulsion Laboratory in Pasadena, California on Monday as a waist-high unmanned lander, called *InSight*, touched down on Mars, capping a nearly seven-year journey from design to launch to landing.

The arrival of the US\$993 million spacecraft - designed to listen for quakes and tremors as a way to unveil the Red Planet's inner mysteries, how it formed billions of years ago and, by extension, how other rocky planets like Earth took shape - marked the eighth successful landing on Mars in Nasa history.

"Touchdown confirmed," a mission control operator at Nasa said, as pent-up anxiety and excitement surged through the room, and dozens of scientists leapt from their seats to embrace each other.

"It was intense and you could feel the emotion," Nasa administrator Jim Bridenstine said.

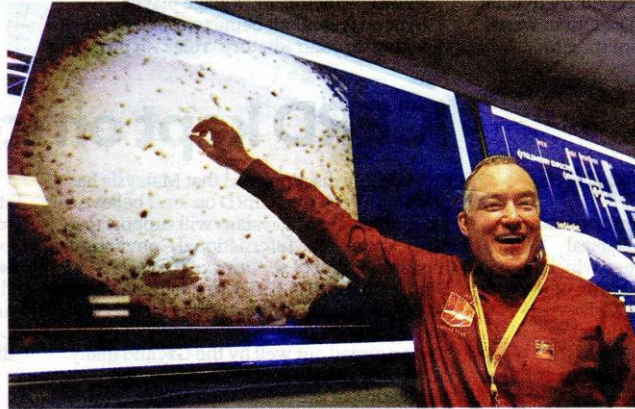
"Ultimately, the day is coming when we land humans on Mars," he said, adding the goal is to do so by the mid-2030s.

The vehicle appeared to be in good shape but the dust kicked up during the landing obscured the first picture *InSight* sent back, which was heavily flecked.

The spacecraft is Nasa's first to touch down on Earth's neighboring planet since the *Curiosity* rover arrived in 2012.

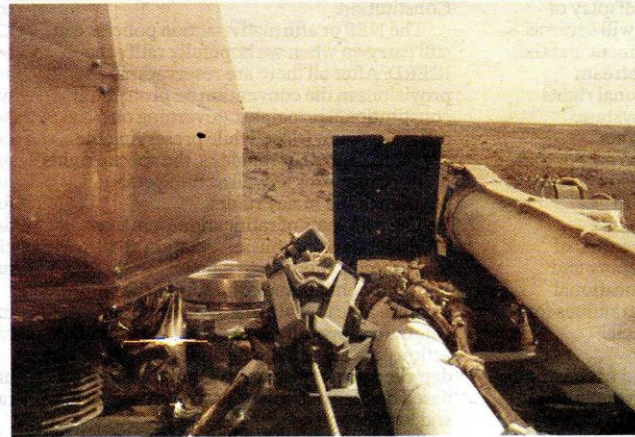
More than half of 43 attempts to reach Mars with rovers, orbiters and probes by space agencies from around the world have failed.

Nasa is the only space agency to have made it. - AFP



REUTERS/APPIX

Project manager Tom Hoffman points to the first picture sent back to Earth from Mars by *InSight* on Monday.



This handout image released by Nasa/JPL-Caltech on Monday shows a view from *InSight* after it touched down on the surface of Mars.

LAMPIRAN 20
NEW STRAITS TIMES (WORLD): MUKA SURAT 79
TARIKH: 28 NOVEMBER 2018 (RABU)

OPEN LETTER

Gene editing 'crazy', say Chinese scientists

SHANGHAI: More than 100 scientists, most of them in China, have condemned as "crazy" and unethical a geneticist's claim that he altered the genes of twin girls born this month to create the first gene-edited babies.

In an open letter circulating online, the scientists said the use of CRISPR-Cas9 technology to edit the genes of human embryos was risky, unjustified and harmed the reputation and development of the biomedical community.

In videos posted online, scientist He Jiankui defended what he claimed to have achieved, saying he had performed the gene editing to help protect the babies from future infection with HIV, the virus that causes AIDS.

"The biomedical ethics review for this so-called research exists



A technician working at the DNA research laboratory for gene sequencing in Nanjing, Jiangsu Province, China. EPA PIC

in name only. Conducting direct human experiments can only be described as crazy," said a copy of the letter posted by the Chinese news website The Paper.

