

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

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LAMPIRAN 1
BERITA HARIAN (NASIONAL): MUKA SURAT 14
TARIKH: 16 OKTOBER 2019 (RABU)

Loji insinerator di Sendayan akan ditutup sebelum 2025

Kuala Lumpur: Loji insinerator terakhir yang menguruskan operasi pelupusan sisa berjadual di Pusat Kualiti Alam dekat Sendayan, Negeri Sembilan akan ditutup sebelum 2025.

Percaturan berkenaan seiring tekad kerajaan untuk beralih kepada penggunaan teknologi moden dalam menguruskan pelupusan sisa berjadual, selain mencerminkan usaha Malaysia mengorak langkah ke arah mencapai status negara maju.

Menteri Tenaga, Sains, Teknologi, Alam Sekitar dan Perubahan Iklim, Yeo Bee Yin, ketika menjelaskan perkara itu berkata, Pusat Kualiti Alam menghentikan operasi dua insinerator di kawasan terbabit yang menggunakan teknologi lama.

Langkah penutupan itu adalah tepat kerana pelepasan gas yang dihasilkan insinerator di premis terbabit mengundang lebih banyak kesan pencemaran, berbanding teknologi moden.

"Sektor perindustrian, perubahan dan perdagangan menghasilkan pelbagai bahan buangan, termasuk bersifat toksik dikategorikan sebagai sisa berjadual menerusi Akta Kualiti Alam Sekeliling 1974," katanya menjawab soalan Cha Kee Chin (PH-Rasah) yang meminta butiran garis panduan dan syarat pemberian lesen teknologi pelupusan sisa berjadual.

LAMPIRAN 2
BERITA HARIAN (NASIONAL): MUKA SURAT 69
TARIKH: 16 OKTOBER 2019 (RABU)



Norlin ketika menghadiri Sidang IdeaXchange Ke-32 di Kuala Lumpur, semalam.

(Foto Khairul Azhar Ahmad/BH)

JAS tambah baik pelan tindakan pencemaran

Kuala Lumpur: Jabatan Alam Sekitar (JAS) akan menambah baik Pelan Tindakan Pembakaran Terbuka Kebangsaan dan Pelan Tindakan Jerebu Kebangsaan menggunakan peruntukan disalurkan dalam Belanjawan 2020.

Ketua Pengarah JAS, Norlin Jaafar, berkata ketutamaan usaha penambahbaikan pelan tindakan adalah bagi menangani masalah jerebu rentas sempadan dan isu pencemaran lain di negara ini.

"Ia perlu dilakukan kerana berlaku banyak kes

pembakaran, termasuk membabitkan kawasan tanah gambut dan sampah sarap di negara ini yang memerlukan pelan tindakan lebih komprehensif.

"Kita juga akan bekerjasama dengan pihak berkuasa tempatan (PBT) untuk mengenal pasti tapak haram yang digunakan bagi tujuan pembakaran terbuka," katanya selepas menghadiri Sidang IdeaXchange Ke-32, di sini semalam.

Dalam Belanjawan 2020 yang dibentangkan Jumaat lalu, RM30 juta diperun-

tukkan kepada JAS dan Jabatan Kimia bagi menangani isu pencemaran di negara ini.

Antara lain, peruntukan itu bertujuan meningkatkan keupayaan dan kapasiti kedua-dua agensi terbabit dalam menangani isu berkenaan.

Norlin ketika mengulas lanjut, berkata penambahbaikan pelan tindakan itu turut membabitkan elemen pemantauan dan penguatkuasaan melalui usaha meningkatkan keupayaan logistik serta peralatan.



LAMPIRAN 3
THE SUN (NATION): MUKA SURAT 2
TARIKH: 16 OKTOBER 2019 (RABU)

Awer: Ensure water, power projects are properly regulated

PETALING JAYA: The Association of Water and Energy Research Malaysia (Awer) has urged the government to study mechanism to utilise the existing water operators and Pengurusan Aset Air Bhd (PAAB) to implement water-related projects as well as electricity companies for rural electricity projects.

"This will enable regulators like the National Water Services Commission (SPAN) as well as Energy Commission to regulate these projects to ensure it follows industry standard. There are cases where operators are forced to takeover below standard projects and this is due to these projects are being implemented via ministries or agencies without such expertise. Water related projects should be under the ministry in charge of water and similarly the case for electricity related projects," Awer president Piarapakaran S said in a statement in response to Budget 2020.

