

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

Bil	Berita	Media	Capaian Berita Penuh
1.	<u>Govt to reactivate MyPower as part of industry reform [NSTTV]</u> Energy, Technology, Science, Climate Change and Environment Minister Yeo Bee Yin said MESI 2.0 aims to accomplish three agendas – to increase industry efficiency, future-proof the industry structure, regulations and key processes as well as empower consumers, democratise and decentralise the electricity supply industry.	New Straits Times	Klik pada tajuk berita
2.	<u>Govt to reactive MyPower for MESI 2.0 initiative</u> MyPower stands for Malaysia Programme Office for Power Electricity Reform, an independent company limited by guarantee to be set up under the Energy, Technology, Science, Climate Change and Environment Ministry to design and drive implementation of this reform programme.	The Star	Rujuk lampiran 1
3.	<u>'Electricity reform agency to be set up'</u> Energy, Science, Technology, Climate Change and Environment Minister Yeo Bee Yin said the government would set up a special agency called MyPower Corp to roll out the initiative.	New Straits Times	Rujuk lampiran 2
4.	<u>Electricity subsidy for 179,000 households</u> Energy, Technology, Science, Climate Change and Environment Minister Yeo Bee Yin said the subsidy was for the under-privileged.	New Straits Times	Rujuk lampiran 3
5.	<u>'Impartial consultants only for EIA'</u> A Penang Forum member has called on the Energy, Technology, Science, Climate Change and Environment Minister Yeo Bee Yin to appoint independent consultants to conduct the Environmental Impact Assessment (EIA) reports on the Penang Transport Master Plan (PTMP).	The Sun Daily	Rujuk lampiran 4

6.	<u>No to nuclear energy, yes to coal from E. M'sia, says PM</u> In July, Energy, Green Technology, Science, Climate Change and Environment Minister Yeo Bee Yin had similarly stressed that Putrajaya does not plan to build nuclear power plants or explore nuclear energy, while regulatory agency Malaysia Nuclear Power Corporation will be shut down soon.	Malay Mail	Rujuk lampiran 5
7.	<u>CEPSI 2018</u> Prime Minister, Tun Dr Mahathir Mohamad at the Conference of the Electric Power Supply Industry 2018 in Kuala Lumpur yesterday.	New Straits Times	Rujuk lampiran 6
8.	<u>20pc target of RE efficiency may take longer than expected/ Govt upbeat on achieving 20pc R.E goal</u> The 20 per cent target of renewable energy efficiency from the current two per cent may take longer than expected, says Energy, Science, Technology, Environment and Climate Change Minister Yeo Bee Yin.	New Straits Times	Rujuk lampiran 7 atau klik pada tajuk berita
9.	<u>Electricity industry to undergo transformation with MESI 2.0</u> Energy, Science, Technology, Environment and Climate Change Minister Yeo Bee Yin said the government would set up a special agency called MyPower Corp to roll out the initiative.	New Straits Times	Klik pada tajuk berita
10.	<u>CEPSI 2018 tumpuan industri tenaga dunia</u> Perdana Menteri, Tun Dr. Mahathir Mohamad turut menyampaikan ucapan khas, manakala Menteri Tenaga, Teknologi, Sains, Perubahan Iklim dan Alam Sekitar, Yeo Bee Yin menyampaikan ucap tama pada perasmian persidangan tersebut yang dihadiri Pengerusi TNB, Tan Sri Leo Moggie dan Presiden dan Ketua Pegawai Eksekutif TNB yang juga Presiden AESIEAP 2017-2018, Datuk Seri Ir. Azman Mohd.	Utusan Malaysia	Rujuk lampiran 8 atau klik pada tajuk berita

11.	<u>Govt to reactivate MyPower as part of industry reforms</u> Energy, Technology, Science, Climate Change and Environment Minister Yeo Bee Yin said MESI 2.0 aims to accomplish three agendas – to increase industry efficiency, future-proof the industry structure, regulations and key processes as well as empower consumers, democratise and decentralise the electricity supply industry.	The Borneo Post	Klik pada tajuk berita
12.	<u>Awer: Revoke direct-award power deals first before reforming industry</u> Even as Minister of Energy, Science, Technology, Environment and Climate Change Yeo Bee Yin said her ministry plans to revive MyPower Corp for another round of power industry reform, Association of Water and Energy Research Malaysia (Awer) president S. Piarapakaran urged that previous direct awards of projects be revoked first.	The Sun Daily	Rujuk lampiran 9 atau klik pada tajuk berita
13.	<u>Malaysia to start reform program for electricity industry</u> Govt seeks to increase industry efficiency, reduce govt intervention and increase transparency in reforming electricity sector, Minister of Energy, Technology, Science, Climate Change and Environment Yeo Bee Yin speaks at conference in Kuala Lumpur.	The Edge Market	Klik pada tajuk berita
14.	<u>MESI 2.0 to reform domestic electricity supply industry</u> Its minister Yeo Bee Yin told reporters at a press conference after the opening ceremony of the Conference of the Electric Power Supply Industry (Cepsi) 2018 that the Malaysia programme office for power electricity reform (MyPower) will be "re-activated" to drive and design the initiative.	The Sun Daily	Klik pada tajuk berita
15.	<u>Malaysia won't use nuclear power, says Dr M [NSTTV]</u> Also present was Minister of Energy, Technology, Science and Environment, Yeo Bee Yin, and Tenaga Nasional Bhd chairman Tan Sri Leo Moggie.	New Straits Times	Rujuk lampiran 10 atau klik pada tajuk berita

16.	<u>Malaysia tolak nuklear jana elektrik</u> Yang turut hadir, Menteri Tenaga, Teknologi, Sains, Perubahan Iklim dan Alam Sekitar, Yeo Bee Yin serta Pengerusi Tenaga Nasional Berhad (TNB), Tan Sri Leo Moggie.	Berita Harian	Rujuk lampiran 11
17.	<u>Industri bekalan elektrik perlu berubah</u> Yang hadir sama, Menteri Tenaga, Sains, Teknologi, Alam Sekitar dan Perubahan Iklim, Yeo Bee Yin serta Presiden dan Ketua Pegawai Eksekutif TNB, Datuk Seri Ir. Azman Mohd.	Utusan Malaysia	Rujuk lampiran 12 atau klik pada tajuk berita
18.	<u>Nuke power a no-go in M'sia</u> Also present were Energy, Science, Technology, Environment and Climate Change Minister Yeo Bee Yin and Tenaga Nasional Berhad chairman Tan Sri Leo Moggie.	The Star	Rujuk lampiran 13 atau klik pada tajuk berita
19.	<u>Lynas rare-earth plant important to Malaysia: Australian High Commissioner</u> He said during a recent meeting, Energy, Green Technology, Science, Climate Change and Environment Minister Yeo Bee Yin had given her assurance that any decision made by the government would be based on facts and evidences.	New Straits Times	Klik pada tajuk berita
20.	<u>First-ever BMW i8 Roadster unveiled</u> The i8 Roadster's unveiling was officiated by the Minister of Energy, Science, Technology, Environment and Climate Change Yeo Bee Yin who was a special guest at the landmark conference.	The Sun Daily	Klik pada tajuk berita
21.	<u>Skim subsidi elektrik baharu untuk bantu golongan miskin tegar</u> Satu skim subsidi elektrik baharu akan diperkenalkan bagi membantu golongan miskin tegar, kata Menteri Tenaga, Sains, Teknologi, Alam Sekitar dan Perubahan Iklim, Yeo Bee Yin.	Kosmo	Klik pada tajuk berita
22.	<u>Skim subsidi elektrik bantu miskin tegar</u> Kerajaan akan memperkenalkan skim subsidi elektrik baharu untuk membantu golongan miskin	Berita Harian	Rujuk lampiran 14