"Pandora's box has been opened. We still might have a glimmer of hope to close it before it's too late," said the letter written in Chinese and signed by about 120 scientists.

Yang Zhengang, a Fudan University professor, said he signed the letter because gene editing is "very dangerous".

The Southern University of Science and Technology, where He holds an associate professorship, said it had been unaware of the research project and that He had been on leave without pay

since February.

China's National Health Commission said on Monday it was "highly concerned" and had ordered provincial health officials "to immediately investigate and clarify the matter".

The government's medical ethics committee in the city of Shenzhen, in southern China, said it was investigating the case, as was the Guangdong provincial health commission, according to *Southern Metropolis Daily*, a state media outlet.

CRISPR-Cas9 is a technology that allows scientists to essentially cut-and-paste DNA, raising hope of genetic fixes for disease. However, there are concerns about its safety and ethics. **Reuters**

LAMPIRAN 21
THE STAR (WORLD): MUKA SURAT 22
TARIKH: 28 NOVEMBER 2018 (RABU)



Cheers as InSight lands on Mars

Spacecraft set to run seismic experiments on Earth's neighbour

PASADENA: Cheers and applause erupted at Nasa's Jet Propulsion Laboratory as a waist-high unmanned lander, called InSight, touched down on Mars, capping a nearly seven-year journey from design to launch to landing.

The dramatic arrival of the US\$993mil (RM4.16bil) spacecraft – designed to listen for quakes and tremors as a way to unveil the Red Planet's inner mysteries, how it formed billions of years ago and, by extension, how other rocky planets like Earth took shape – marked the eighth successful landing on Mars in Nasa's history.

"Touchdown confirmed," a mission control operator at Nasa said, as pent-up anxiety and excitement surged through the room, and dozens of scientists leapt from their seats to embrace each other.

"It was intense and you could feel the emotion," said Nasa administrator Jim Bridenstine, in an interview on Nasa television on Monday.

Bridenstine also said President Donald Trump and Vice President Mike Pence watched on television and called to congratulate the US space agency for its hard work.

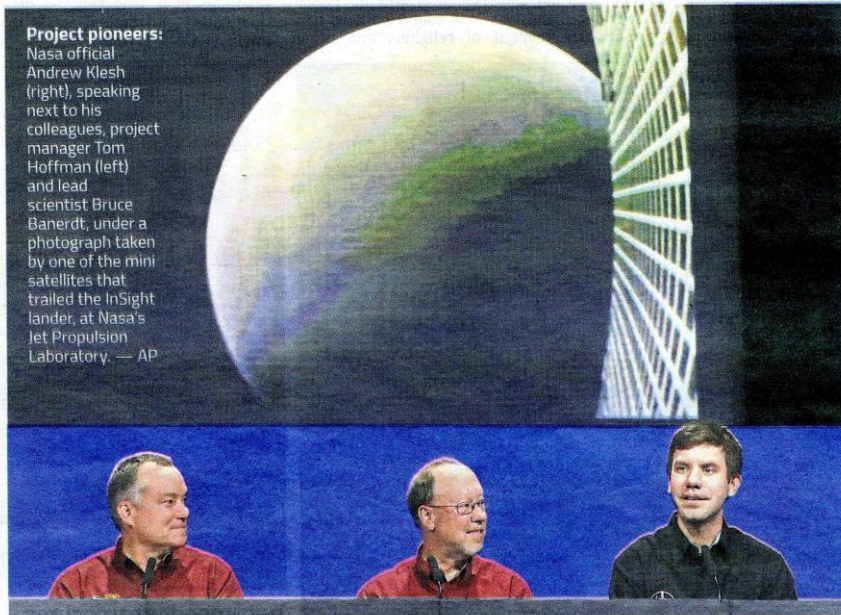
"Ultimately, the day is coming when we land humans on Mars," Bridenstine said, adding that the goal is to do so by the mid 2030s.

The vehicle appeared to be in good shape, according to the first communications received from the Martian surface.