He also called for the shutdown of redundant agencies, pointing out that the Sewerage Services Department (JPP) has overlapping function with PAAB, SPAN and Indah Water Konsortium (IWK); while the Water Supply Department (JBA) has overlapping functions with PAAB, SPAN and water operators.

"Both JBA and JPP must be closed down and its staff force can be absorbed to SPAN, PAAB, IWK, water operators or other government vacancies," said Piarapakaran.

For the energy and green technology sector, he said, the Sustainable Energy Development Authority (Seda) and Yayasan Hijau can be closed down. "Seda's functions can be carried out by Energy Commission. Meanwhile, Yayasan Hijau's function can be carried out by GreenTech Corporation Malaysia. The government should not waste taxpayers' money on redundant agencies."

He added that IWK must be restructured under the Water Services Industry Act 2006.

LAMPIRAN 4
 THE STAR (STAR ASEAN): MUKA SURAT 10
 TARIKH: 16 OKTOBER 2019 (RABU)



LAMPIRAN 5
THE STAR (STAR WORLD): MUKA SURAT 29
TARIKH: 16 OKTOBER 2019 (RABU)

DoE to enhance facilities in effort to fight haze

BY ALISHA NUR MOHD NOOR
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KUALA LUMPUR: The Department of Environment (DoE) under the Energy, Science, Technology, Environment and Climate Change Ministry will upgrade its logistics facilities as an integrative measure to combat haze.

Its director-general, Norlin Jaafar, said with the allocation announced in Budget 2020, the DoE will upgrade its mode of transportation to improve access to remote areas.

"We are going to upgrade our facilities, especially for logistics, to do inspections at hotspots and places that are remote, and we need four-wheel drives for that," she said at the 32nd ideaXchange event themed "Haze: A Blame Game or an Endgame" at the Malaysia External Trade Development Corporation.

She added they will also upgrade other facilities like tools to measure air quality and acquire complete protective gear for better protection while combatting haze.

Apart from that, Norlin said they will work within the budget to improve their standard operating procedures and to further strengthen enforcement.

"We will work with the local councils to stop open burning and also organise awareness programmes for the public to know the importance of taking care of the environment," she

said. Last Friday, during the tabling of Budget 2020 in Parliament, Finance Minister Lim Guan Eng had proposed a RM30 million allocation for the DoE and the Chemistry Department.

Meanwhile, at the same event, deputy secretary-general of Environment and Climate Change at the Energy, Science, Technology, Environment and Climate Change Ministry, Dr Nagulendran Kangayatkarasu, said they are looking into a proposal to set up a bilateral joint committee between Indonesia and Malaysia to combat haze.

"I think its time for us to look into this to mitigate the haze that regularly affects the Southeast Asian region," he said.

Nagulendran added there is an alternative measure to curb haze, which is by preventing biomass from burning.

"Waste can be a resource. Haze occurs when local communities like in Indonesia start burning biomass. So this is a social economy issue," he said.

"But if we can give them a value chain maybe they can stop the burning. According to a study by chairman of ASM Haze Task Force, Professor Datuk Dr A Bakar Jaafar, it is a viable option," he added.

When asked if there was any progress on the proposed Transboundary Haze Act, he said the ministry was reviewing the matter.



ON A MISSION ... Deputy Prime Minister Datuk Seri Dr. Wan Azizah Wan Ismail and Energy, Science, Technology, Environment and Climate Change Minister Yeo Bee Yin making their way into Parliament to chair the Dubai Expo 2020 special committee meeting yesterday. The event will be the first world expo hosted in the Middle East, Africa and South Asia region and is expected to attract 25 million visitors, with 70% projected to come from outside the UAE. - **BERNAMAPIX**

LAMPIRAN 6
NEW STRAIT TIMES (NATION): MUKA SURAT 7
TARIKH: 16 OKTOBER 2019 (RABU)

89 compounds issued for open burning

A TOTAL of 23 investigation papers on open burning have been opened, the Dewan Rakyat was told yesterday.

Deputy Energy, Science, Technology, Environment and Climate Change Minister Isnaraisah Munirah Majilis said to date, a total of 89 compounds had been issued to those found committing the offence under the Environmental Quality Act 1974.

She said the offence carried a maximum penalty of RM500,000 fine and five years' jail.

"A RM2,000 compound can also be issued for each offence."