	tegar, kata Menteri Tenaga, Teknologi, Sains, Perubahan Iklim dan Alam Sekitar, Yeo Bee Yin.		
23.	<u>Kerajaan lancar MESI 2.0, mahu tingkat kecekapan industri elektrik</u> Menteri Tenaga, Teknologi, Sains, Perubahan Iklim dan Alam Sekitar, Yeo Bee Yin, berkata sehubungan itu, bagi melancarkan pelaksanaan pembaharuan berkenaan, pihaknya akan mengaktifkan semula agensi tujuan khas, MyPOWER Corporation bagi menggerak dan melaksanakan inisiatif berkenaan.	Berita Harian	Klik pada tajuk berita
24.	<u>Industri bekalan tenaga perlu ikuti teknologi semasa/ Industri tenaga perlu ikut perkembangan teknologi</u> Yang turut hadir Perdana Menteri, Tun Dr Mahathir Mohamad; Menteri Tenaga, Teknologi, Sains, Perubahan Iklim dan Alam Sekitar, Yeo Bee Yin dan Presiden dan Ketua Pegawai Eksekutif TNB, Datuk Seri Ir Azman Mohd.	Berita Harian	Rujuk lampiran 15 atau klik pada tajuk berita
25.	<u>Subsidi elektrik untuk miskin tegar</u> Menteri Tenaga, Sains, Teknologi, Alam Sekitar & Perubahan Iklim, Yeo Bee Yin berkata, pengumuman berkenaan dijangka dibuat dalam tempoh beberapa minggu lagi.	Utusan Malaysia	Rujuk lampiran 16 atau klik pada tajuk berita
26.	<u>Skim subsidi bil elektrik untuk miskin tegar</u> Menteri Tenaga, Teknologi, Sains, Perubahan Iklim dan Alam Sekitar, Yeo Bee Yin berkata, mereka yang menerima skim ini mestilah berdaftar di bawah program e-Kasih.	Sinar Harian	Klik pada tajuk berita
27.	<u>Sains belum mampu kawal nuklear – PM</u> Yang turut hadir, Menteri Tenaga, Teknologi, Sains, Perubahan Iklim dan Alam Sekitar, Yeo Bee Yin serta Pengerusi Tenaga Nasional Berhad (TNB), Tan Sri Leo Moggie.	Berita Harian	Klik pada tajuk berita
29.	<u>Polisi bebas nuklear perlu diterus</u> Yang turut hadir ialah Menteri Tenaga, Sains, Teknologi, Alam Sekitar dan Perubahan Iklim,	Utusan Malaysia	Rujuk lampiran 17 atau klik pada tajuk berita

	Yeo Bee Yin dan Pengerusi Tenaga Nasional Berhad (TNB), Tan Sri Leo Moggie.		
29.	<u>Putrajaya says no to nuclear energy, but keen on coal from East Malaysia</u> In July, Energy, Green Technology, Science, Climate Change and Environment Minister Yeo Bee Yin had similarly stressed that Putrajaya does not plan to build nuclear power plants or explore nuclear energy, while regulatory agency Malaysia Nuclear Power Corporation will be shut down soon.	Malay Mail	Klik pada tajuk berita
30.	<u>Malaysia tolak nuklear</u> Turut hadir, Menteri Tenaga, Sains, Teknologi, Perubahan Iklim dan Alam Sekitar, Yeo Bee Yin serta Pengerusi Tenaga Nasional (TNB), Tan Sri Leo Moggie.	Harian Metro	Rujuk lampiran 18
31.	<u>Penggunaan tenaga nuklear di Malaysia pada tahap minimum</u> Pakar nuclear negara, Dr. Noor Hasnah Mohamed Khairullah, berkata, tatacara penggunaannya juga dipantau bawah Akta Pelesenan Tenaga Atom (Akta 304) oleh Lembaga Perlesenan Tenaga Atom (AELB).	Kosmo	Rujuk lampiran 19
32.	<u>Tidak akan guna tenaga nuclear</u> Turut hadir Menteri Tenaga, Teknologi, Sains, Perubahan Iklim dan Alam Sekitar, Yeo Bee Yin dan Pengerusi TNB, Tan Sri Leo Moggie.	Kosmo	Rujuk lampiran 20
33.	<u>Penerima e-Kasih dapat subsidi baharu bekalan elektrik</u> Menteri Tenaga, Teknologi, Sains, Perubahan Iklim dan Alam Sekitar, Yeo Bee Yin berkata, pengumuman tersebut dijangka dibuat dalam tempoh beberapa minggu lagi.	Kosmo	Rujuk lampiran 21
34.	<u>New Electricity Subsidy Scheme to assist hardcore poor</u> A new electricity subsidy scheme will be introduced to assist the hardcore poor, say	BERNAMA	Klik pada tajuk berita

	Energy, Science, Technology, Environment and Climate Change Minister Yeo Bee Yin.		
35.	<u>Govt to reactivate MyPower as part of industry reforms</u> Energy, Technology, Science, Climate Change and Environment Minister Yeo Bee Yin said MESI 2.0 aims to accomplish three agendas – to increase industry efficiency, future-proof the industry structure, regulations and key processes as well as empower consumers, democratise and decentralise the electricity supply industry.	BERNAMA	Klik pada tajuk berita
36.	<u>Skim subsidi elektrik baru untuk bantu miskin tegar</u> Satu skim subsidi elektrik baharu akan diperkenalkan bagi membantu golongan miskin tegar, kata Menteri Tenaga, Sains, Teknologi, Alam Sekitar dan Perubahan Iklim, Yeo Bee Yin.	Malaysia Kini	Klik pada tajuk berita
37.	<u>Skim subsidi bil elektrik untuk miskin tegar</u> Menteri Tenaga, Teknologi, Sains, Perubahan Iklim dan Alam Sekitar, Yeo Bee Yin berkata, mereka yang menerima skim ini mestilah berdaftar di bawah program e-Kasih.	Astro Awani	Klik pada tajuk berita
38.	<u>Electricity subsidies for poor to be announced soon</u> The government is set to announce new electricity subsidies for the hardcore poor within the next few weeks, Energy, Technology, Science, Climate Change and Environment Minister Yeo Bee Yin said today.	Malaysia Kini	Klik pada tajuk berita
39.	<u>Bill on energy efficiency conservation to be introduced next year</u> The government hopes to come out with a legislation on energy efficiency conservation next year, said Energy, Science, Technology, Environment and Climate Change Minister, Yeo Bee Yin.	The Edge Market	Klik pada tajuk berita
40.	<u>Penang Forum fears highway project will proceed despite objections</u>	Free Malaysia Today	Klik pada tajuk berita