But as expected, the dust kicked up during the landing obscured the

Project pioneers:

Nasa official Andrew Klesh (right), speaking next to his colleagues, project manager Tom Hoffman (left) and lead scientist Bruce Banerdt, under a photograph taken by one of the mini satellites that trailed the InSight lander, at Nasa's Jet Propulsion Laboratory. — AP



first picture InSight sent back, which was heavily flecked.

France's Centre National d'Etudes Spatiales made the Seismic Experiment for Interior Structure instrument, the key element for sensing quakes.

The principal investigator on the French seismometer, Philippe Lognonne, said he was "relieved and very happy" at the outcome.

"I've just received confirmation that there are no rocks in front of the lander," he said.

Next, InSight must open its solar arrays, as Nasa waits until later in the afternoon to learn if that final, crucial phase went as planned.

The spacecraft is meant to be solar-powered once it reaches the surface of Mars. — AFP

LAMPIRAN 22
MALAY MAIL (WORLD): MUKA SURAT 12
TARIKH: 28 NOVEMBER 2018 (RABU)

MALAY MAIL
WEDNESDAY
NOVEMBER 28, 2018

WORLD

Cheers as InSight spacecraft lands on Mars

PASADENA (United States) — Cheers and applause erupted at Nasa's Jet Propulsion Laboratory as a waist-high unmanned lander, called InSight, touched down on Mars, capping a nearly seven-year journey from design to launch to landing.

The dramatic arrival of the US\$993 million (RM4.1 billion) spacecraft — designed to listen for quakes and tremors as a way to unveil the Red Planet's inner mysteries, how it formed billions of years ago and, by extension, how other rocky planets like Earth took shape — marked the eighth successful landing on Mars in Nasa's history.

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"It was intense and you could feel the emotion," said Nasa administrator Jim Bridenstine, in an interview on Nasa television afterward.

Bridenstine also said President Donald Trump and Vice President Mike Pence had watched on television and called to congratulate the US space agency for its hard work.

"Ultimately, the day is coming when we land humans on Mars," Bridenstine said, adding that the goal is to do so by the mid 2030s.

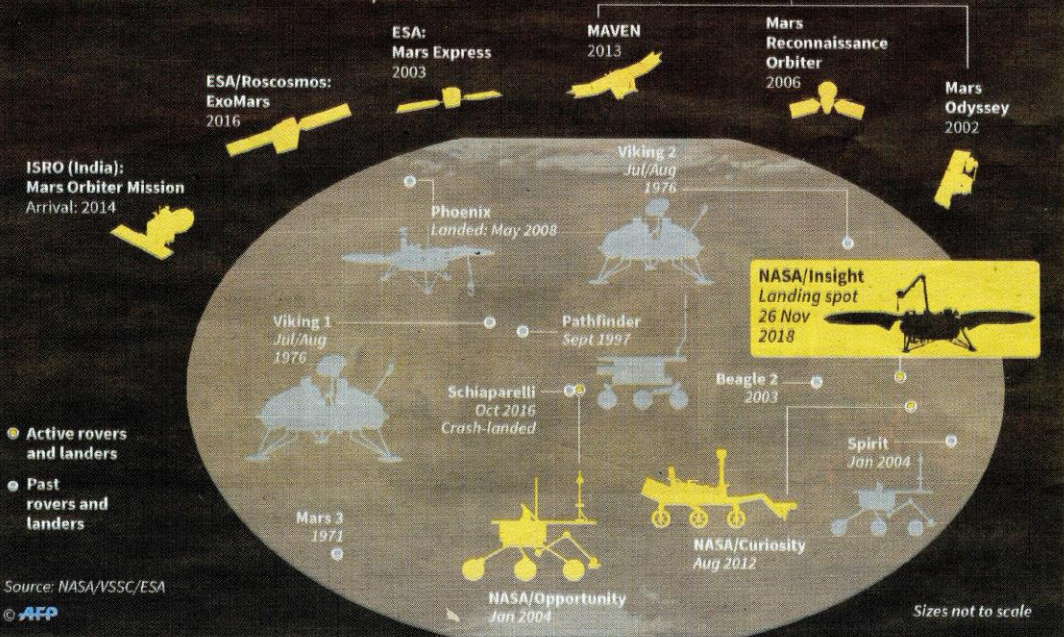
The vehicle appeared to be in good shape, according to the first communications received from the Martian surface.