She said based on observations and investigations by the Department of Environment (DoE), agricultural open burning and peat forest fires were found to be the main contributors to haze.

"As an Asean member, Malaysia will continue to play its role to urge member states, especially

Indonesia, to comply with obligations under the Asean Agreement on Transboundary Haze Pollution to prevent such activities.

"In addition, every member country must give serious attention to realise the Road Map on Asean Cooperation towards Transboundary Haze Pollution Control with Means of Implementation, which is the framework to achieve the Asean Haze Free Region by 2020," she said in reply to a question by Datuk Mohd Nizar Zakaria (Umno-Parit).

She said the ministry and DoE would roll out initiatives to address the issue, including activating the national haze action plan.

"The national haze action plan will involve agencies, including the Fire and Rescue Department and National Disaster Management Agency.

"We will carry out enforcement to nab culprits who are responsible for open fires at peat forests and waste disposal sites.

"Long-term efforts include drafting a law on mitigating haze and accountability for Malaysian firms operating in Indonesia," she said in reply to a supplementary question by Nizar.

Nurul Izzah Anwar (PKR-Permatang Pauh) asked if action could be taken by the authorities against Malaysian firms in Indonesia found to have been involved in open burning.

"The ministry is of the view that it will not reject any (legal) action taken against these companies, including Malaysian firms in Indonesia, found to have caused losses in sectors such as education and tourism in Malaysia.

"We welcome suggestions on the matter," Isnaraisah said.

LAMPIRAN 7
NEW STRAIT TIMES (OPINION): MUKA SURAT 54
TARIKH: 16 OKTOBER 2019 (RABU)



ZAKRI ABDUL HAMID

CLIMATE CHANGE

EXPLORING ALL OPTIONS TO NET-ZERO EMISSIONS

With time running out to achieve goals on carbon neutrality, it is imperative that more countries seriously consider cost-effective solutions to climate change



A net-zero emission future must include continuation of the shift from high carbon to low carbon and, ultimately, to renewable energy. FILE PIC

"NET-Zero Emissions" is a perennial hot topic at the annual Science and Technology for Society Forum (STS Forum), the science world's answer to the World Economic Forum, held each October in Kyoto.

Because the Earth's climate reacts strongly to small level changes of carbon dioxide (CO2) and methane in the atmosphere, humanity's emissions of these greenhouse gases must be reduced to a point that can be offset via natural and artificial carbon sinks, thereby achieving "net zero emissions".

The 2018 Intergovernmental Panel on Climate Change (IPCC) report underlined that net greenhouse gas emissions must be reduced to zero in order to stabilise global temperatures. The report also stated that any scenario that failed to reduce emissions to zero will not stop climate change.

This objective has been adopted by several countries under the Paris Agreement.

According to Professor Joy Pereira of Universiti Kebangsaan Malaysia and Vice-Chair, IPCC Working Group 2 on Impacts, Adaptation and Vulnerability, Southeast Asia is expected to experience the largest impact on economic growth as global warming increases to 1.5° Celsius.

Among the anticipated impacts include more heavy precipitation associated with tropical cyclones, highest increases in number of hot days as well as net reductions in yields of maize and rice, among others.

It is expected that increased exposure to multiple and compound climate-related risks would result in greater propor-

tions of people that are both exposed and susceptible to poverty.

Today, energy sector emissions continue to rise with energy consumption, with further increases foreseen over the next three to four decades. A net-zero emission future must include continuation of the shift from high carbon to low carbon and, ultimately, to renewable energy.

We have the technology needed to mitigate climate change; the IPCC report had declared.

All too often, however, short-term growth is prioritised over climate change response.

But leading countries are showing the way to a better quality of life and vibrant economy without increasing their carbon footprint.

Sweden, for one, with its strong public welfare system is striving to be a model for sustainability with net-zero emissions.

At this year's meeting, there was reference also to Germany's transition to renewables, including the complete elimination of nuclear power. A systematic approach is being taken, with targets for the energy mix and subsidies.

Germany's renewables are not enough for its energy needs, causing it to turn to power from other countries that are not necessarily reliable and leading therefore to questions of ethics.

And the German public is generally against the idea of their electricity supply being controlled by another country.

Ethical debates also include the phasing out of nuclear power.

Among many other challeng-

ing issues raised in Kyoto: how to reduce the impact on climate of the transport sector as global trade grows, and what can be done about the production of structural materials such as cement, which constitutes a major percentage of CO2 emissions.