	“We hope that under her leadership the DoE will be more responsible,” she said referring to Energy, Science, Technology, Environment and Climate Change Minister Yeo Bee Yin.		
41.	<u>IChemE chair meets Malaysian minster to promote expert input</u> Phang met with Yeo Bee Yin, a chemical engineer who was made energy minister in July, to advise that the discipline is best placed to advise the ministry on some of its key areas of focus including renewable energy, energy efficiency, and reducing the use of plastics with bio-degradable substitutions.	The Chemical Engineer	Klik pada tajuk berita
42.	<u>Malaysia sets new goal of 18% clean energy generation by 2030</u> Minister Yeo Bee Yin said her ministry is having a series of meeting to ensure the national grid is prepared to cater for this renewable energy generation mix, as well as to study the policies to meet its target.	The Edge Market	Klik pada tajuk berita
43.	<u>Bill on energy efficiency conservation to be introduced next year</u> The government hopes to come out with a legislation on energy efficiency conservation next year, said Energy, Science, Technology, Environment and Climate Change Minister, Yeo Bee Yin.	The Edge Market	Klik pada tajuk berita
44.	<u>Yeo Bee Yin: Government reactivating MyPower to reform electricity industry</u> Energy, Science, Technology, Environment and Climate Change Minister Yeo Bee Yin said today that under the Malaysia Energy Supply Industry (MESI) 2.0 (MESI 2.0) programme, MyPower will focus on three objectives.	The Edge Market	Klik pada tajuk berita
45.	<u>Govt to reactivate MyPower as part of industry reform</u> THE government will reactivate special purpose agency MyPower for three years as part of the Malaysia Energy Supply Industry (MESI) 2.0 reform programme.	The Malaysian Insight	Klik pada tajuk berita

46.	<u>Potensi besar pasaran kenderaan elektrik negara</u> "Kita mulakan projek ini di California, Amerika Syarikat (AS) bagi meletakkan pasaran kenderaan elektrik",katanya.	Berita Harian	Rujuk lampiran 22
47.	<u>Fenomena cuaca garis badai punca ribut melanda Perlis</u> Pengarah Pusat Operasi Cuaca dan Geofizik Nasional Jabatan Meteorologi Malaysia (MetMalaysia), Dr. Mohd. Hisham Mohd. Anip berkata, garis badai yang merupakan keadaan di mana jajaran awan ribut petir berada dalam satu garisan berlaku apabila angin kencang dari Laut Andaman bertembung dengan angin perlahan di utara Selat Melaka.	Kosmo	Rujuk lampiran 23

TEMPATAN

Bil	Berita	Media	Capaian Berita Penuh
48.	<u>TNB to work closely with MyPower for industry reform</u> Tenaga Nasional Bhd (TNB) will work closely with MyPower, the special-purpose agency to be set up by the government for energy industry reform, to reduce the people's perception that it is a monopoly, said Chief Executive Officer Datuk Seri Azman Mohd.	The Edge Market	Klik pada tajuk berita
49.	<u>Tiada rancangan bangunkan loji nuklear di Malaysia - Tun M</u> Beliau berkata walaupun kos pengeluaran tenaga menerusi kuasa nuklear adalah jauh lebih murah, namun kita masih kurang pengetahuan untuk mengendalikannya, terutamanya cara yang paling selamat untuk melupuskan sisa nuklear.	Kosmo	Klik pada tajuk berita
50.	<u>Penapis karbon aktif sebagai penapis/ Rawat air dengan kuasa solar</u>	Kosmo	Rujuk lampiran 24 atau klik pada tajuk berita

	MENjalankan program rawatan air bersih untuk penduduk Orang Asli di Tasik Banding, Perak telah memberi idea kepada pasukan penyelidik dari Jabatan Kejuruteraan, Universiti Tenaga Nasional (Uniten) untuk menghasilkan Alat Rawatan Air Berkuasa Solar (S-WAD).		
51.	<u>'Disruptive tech the way to go'</u> Policy-makers have been urged to re-examine their regulatory framework to make way for more disruptions in the energy industry towards ensuring economic viability, energy security and conservation of the environment.	New Straits Times	Rujuk lampiran 25
52.	<u>TNB to work closely with MyPower for industry reform</u> He said the utility giant has a lot of ideas and experience to contribute to the industry reforms in line with the government's Malaysia Energy Supply Industry (MESI) 2.0 programme.	The Sun Daily	Rujuk lampiran 26 atau klik pada tajuk berita
53.	<u>TNB to work closely with MyPower for industry reform</u> He said the utility giant has a lot of ideas and experience to contribute to the industry reforms in line with the government's Malaysia Energy Supply Industry (MESI) 2.0 programme.	The Star	Rujuk lampiran 27
54.	<u>TNB akan bekerjasama rapat dengan MyPower</u> Beliau berkata, utiliti gergasi itu mempunyai banyak idea dan pengalaman untuk menyumbang kepada pembaharuan industri sejajar dengan program Industri Bekalan Tenaga Malaysia (MESI) 2.0 kerajaan.	Utusan Malaysia	Rujuk lampiran 28 atau klik pada tajuk berita
55.	<u>Fostering interest in STEM</u> The Mentor-Mentee programme involved the Pejabat Pendidikan Daerah Alor Gajah and Jabatan Pendidikan Negeri Melaka – the first of such conducted on campus, in conjunction with STEM Day.	The Sun Daily	Rujuk lampiran 29
56.	<u>Industri sumber tenaga, petrokimia perlu utamakan pendigitalan</u>	Berita Harian	Rujuk lampiran 30 atau klik pada tajuk berita

	Permintaan yang tinggi dalam sumber tenaga dan industri petrokimia di negara kelas pertengahan seperti Malaysia menjadikan aspek tranformasi pendigitalan sangat penting supaya industri ini kekal berdaya maju dan terkehadapan.		
57.	<u>Tamak punca pencemaran alam sekitar</u> Kerakusan segelintir pihak mengejar keuntungan sehingga mengetepikan aspek penjagaan alam sekitar menjadi punca utama kemusnahan alam, sehingga berlaku pemanasan global, pencemaran air, udara dan tanah serta peningkatan pembuangan sisa pepejal.	Berita Harian	Klik pada tajuk berita