But as expected, the dust kicked up during the landing obscured the first picture InSight sent back, which was heavily flecked.

France's Centre National d'Etudes Spatiales (CNES) made the Seismic Experiment for Interior

Mars missions

Current active satellites and rovers on and around planet Mars



Structure (SEIS) instrument, the key element for sensing quakes.

The principal investigator on the French seismometer, Philippe Lognonné, said he was "relieved and very happy" at the outcome.

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The spacecraft is meant to be solar-powered once it reaches the surface of Mars.

The spacecraft is Nasa's

first to touch down on Earth's neighbouring planet since the Curiosity rover arrived in 2012.

More than half of 43 attempts to reach Mars with rovers, orbiters and probes by space agencies from around the world have failed.

Nasa is the only space agency to have made it, and is invested in these robotic missions as a way to prepare for the first Mars-bound human explorers in the 2030s.

"We never take Mars for granted. Mars is hard," Thomas Zurbuchen, Nasa associate administrator for the science mission directorate, said. — AFP



Nasa engineers celebrate InSight's successful landing on Mars at the Nasa Jet Propulsion Laboratory in Pasadena, California. — Picture by AFP

LAMPIRAN 23
NEW STRAITS TIMES (WORLD): MUKA SURAT 77
TARIKH: 28 NOVEMBER 2018 (RABU)

ROBOTIC MISSION

NASA'S 'INSIGHT' LANDS ON RED PLANET

Touchdown marks eighth successful landing on Mars in Nasa history

PASADENA

CHEERS and applause erupted at the National Aeronautics and Space Administration (Nasa) Jet Propulsion Laboratory on Monday as a waist-high unmanned lander, called *InSight*, touched down on Mars, capping a nearly seven-year journey from design to launch to landing.

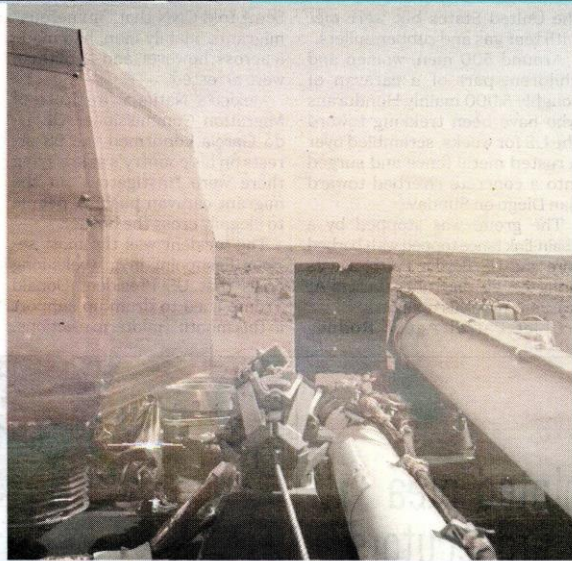
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for quakes and tremors as a way to unveil the Red Planet's inner mysteries, how it formed billions of years ago and, by extension, how other rocky planets like Earth took shape — marked the eighth successful landing on Mars in Nasa's history.

"Touchdown confirmed," a mission control operator at Nasa said, as pent-up anxiety and excitement surged through the room, and dozens of scientists leapt from their seats to embrace each other.

"It was intense and you could feel the emotion," said Nasa administrator Jim Bridenstine, in an interview afterward.

Bridenstine also said President Donald Trump and Vice-President Mike Pence had watched on television and called to congrat-



A view from Nasa's 'InSight' lander after it touched down on the surface of Mars. AFP PIC

ulate the United States space agency for its hard work.

"The day is coming when we land humans on Mars," Bridenstine said.

The vehicle appeared to be in good shape, according to the first communications received from the Martian surface.

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France's Centre National

d'Etudes Spatiales made the Seismic Experiment for Interior Structure instrument, the key element for sensing quakes.

The principal investigator on the French seismometer, Philippe Lognonne, said he was "relieved and very happy" at the outcome.

And in a final crucial phase, Nasa said *InSight* signalled to Earth that its solar panels — twin solar arrays spanning 2.2m in width — had opened and were collecting sunlight on the surface of Mars.