It is necessary to transform the entire energy system, many believe, including for greater efficiency.

Promising pathways to progress also include power from nuclear fission (soon to be demonstrated at a multi-billion-dollar facility in France) — one of the most ambitious energy projects in the world today, putting a common price on carbon, and demanding that companies make a full accounting and disclosure of emissions.

Hydrogen was also raised as a solution for a net-zero emissions society. It can help decarbonise diverse sectors such as transportation.

By 2030, hydrogen use in industry should be possible through scaling up the value chain with governmental support. Japan is leading in supporting hydrogen technology as well as scaling up industry.

Kawasaki Heavy Industries is developing hydrogen gas turbine combustion technology and other related hydrogen initiatives and pilot projects.

Additional insight about hydrogen included the point that it could be the perfect solution to the issue of "difficult" carbons.

Hydrogen is essential for integration of renewables, mobility electrification and recycling industry CO2.

Hydrogen development is ac-

celerating dramatically but we need higher targets and could achieve much more were it not for a lack of political will.

It was noted that for net-zero emissions, scalability is the key.

Although we understand low carbon solutions, such as using hydrogen technology scientifically, we do not know how to achieve them economically.

Scale is an engineering problem and it will be helpful to learn by experience through new engineering initiatives.

Another conversation centred on accelerating transformation, including the question of top-down versus bottom-up approaches.

A top-down example would be a United Nations road map, but some argue that change should be driven by local decision-makers. There was wide agreement that climate change should be approached with a holistic perspective, such as that adopted in the United Nations Sustainable Development Goals initiative.

Although accurate predictions regarding climate change were made decades ago, and we know what we need to do and how, however little has been done since then.

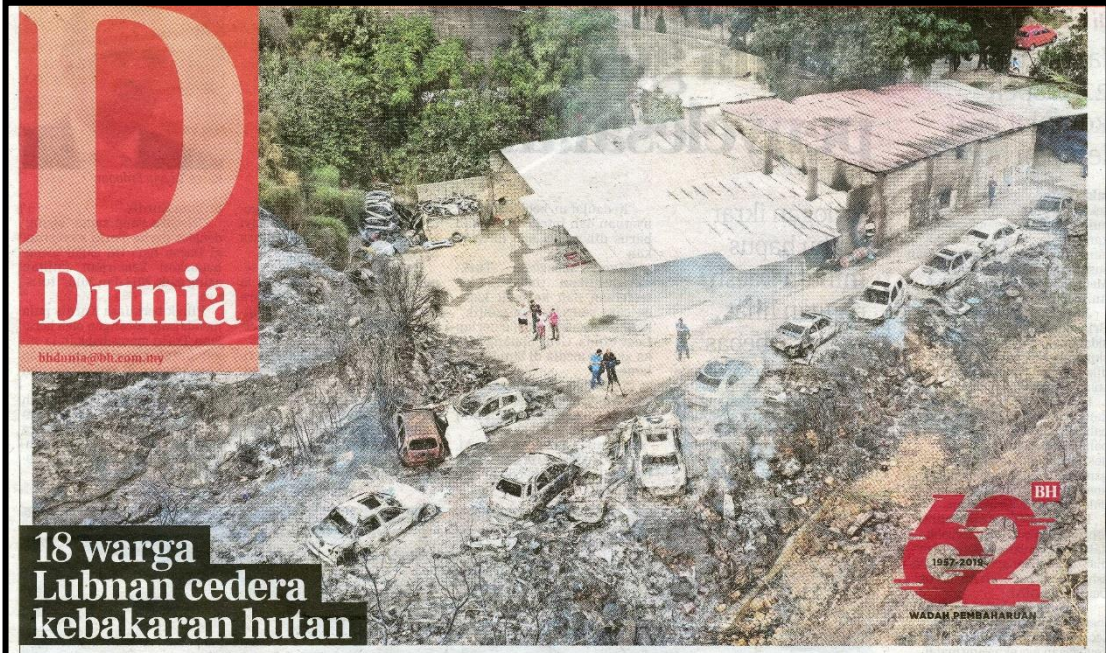
Ultimately, participants have also agreed that we need to adopt a sense of urgency because time is running out.

There are no one-size-fits-all solutions but those that are cost-effective will best encourage countries to act.

The writer is a senior fellow of the Academy of Sciences Malaysia and member of the Governing Council of the Kyoto STS Forum

Accurate predictions regarding climate change were made decades ago, and we know what we need to do and how, however little has been done since then.