ANTARABANGSA

Bil	Berita	Media	Capaian Berita Penuh
58.	<u>Jerman perkenal kereta api hydrogen</u> Jerman memperkenalkan kereta api hidrogen pertama di dunia sekali gus memberi isyarat permulaan untuk mencabar penguasaan kereta api menggunakan diesel yang mencemarkan alam sekitar.	Utusan Malaysia	Klik pada tajuk berita
59.	<u>Bilionair Jepun bakal menjadi pelancong pertama kelilingi Bulan</u> Firma Amerika Syarikat (AS), SpaceX mengumumkan kelmarin bahawa Maezawa yang merupakan pengasas kedai pakaian online terbesar Jepun, Zozotown, mahu menyertai program itu pada tahun 2023.	Kosmo	Rujuk lampiran 31
60.	<u>Boosting AI to benefit world</u> The president said China is willing to share development opportunities in the digital economy with other countries and called for joint efforts in promoting AI for the benefit of mankind.	The Star	Rujuk lampiran 32

61.	<u>Basics of blockchain</u> After all, blockchain's entrance into the mainstream was catalysed by the granddaddy of cryptocurrencies - Bitcoin.	The Star	Rujuk lampiran 33
62.	<u>Australia's rank on global development index hurt by climate change inaction</u> Australia's commitment to global development has improved over the past year, driven by strong trade, education and finance outreach to the developing world, but it has been criticised for its poor action on the environment and climate change.	The Guardian	Klik pada tajuk berita
63.	<u>European nations plan to use more hydrogen for energy needs</u> Dozens of European countries are backing a plan to increase the use of hydrogen as an alternative to fossil fuels to cut the continent's carbon emissions.	CNBC	Klik pada tajuk berita
64.	<u>Coalition won't replace renewables target after it winds down in 2020</u> The energy minister, Angus Taylor, says the Morrison government will not be replacing the renewable energy target "with anything" after it winds down in 2020.	The Guardian	Klik pada tajuk berita
65.	<u>£36m for Swansea research on power-generating buildings</u> The technology, using heat and light to make electricity, could replace conventional walls, roofs and windows. The power could be used in homes, workplaces, schools and hospitals, with the energy stored and released by "smart energy systems".	BBC News	Klik pada tajuk berita

LAMPIRAN 1
THE STAR (NEWS): MUKA SURAT 5
TARIKH: 19 SEPTEMBER 2018 (RABU)



Yeo: This is an agency that will be closed in three years, so they have 36 months of mandate to drive, implement and close shop.

Govt to reactivate MyPower for MESI 2.0 initiative

KUALA LUMPUR: The government will reactivate special-purpose agency MyPower Corp for three years as part of the Malaysia Energy Supply Industry (MESI) 2.0 initiative.

MyPower stands for Malaysia Programme Office for Power Electricity Reform, an independent company limited by guarantee to be set up under the Energy, Technology, Science, Climate Change and Environment Ministry to design and drive implementation of this reform programme.

Minister Yeo Bee Yin said MESI 2.0 aimed to accomplish three agendas – to increase industry efficiency; future-proof the industry structure, regulations and key processes; as well as empower consumers, democratise and decentralise the electricity supply industry.

“We will also come out with a series of

reforms, such as MESI 3.0 and so on, and continuously have meetings to determine what would be the agenda for each reform,” Yeo said.

She was speaking at a press conference after officiating at the Conference of the Electric Power Supply Industry 2018.

Yeo said the government is confident that Malaysia's electricity supply industry transformation programme in areas such as future generation – which includes green energy and electricity energy efficiency and grid for the future – would enhance customer experience as well as propel the country forward.

She said MyPower, with 12 to 20 employees, is tasked with engaging with industry players as well as stakeholders for the indus-

try reforms, and the company is expected to close once it completed its mission.

“This is an agency that will be closed in three years, so they have 36 months of mandate to drive, implement and close shop,” she said.

“We believe that renewable energy is in the present, and although we have not reached great parity in electricity storage together with the technology, we believe that in a very short time we will reach great parity.

“That means early adoption of renewable energy will help us and the industry to be more competitive.

“It will also help us to be a first mover in the region, and hopefully our companies will be empowered to also do business outside Malaysia,” Yeo said. — Bernama

LAMPIRAN 2

NEW STRAITS TIMES (GENERATING ENERGY): MUKA SURAT 3
TARIKH: 19 SEPTEMBER 2018 (RABU)

‘Electricity reform agency to be set up’

KUALA LUMPUR: The electricity industry is set to undergo a transformation through the implementation of the Malaysia Electricity Supply Industry (MESI) 2.0 reforms aimed at enhancing the domestic electricity supply industry.

Energy, Science, Technology, Climate Change and Environment Minister Yeo Bee Yin said the government would set up a special agency called MyPower Corp to roll out the initiative.

She said the agency, comprising 10 to 20 energy industry experts, would operate only for 36 months following the conclusion of MESI 2.0.

“The government will act as a driver, but the prime movers of this transformation are the local experts and professionals.

“Meetings and discussions will be held with stakeholders to assist the government in implementing this,” Yeo said at a press conference after the launch of the Conference of the Electric Power Supply Industry 2018 at the Kuala Lumpur Convention Centre here yesterday.

Present were Tenaga Nasional Bhd chairman Tan Sri Leo Moggie and president and chief executive officer Datuk Seri Azman Mohd.

“The government will act as a driver, but the prime movers of this (electricity industry) transformation are the local experts and professionals.”

YEO BEE YIN

Energy, science, technology, climate change and environment minister

“Through MESI 2.0, we aim to achieve three objectives — to increase industry efficiency, regulate industry structure and key processes, and empower consumers.

“Upon completion of the reforms, we expect the market structure to be more transparent and efficient, as well as have more costly tariffs based on market conditions,” Yeo said.

LAMPIRAN 3
NEW STRAITS TIMES (NATION/ NEWS): MUKA SURAT 5
TARIKH: 19 SEPTEMBER 2018 (RABU)

HARDCORE POOR

ELECTRICITY SUBSIDY FOR 179,000 HOUSEHOLDS

Govt to announce
scheme for those
registered under
e-Kasih soon

SUZANNA PILLAY
AND SITI NUR MAS ERAH AMRAN
KUALA LUMPUR
cnews@nstp.com.my



Yeo Bee Yin

The government will announce an electricity subsidy scheme for 179,000 heads of households registered under the e-Kasih programme soon.

Energy, Technology, Science, Climate Change and Environment Minister Yeo Bee Yin said

the subsidy was for the underprivileged.

"This aid is for the hardcore poor.

"We hope to implement it as soon as possible.

"The details are being fine-tuned and will be announced soon."

Yeo said this after officiating

the Conference of the Electric Power Supply Industry (Cepsi) 2018.

The conference with the theme "Reimagining Utility of the Future" was hosted by Tenaga Nasional Bhd on behalf of the Association of the Electricity Supply Industry of East Asia and Western Pacific.

The conference attracted 2,000 participants and 4,500 investors.

On another matter, Yeo said the Energy Efficiency Supply Bill would be tabled in Parliament next year.

"The supply bill will be formulated in the middle of next month.

"We will complete it as soon as possible for tabling."