"The *InSight* team can rest a little easier tonight now that we know the spacecraft solar arrays are deployed and recharging the batteries," said Tom Hoffman, *InSight*'s project manager.

The spacecraft is Nasa's first to touch down on Earth's neighbouring planet since the *Curiosity* rover arrived in 2012.

More than half of 43 attempts to reach Mars with rovers, orbiters and probes by space agencies from around the world have failed.

Nasa is the only space agency to have made it, and has invested in these robotic missions as a way to prepare for the first Mars-bound human explorers in the 2030s. **AFP**

Nasa engineers Kris Bruvold (left) and Sandy Krasner cheering in the space flight operation facility at Nasa's Jet Propulsion Laboratory in Pasadena, California, on Monday. REUTERS PIC



LAMPIRAN 24
KOSMO! (INFINITI): MUKA SURAT 28 & 29
TARIKH: 28 NOVEMBER 2018 (RABU)

RUNTUHAN glasier di permukaan paras air laut semakin meningkat.

RUNTUHAN glasier dapat dikurangkan sekiranya disokong dengan struktur kejuruteraan geografi.

RONA alam

NCANA alam perlu banjir boleh berlaku disebabkan iklim dunia yang tidak menentu.

RIBUT salji boleh berlaku dan menenggelamkan negara berhampiran Antartika akibat runtutan ais.

PARA saintis mencadangkan pembinaan struktur tiang gergasi di permukaan laut bagi menyokong glasier daripada runtuh.

Struktur tiang dalam laut

MELIHAT pemanasan global yang semakin rakus, para saintis telah mencadangkan pembinaan struktur tiang gergasi di permukaan laut.

Rasionalnya mudah iaitu bagi menghalang glasier Antartika sebesar Britain daripada terus mencair dan meningkatkan paras air laut dunia.

Skema kejuruteraan yang akan diterapkan dalam skala sebesar Panama atau Terusan Suez itu ialah pembinaan tiang yang terboring di dasar laut untuk menyokong Glasier Thwaites.

Kaedah kedua ialah membina dinding di bawah permukaan laut setinggi 100 meter sepanjang 80 hingga 100 kilometer untuk menghalang pertembungan air panas dasar laut yang mencairkan glasier dari bawah.

Projek itu diutarakan dalam jurnal Kesatuan Geofizik Eropah, *The Cryosphere* yang memupuk kesedaran mengenai pelepasan gas rumah hijau dan kesan pada iklim perubahan cuaca.

Penyelidik Geophysical Fluid Dynamics Laboratory, Princeton University, Michael Wolovick berkata, keruntuhan ais glasier Thwaites mampu meningkatkan paras air laut kepada 3 meter.

Dianggarkan sekitar penghujung abad nanti, paras laut yang semakin tinggi akan menenggelamkan beberapa negara pulau dan delta sungai yang padat populasi.

Kejuruteraan glasier memperlambatkan keruntuhan ais Antartika

Kajian membolehkan penemuan mengenai projek memperlambatkan peningkatan paras air laut disebabkan perubahan iklim.

- Dengan kaedah normal, dasar segmen ais akan disokong oleh perubahan iklim.
- Struktur dinding disokong oleh struktur tiang.
- Struktur tiang disokong oleh struktur tiang.

Kemungkinan Penyelesaian

1. Dinding tiang menyokong 20 centuri di bawah glasier.

2. Dinding tiang menyokong 80-120m menyokong 10-20m di bawah glasier.

3. Dinding tiang menyokong 80-120m menyokong 10-20m di bawah glasier.

4. Dinding tiang menyokong 80-120m menyokong 10-20m di bawah glasier.

THWAITES merupakan glasier terbesar di Antartika dengan keluasan seperti negara Britain.

Menyokong glasier daripada cair

penduduk khususnya di Asia dan Afrika.

"Beberapa ujian komputer untuk melihat skema kejuruteraan geografi telah dilakukan sambil mengambil kira pemboleh ubah yang mempengaruhi dinamik glasier laut.

Teknologi

"Penghalang di permukaan laut yang diperbuat daripada material seperti batuan semula jadi dilihat dapat mengurangkan pencairan glasier sehingga 30 peratus.