LAMPIRAN 8
BERITA HARIAN (DUNIA): MUKA SURAT 79
TARIKH: 16 OKTOBER 2019 (RABU)



Dunia
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18 warga Lubnan cedera kebakaran hutan



Sebaris kereta terbakar di kawasan Al Damour bahagian selatan Beirut, Lubnan, semalam susulan kebakaran hutan yang merebak ke kawasan penghuni, di sini. Sejumlah 18 warga Lubnan, termasuk anggota bomba yang cedera dihantar ke hospital untuk mendapatkan rawatan. (Foto EPA)

Jerebu kembali jadi igauan

Indonesia keluar amaran, sekolah ditutup, keadaan kualiti udara tidak sihat

Jakarta: Jerebu yang hilang sejak hampir tiga minggu lalu di Indonesia, kini kembali menjadi igauan kepada penduduk. Semalam, Jakarta mula mengeluarkan amaran keadaan asap akibat pembakaran hutan semakin teruk kepada rakyatnya ketika beberapa wilayah di negara itu sudah mengarahkan sekolah ditutup, susulan keadaan kualiti udara yang tidak sihat. Corak iklim El-Nino, tahun ini diburukkan dengan kebakaran musim kering yang berlaku setiap tahun, berpunca daripada aktiviti pembersihan hutan bagi tujuan

pertanian serta perladangan. Agensi cuaca Indonesia menerusi kenyataan berkata, jumlah tompok panas di beberapa bahagian di Sumatera dan Borneo sudah meningkat sejak minggu lalu meskipun hujan lebat, sambil memberi amaran penduduk perlu berwaspada dengan asap itu. Katanya, sejumlah 1,547 tompok panas yang menunjukkan kebakaran atau peningkatan risiko kebakaran dikesan di enam wilayah dan menambah asap dari kebakaran mungkin menjejaskan lebih banyak wilayah yang bergantung kepada arah angin. Namun kenyataan itu tidak menyebut mengenai potensi asap itu yang merentas sempadan. Jerebu tebal akibat kebakaran hutan yang merebak ke negara-negara jiran pada musim kering, hujung bulan lalu sehingga mencetuskan ketegangan diplomatik antara Indonesia dan Malaysia. Beberapa sekolah yang dibuka semula selepas kualiti udara

semakin baik, terpaksa ditutup semula minggu ini. Agensi berita Antara melaporkan bahawa pihak berkuasa di Palembang terpaksa menutup sekolah selama tiga hari dari Isnin sehingga hari seterusnya jika keadaan tidak berubah. Selain itu, penduduk dinasihatkan memakai topeng semasa keluar dari rumah. Gambar yang dirakamkan dari udara, kelmarin menunjukkan Palembang dilanda jerebu berwarna kuning tebal yang dipaparkan di halaman akhbar Jakarta Post, semalam. Menurut jurucakap pegawai kerajaan, Abu Bakar yang dipetik Antara melaporkan, Jambi iaitu sebuah bandar lain di Sumatera terpaksa menutup tadika selama tiga hari. "Ia sebagai langkah perlindungan terhadap asap, semua pelajar, guru dan kakitangan pentadbiran digesa memakai topeng semasa di sekolah dan dalam perjalanan ke sekolah," katanya. REUTERS



Gambar yang dirakamkan, kelmarin menunjukkan Palembang dilanda jerebu berwarna kuning tebal dipaparkan akhbar Jakarta Post, semalam. (Foto REUTERS)



LAMPIRAN 9
THE STAR (STAR WORLD): MUKA SURAT 29
TARIKH: 15 OKTOBER 2019 (RABU)

UK climate activists target financial firms

LONDON: Climate activists targeted BlackRock, the world's biggest asset manager, here on Monday, demanding major financial institutions starve fossil fuel firms of money to build mines, wells and pipelines. Extinction Rebellion, which uses civil disobedience to highlight risks posed by climate change, is midway through a two-week wave of actions worldwide. Activists here unfurled banners, addressed passers-by by megaphone and blocked streets near BlackRock, Bank of England, Bank of China and Barclays. Police arrested more than 90 people.

LAMPIRAN 10
NEW STRAIT TIMES (WORLD): CHOKING ON SMOG MUKA SURAT: 56
TARIKH: 16 OKTOBER 2019 (RABU)