LAMPIRAN 4

THE SUN (NEWS WITHOUT BORDERS): MUKA SURAT 6
TARIKH: 19 SEPTEMBER 2018 (RABU)

'Impartial consultants only for EIA'

> Yeo urged to ensure PTMP environmental impact report done independently

BY IAN MCINTYRE
newsdesk@thesundaily.com

GEORGE TOWN: A Penang Forum member has called on the Energy, Technology, Science, Climate Change and Environment Minister Yeo Bee Yin to appoint independent consultants to conduct the Environmental Impact Assessment (EIA) reports on the Penang Transport Master Plan (PTMP).

Such consultants should not be beholden to any party in a particular project which requires an EIA study of the entire project, said Dr Kam Suan Pheng, a retired academician from Universiti Sains Malaysia.

She said on many occasions civil society proponents here through the Penang Forum have found many technical flaws in the EIA reports.

It is because the consultants are hired by parties who have specific interests in the projects, namely from developers who have won the bid for mega projects which require the EIA input.

Kam said that EIA approval was also processed fast, citing the example of the phase two reclamation project off Straits Quay, which was approved within two weeks of the closure of its public display moratorium period.

She said that the EIA reports need to be conducted by those

with an independent outlook, and it must be comprehensive, taking into account the socio-economic, cultural and heritage elements of any proposed project.

Forum compatriots, Khoo Salma Nasution and Lim Gaik Siang, also spoke of pressure from third parties on private institutions of higher learning telling them not to get involved in the PTMP discourse.

Lim said that a school headmistress was warned by the state education authorities not to allow the students to take home literature related to the Penang Forum's opposition to the master plan.

Earlier, another forum luminary Dr Lim Mah Hui said that the present model of the master plan will not resolve the state's worsening traffic.

He said that the only solution was an effective public transport system which moves people and not road vehicles.

"When more highways are built, more vehicles would naturally populate the roads, clogging up the roads eventually. The answer is a public transport system."

The forum also announced that a town hall meeting would be held between Yeo, Chief Minister Chow Kon Yeow and the forum tomorrow.

Khoo encouraged residents to come out and voice their grievances.

LAMPIRAN 5
MALAY MAIL (TOP NEWS): MUKA SURAT 3
TARIKH: 19 SEPTEMBER 2018 (RABU)

**No to
nuclear
energy, yes
to coal from
E. M'sia,
says PM**

KUALA LUMPUR — Prime Minister Tun Dr Mahathir Mohamad has rejected the use of nuclear energy to generate electricity, adding that more understanding of the alternative power source is needed.

He said this was because Malaysia had "a lot of bad experience" with handling radioactive materials, and as such, called for an in-depth study, to prevent any untoward incidents from happening.

"In Malaysia, we generate electricity by burning fuel, coal and other sources. What we don't believe in, is generating electricity using nuclear power," he said when opening the 22nd Conference of the Electric Power Supply Industry (CEPSI) 2018.

"That was the stand of the government when I was the fourth prime minister, but unfortunately, not the stand of the fifth and sixth [prime ministers].

"But now, I'm back," he added to thunderous applause from the audience.

In July, Energy, Green Technology, Science, Climate Change and Environment Minister Yeo Bee Yin had similarly stressed that Putrajaya does not plan to build nuclear power plants or explore nuclear energy, while regulatory agency Malaysia Nuclear Power Corporation will be shut down soon.

Despite that, the prime minister reiterated his support for locally-sourced fossil fuel like coal, saying more can be done with it.

"We have a lot of coal resources, not only in Batu Arang, but in Sabah and Sarawak as well. I think we should exploit local coal resources rather than keep importing," he added.

He earlier gave an example as to how Malaysia's once-booming demand for tin tailings dwindled, after an alternative material was found.

The switch in demand, he lamented, forced the government to negotiate with tailings companies to get rid of the tin waste, as it was found to be highly radioactive.

"After they found other ways to substitute the tailings, we found a huge supply of unused material and we had to negotiate with the companies to get rid of them as they were activated and high in radiation.

"We then had to bury the tin tailings in a one-square-kilometre land," he added.

LAMPIRAN 6
NEW STRAITS TIMES (NEWS): MUKA SURAT 2
TARIKH: 19 SEPTEMBER 2018 (RABU)



LAMPIRAN 7
NEW STRAITS TIMES (NEWS/ BUSINESS): MUKA SURAT 21
TARIKH: 19 SEPTEMBER 2018 (RABU)

CEPSI 2018

GOVT UPBEAT ON ACHIEVING 20pc R.E. GOAL

Clean energy target reachable in 12 years, if not by 2025, says minister

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MEETING the 20 per cent renewable energy (RE) generation target may take longer than expected, said Energy, Science, Technology, Environment and Climate Change Minister Yeo Bee Yin.

Speaking to the media after the opening of the Conference of the Electric Power Supply Industry 2018 (CEPSI 2018), Yeo said the government was confident of

achieving the 20 per cent target in 12 years.

"Our goal is to achieve the 20 per cent target by 2025, but even if we don't, I am confident that by 2030, we would be able to reach it.

"However, I would like to stress that the RE target should not take priority over energy affordability. The affordability and adoption of RE should be balanced and not be at the expense of the other.

"We are conducting talks on this and figuring out how to get our grid ready. We will make the announcement when the time comes," she said in response New Straits Times' query on the feasibility and achievability of the target set for the next seven years.

The Pakatan Harapan government, in its election manifesto, has pledged to increase the country's electricity from RE sources

Energy, Science, Technology, Environment and Climate Change Minister Yeo Bee Yin (centre) with Tenaga Nasional Bhd (TNB) chairman Tan Sri Leo Moggie (right) and chief grid officer Datuk Ho Peng Choong at the exhibition area during the Conference of the Electric Power Supply Industry (CEPSI) 2018 in Kuala Lumpur yesterday. PIC BY ASYRAF HAMZAH

to 20 per cent by 2025 from two per cent currently, and make it affordable and accessible in Malaysia.

It pledged to enforce strict logging quotas to conserve the forest, implement regulations to protect wildlife and marine life, take punitive action against poachers and illegal loggers and reduce dependence on coal power plants.

It also promised to reduce carbon emissions by 40 per cent by

2020.

On the government's stance on independent power producers (IPPs), Yeo said it planned to further liberalise the generation of electricity and avoid direct IPP tendering.

"On the generation side, it was already liberalised. But... there were a lot of direct tenders and direct IPP awards.

"If the IPP awards were open tenders and efficient, then our electricity generation would have

already been liberalised. What we don't have it right now is decentralisation of electricity generation," she added.

In July, Yeo said the government had cancelled four IPP contracts while continuing to review contracts of other IPPs.

She said many of the IPPs had been approved through direct negotiations and awards and the government had decided to review the contracts, especially those with no-cost implications.