"Walaupun mungkin telah terlambat, tetapi teknologi kejuruteraan ini mungkin dapat menghalang glasier itu daripada runtuh sehingga seabad kemudian," ujarnya.

Hasil penyelidikannya, struktur tersebut berpotensi mengukuhkan glasier dengan memberikan sokongan pada bahagian dasar.

Ia juga dapat menghalang glasier daripada cair akibat pertembungan dengan air panas pada dasar laut.

Bahkan, projek itu juga signifikan dalam mengurangkan keruntuhan glasier ais di kawasan Antartika.

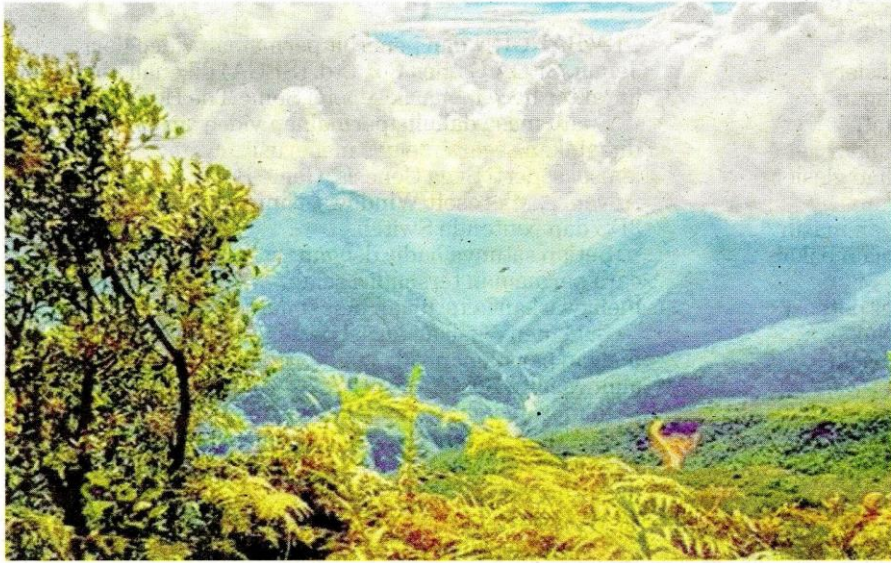
Bagaimanapun, idea berkenaan masih jauh lagi untuk dilaksanakan selain bakal menelan ratusan bilion ringgit.

Hal ini kerana masih terdapat potensi kesan sampingan selain memerlukan kajian lebih mendalam oleh pelbagai pihak.

Katanya, matlamat utama kajian itu dilakukan ialah mencetuskan perbincangan dalam kalangan saintis.

BERUANG KUTUB merupakan antara ribuan haiwan di Antartika yang bakal terjejas akibat pemanasan global.

LAMPIRAN 25
KOSMO! (INFINITI): MUKA SURAT 30
TARIKH: 28 NOVEMBER 2018 (RABU)



PEMANASAN suhu menyebabkan pokok tropika berpindah ke tempat tinggi dan sejuk.

Pokok tropika 'larikan diri' akibat perubahan iklim

SATU kajian antarabangsa yang diketuai oleh ahli biologi tropika di Universiti of Miami, Florida mendapati pokok tropika telah berhijrah untuk 'melarikan diri' daripada perubahan iklim.

Kajian tersebut mendapati hutan tropika dan subtropika telah merentasi Gunung Andes di Amerika Selatan yang memberi respon terhadap suhu pemanasan dengan berpindah ke tempat lebih tinggi serta sejuk.

Penyelidikan itu mengesahkan bahawa kebanyakan spesies lain di seluruh dunia seperti pokok-pokok dari hutan Andes, Amazon, Ecuador,

Peru dan utara Argentina telah bergerak ke tempat lebih tinggi.

"Di Andes, ekosistem boleh berubah dengan cepat dan dramatik. Sebagai contoh, dari hutan awan yang kering kepada hutan awan basah.

"Perubahan itu dipanggil *ecotones* yang bertindak menyekat migrasi spesies," terang salah seorang penyelidik, Belen Fadrique.

Tambahnya, *ecotones* menjadi halangan kepada pokok-pokok untuk berpindah.

Sekiranya, pokok-pokok tersebut tidak dapat berpindah maka ia akan pupus.