LAMPIRAN 8

UTUSAN MALAYSIA (DALAM NEGERI): MUKA SURAT 5

TARIKH: 19 SEPTEMBER 2018 (RABU)



DR. MAHATHIR MOHAMAD hadir menyampaikan ucapan tema sempena penganturan CEPSI 2018 diiringi Yeo Bee Yin (kanan) dan Leo Moggie di Pusat Konvensyen Kuala Lumpur, semalam. - UTUSAN /AMIR KHALID



YEO BEE YIN (dua dari kiri), Azman Mohd. (kiri), Leo Moggie (dua dari kanan) menyempurnakan perasmian CEPSI 2018 sambil diperhatikan Ketua Pegawai Korporat TNB, Datuk Wira Roslan Ab. Rahman di Pusat Konvensyen Kuala Lumpur, semalam.

CEPSI 2018 tumpuan industri tenaga dunia

Oleh MOHD. AZRAIE MD. YUSOF
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■ KUALA LUMPUR 18 SEPT.

MALAYSIA mencatat sejarah apabila sekali lagi menjadi tuan rumah Persidangan Industri Bekalan Kuasa Elektrik (CEPSI) 2018 dengan dihadiri kira-kira 2,000 delegasi dari dalam dan luar negara.

CEPSI adalah persidangan tenaga dan bekalan elektrik terbesar yang pernah dianjurkan di Malaysia selepas kali terakhir menganjurkannya pada 1996.

Tahun ini merupakan persidangan kali ke-22 sejak diadakan buat pertama kali pada 1976 di Hong Kong.

Membawa tema *Reimagining Utility of The Future*, persidangan dwitahunan itu dianjurkan oleh Tenaga Nasional Berhad (TNB) mewakili Persatuan Industri Bekalan Elektrik Asia Timur dan Pasifik Barat (AESIEAP) bermula semalam hingga 22 September ini di Pusat Konvensyen Kuala Lumpur, di sini.

Perdana Menteri, Tun Dr. Ma-



KETUA Pegawai Grid TNB, Datuk Ir. Ho Peng Choong (kiri) memberi taklimat mengenai operasi TNB kepada Yeo Bee Yin (dua dari kiri) yang melawat gerai pameran CEPSI 2018.

hathir Mohamad turut menyampaikan ucapan khas, manakala Menteri Tenaga, Teknologi, Sains, Perubahan Iklim dan Alam Sekitar, Yeo Bee Yin menyampaikan ucapan tema pada perasmian persidangan tersebut yang dihadiri Pengerusi TNB, Tan Sri Leo Moggie dan Presiden dan Ketua Pegawai Eksekutif TNB yang juga

Presiden AESIEAP 2017-2018, Datuk Seri Ir. Azman Mohd.

CEPSI merupakan medan kepada pemimpin-pemimpin industri utama dari seluruh dunia bagi membincangkan isu-isu mengenai industri kuasa seperti cabaran, strategi, kemampanan, teknologi serta masa depan tenaga.



AZMAN MOHD. (dua dari kanan) bersalaman dengan Naib Presiden Kanan Manila Electric Company (Meralco), Ronnie L. Aperoco yang dipilih menjadi penganjur CEPSI 2020 di Filipina. Turut kelihatan, Roslan Ab. Rahman (kiri) dan Pengerus Besar Kanan Bahagian Strategi dan Regulatori TNB, Loo Kok Seng.

Seramai 17 penceramah berprofil tinggi bakal berkongsi pendapat dan pengetahuan berkaitan isu tenaga dan membincangkan amalan terbaik terhadap isu penting seperti trend dan perubahan global, kemudahan masa depan, kelestarian, inovasi serta masa depan pintar bagi industri

bekalan elektrik.

Selain pembentangan kira-kira 550 kertas kerja teknikal, persidangan kali ini turut disertai 100 pempamer dalam kalangan pemain-pemain industri, sekaligus mewujudkan rangkaian bermakna dalam kalangan perwakilannya dari lebih 30 negara.



SEBAHAGIAN delegasi yang hadir dalam majlis perasmian CEPSI 2018 di Pusat Konvensyen Kuala Lumpur, semalam.



YEO BEE YIN (dua dari kanan) mencuba gajet realiti maya (VR) ketika melawat gerai pameran CEPSI 2018.

LAMPIRAN 9
THE SUN (SUNBIZ): MUKA SURAT 11
TARIKH: 19 SEPTEMBER 2018 (RABU)

Revoke direct-award power deals first: Awer

> Reform of the industry can be done only after cancelling questionable contracts, says NGO

BY V. RAGANANTHINI
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KUALA LUMPUR: Even as Minister of Energy, Science, Technology, Environment and Climate Change Yeo Bee Yin said her ministry plans to revive MyPower Corp for another round of power industry reform, Association of Water and Energy Research Malaysia (Awer) president S. Piarapakaran urged that previous direct awards of projects be revoked first.

Speaking to *SunBiz*, Piarapakaran said the government should settle baggage from Malaysia Electricity Supply Industry (MESI 1.0) in terms of shelving all direct negotiation contracts and questionable contract awards before initiating MESI 2.0. He also called on the government to name the independent power producers whose contracts were cancelled, in accordance with the previous announcement.

"The industry is already properly structured. It is just that the transparency part is lacking and when they award these projects, many of them go through direct negotiations.

"You cannot jump a few steps ahead by not solving the existing problems. All the direct negotiations that were given, you have not put a balancing factor into the tariffs," Piarapakaran said.

He opined that Malaysia does not need another MESI, but instead needs to firm up the current model to promote transparency in terms of cost structure and improve efficiency as well as ensuring the right people are helming MyPower.

"The current model is quite a win-win model. The only thing lacking in the



ADIB RAWI YAHYA/
THESUN

Yeo trying out one of the gadgets at the exhibition in conjunction with Cepsi 2018 in Kuala Lumpur yesterday.

current model is transparency in terms of tariff setting and the regulatory mechanisms," he said, adding that tariffs should not be politicised, but government involvement in terms of regulation is needed.

Yeo, speaking at a press conference after the opening ceremony of the Conference of the Electric Power Supply Industry 2018 (Cepsi 2018) yesterday, said her ministry will conduct a six- to eight-month study to firm up the dynamics of the revival of MyPower Corp, which will be manned by between 12 and 20 people. However, she did not elaborate on the leadership for MyPower.

Yeo said MyPower will be entrusted with increasing the industry's efficiency, future-proof industry structure regulations and key processes, as well as empowering customers by democratising and decentralising the electricity supply industry for three years.

MyPower drove reforms under MESI 1.0, under the helm of former Energy Commission chairman Datuk Abdul Razak Majid.

After the reform, Yeo said, the domestic electricity industry is expected to be efficient, transparent,

market-based, competitive, sustainable and be more prepared to move towards renewable energy.

She said the electricity tariff is unlikely to be increased after MESI 2.0.

Currently, fuel prices are a major determinant of electricity tariffs, accounting for two-thirds of the pricing mechanism.

MESI 2.0 is likely to see greater utilisation of market-based competition across the value chain, reduced government intervention, increased transparency, adoption of more cost reflective and time-based tariffs and targeted subsidies for those in need.

"We are not saying the government will not be intervening. If we have a competitive market based structure it will be the more cost-effective tariff for the people. We need to depoliticise the industry which cannot be done without reform because there is room for improvement in our market structure and operation," she said.

On another note, Yeo said the government will announce a new electricity subsidy scheme for the lower income group comprising the 179,000 people registered under e-kasih in the next few weeks.

LAMPIRAN 10
NEW STRAITS TIMES (GENERATING ENERGY): MUKA SURAT 3
TARIKH: 19 SEPTEMBER 2018 (RABU)

GENERATING ENERGY

'We won't use nuclear power'

Science has yet to discover ways to address nuke waste, radiation, says PM

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MALAYSIA will not use nuclear power plants to generate energy, as science has yet to find ways to manage nuclear waste and the effects of radiation, says Prime Minister Tun Dr Mahathir Mohamad.

Dr Mahathir said there had been numerous incidents related to nuclear use worldwide, such as in Chernobyl, Ukraine, and the latest in Fukushima, Japan, which led to people suffering from radiation.

Malaysia, he said, would continue

to rely on fuel sources to generate electricity, such as fossil fuel, coal, hydroelectric dams and wind power, which he said were stable and environment-friendly.

"There are two things that I am against. Smokers are not allowed to come near me and nuclear is not the solution to generating electric-

ity," he said in his keynote address at the launch of the Conference of the Electric Power Supply Industry 2018 at the Kuala Lumpur Convention Centre here yesterday.

Present were Energy, Science, Technology, Climate Change and Environment Minister Minister Yeo Bee Yin and Tenaga Nasional Bhd



17-22 SEPTEMBER 2018
KUALA LUMPUR CONVENTION CENTRE
KUALA LUMPUR, MALAYSIA

www.cepsi2018kl.org

Hosted by:



chairman Tan Sri Leo Moggie.

Dr Mahathir said the country's fifth and sixth prime ministers might have agreed to nuclear energy, but remarked that "now I am back".

He said despite advancements in science, a solution to nuclear radiation and waste had yet to be discovered. He said it was based on these factors that Malaysia rejected the use of nuclear energy despite it being cheaper than fossil fuel.

Malaysia, he said, had a "bad experience" with amang, a type of irradiated ore once used to make colour televisions.

"Amang needs to be activated before it is used. This, however, led to problems in the form of residue, which is radioactive.

"The radiation effects triggered fear among the people. We don't want a repeat of this. Eventually, we agreed to bury this substance in an area which was 1 sq km large.

"We had to bury it under thick cement to prevent the radiation

from affecting people."

He said Malaysia lost 1 sq km of land as the area was still not safe, which also led to losses in terms of areas meant for development.

Dr Mahathir also touched on developments in the transportation sector, and said the price of electric cars could be double that of conventional vehicles.

One of the issues in the electric car market, he said, was the durability of the batteries, which as of now, could only power the vehicle for a maximum of 200km on a full charge.

"We could perhaps merge ICE (internal combustion engine) and an electric-based engine to tackle the battery durability issue.

"These are all in the research and development phase, so I hope it will be successful, thus helping Malaysia enter a new automotive industry era," he said. **Additional reporting by Luqman Arif Abdul Karim**

LAMPIRAN 11 BERITA HARIAN: MUKA SURAT 2 TARIKH: 19 SEPTEMBER 2018 (RABU)



Dr Mahathir bergambar bersama pemimpin industri, eksekutif kanan, pegawai kerajaan dan profesional dari Asia Timur, Pasifik Barat serta rantau lain pada Persidangan Industri Saluran Kuasa Elektrik (CEPSI) 2018 di Pusat Konvensyen Kuala Lumpur, semalam.

Malaysia tolak nuklear jana elektrik

➔ Sains masih belum mampu urus isu bahan buangan, kesan radiasi: PM

Oleh Manirajan Ramasamy,
Hazwan Faisal Mohamed
dan Luqman Arif
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➔ Kuala Lumpur

Malaysia tidak akan menggunakan nuklear untuk menjana elektrik kerana sains hingga kini belum mampu menguruskan isu bahan buangan dan kesan radiasi, kata Tun Dr

Mahathir Mohamad.

Perdana Menteri berkata, pelbagai insiden susulan penggunaan nuklear tercetus di seluruh dunia, termasuk Jepun dan Chernobyl, Ukraine yang menyaksikan penduduk dibelenggu masalah kesan radiasi.

Bergantung kaedah sedia ada
Sehubungan itu, beliau menegaskan, Malaysia akan terus bergantung kepada kaedah sedia ada dalam penjanaan tenaga elektrik, iaitu menerusi bahan api fosil, empangan dan angin yang lebih stabil serta mesra alam sekitar.

"Ada dua benda berkaitan saya yang semua orang tahu, iaitu perokok tidak dibenarkan ada berdekatan dengan saya dan nuklear bukan penyelesaian tenaga elektrik.

"Perdana Menteri kelima dan keenam mungkin ada pendirian berbeza, tetapi kini saya sudah kembali," katanya pada ucapan pener-

rasman Persidangan Industri Pembekalan Tenaga Elektrik (CEPSI) 2018, semalam.

Yang turut hadir, Menteri Tenaga, Teknologi, Sains, Perubahan Iklim dan Alam Sekitar, Yeo Bee Yin serta Pengerusi Tenaga Nasional Berhad (TNB), Tan Sri Leo Moggie.

Persidangan tujuh hari, mulai kelmarin hingga 23 September ini di Pusat Konvensyen Kuala Lumpur (KLCC), di sini, disifatkan medan untuk Malaysia meningkatkan kecekapan dalam pengurusan tenaga elektrik dan isu berkaitan.

Dr Mahathir berkata, ledakan kemajuan sains hingga kini belum berupaya menangani kesan kebolehan radiasi dan merangka langkah terbaik untuk melupuskan bahan buangan daripada nuklear.

Kepincangan itu, katanya, adalah antara faktor Malaysia menentang peralihan tenaga berasaskan nuklear yang walaupun kos peng-

gunaannya murah, namun mengundang pelbagai kesan sampingan.

"Malaysia mempunyai pengalaman buruk daripada penggunaan amang, iaitu sejenis bahan hitam yang digunakan untuk menghasilkan warna dalam televisyen suatu masa dulu.

"Amang perlu diaktifkan terlebih dulu sebelum boleh digunakan, namun masalah timbul daripada lebih bahan berkenaan angkara industri penghasilan televisyen mempunyai kaedah lain untuk menghasilkan warna.

Radiasi cetus kebimbangan

"Kesan radiasi amang berleluasa sehingga mencetuskan kebimbangan dalam kalangan masyarakat ketika itu, justeru kita tidak mahu insiden sama berulang.

"Langkah menanam amang dalam tanah dan ditutup dengan lapisan simen yang tebal juga me-

ngundang isu lain, termasuk kegundahan kawasan untuk tujuan pembangunan," katanya.

Menyentuh kemungkinan kemajuan sektor pengangkutan, Dr Mahathir berkata, unjuran mendapati harga pasaran kereta elektrik mungkin dua kali ganda berbanding kenderaan konvensional.

Katanya, isu lain dalam pasaran kereta elektrik ialah ketahanan bateri kenderaan berkenaan yang setakat ini hanya mampu beroperasi sejauh 200 kilometer berdasarkan kuasa janaan penuh.

"Mungkin kita boleh gabungkan ICE (pembakaran enjin dalaman) dan enjin berasaskan tenaga elektrik supaya masalah ketahanan bateri berupaya ditangani.

"Semua ini masih dalam fasa kajian dan pembangunan, justeru saya harap ia bakal menempa kejayaan sekali gus menyaksikan Malaysia melangkah ke alam industri automotif baharu," katanya.

LAMPIRAN 12
UTUSAN MALAYSIA (DALAM NEGERI): MUKA SURAT 4
TARIKH: 19 SEPTEMBER 2018 (RABU)

Industri bekalan elektrik perlu berubah

KUALA LUMPUR 18 Sept. - Industri bekalan elektrik perlu memanfaatkan teknologi dan idea baharu supaya dapat berkembang selari dengan pertumbuhan pesat landskap industri.

Pengerusi Tenaga Nasional Bhd. (TNB), Tan Sri Leo Moggie berkata, selama bertahun-tahun pembangunan teknologi telah mengubah industri daripada sistem mekanikal kepada sistem data, digital dan fizikal siber.

Katanya, kemajuan dalam tenaga utama akan memerlukan pembuat dasar dalam bidang kuasa berbeza untuk menyemak semula peranan bagi rangka kerja pengawalseliaan masing-masing.

"Kita melihat trend mega dan gangguan teknologi membawa pelbagai peluang baharu, namun teknologi juga menghasilkan peserta baharu yang boleh mempercepatkan perubahan landskap.



LEO MOGGIE

"Justeru, penggunaan teknologi bersama rangka kerja pengawalseliaan baharu adalah caranya untuk mencapai sasaran kemapanan tenaga ke arah memastikan daya maju ekonomi, keselamatan tenaga dan pemuliharaan alam sekitar," katanya.

Beliau berkata demikian ketika menyampaikan ucapan alu-aluan dalam Persidangan Industri Bekalan Tenaga Elek-

trik (CEPSI) 2018 kali ke-22 di sini hari ini.

Perdana Menteri, Tun Dr. Mahathir Mohamad turut hadir menyampaikan ucapan pada persidangan berkenaan.

Yang hadir sama, Menteri Tenaga, Sains, Teknologi, Alam Sekitar dan Perubahan Iklim, Yeo Bee Yin serta Presiden dan Ketua Pegawai Eksekutif TNB, Datuk Seri Ir. Azman Mohd.

Moggie berkata, industri bekalan tenaga memainkan peranan kritikal dalam pembangunan ekonomi dan sosial negara termasuk menyediakan keperluan asas seperti lampu serta keselesaan.

"Saya percaya sebahagian besar daripada kita akan menghadapi masalah sekiranya tiada bekalan elektrik dalam hanya masa yang singkat, ia telah menjadi sebahagian daripada hidup kita," katanya.

LAMPIRAN 13
THE STAR (NATION): MUKA SURAT 2
TARIKH: 19 SEPTEMBER 2018 (RABU)

Nuke power a no-go in M'sia

PM: Radioactive waste hard to manage as we previously discovered

By HEMANANTHANI SIVANANDAM
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KUALA LUMPUR: The use of nuclear power as an alternative to generate electricity is a no-go, under the current administration.

Prime Minister Tun Dr Mahathir Mohamad said Malaysia is against nuclear power being used to produce electricity as science has not been able to provide a safe way to dispose of the radioactive waste generated.

He said although nuclear plants are a cheap alternative to fossil fuels for producing electricity, they are still not safe.

"A lot of people wanted to have nuclear power when I stepped down but I am against it as it generates radiation.

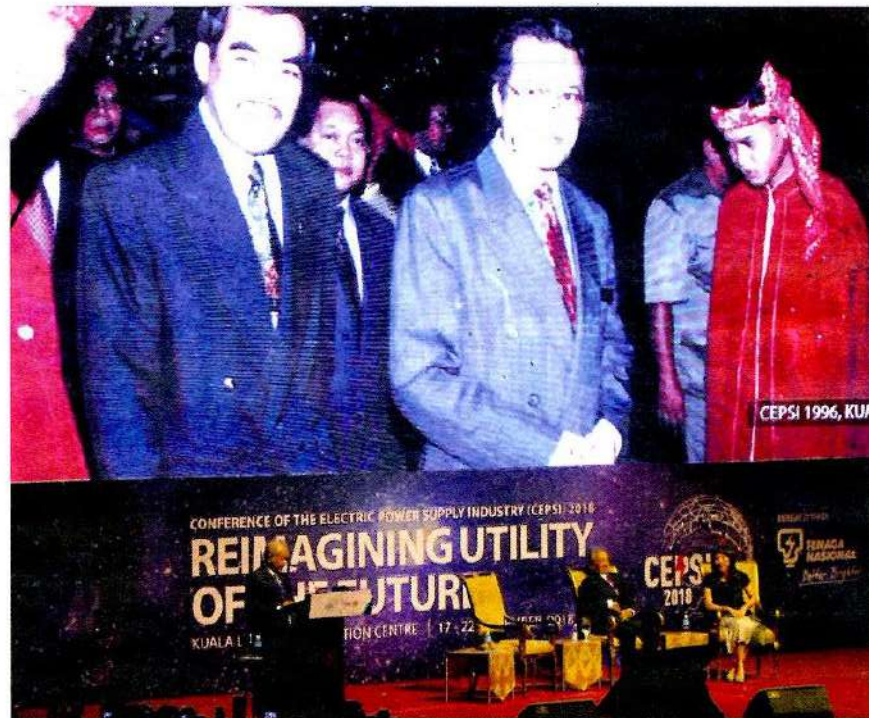
"We produce tin and *amang* (tin tailings, which has heavy metals), a substance that was used to produce colour televisions. Later, people found other ways to produce colour TVs without using *amang*.

"*Amang* has to be activated to be useful but is radioactive.

"When companies no longer wanted it, we were left with activated *amang* residue," he said in his keynote address at the Conference of the Electric Power Supply Industry (CEPSI 2018) event yesterday.

Also present were Energy, Science, Technology, Environment and Climate Change Minister Yeo Bee Yin and Tenaga Nasional Berhad chairman Tan Sri Leo Moggie.

Dr Mahathir said the government then had to find measures to ensure the *amang* residue would not cause



Towards a better future: Moggie delivering his speech during CEPSI 2018 at the Kuala Lumpur Convention Centre as Dr Mahathir and Yeo look on.

harm and it was then buried in a 1km square area under thick cement to contain any radiation leak.

"We lost a big piece of land because it was not safe for it to be used. So that was our experience with radioactive materials," he added.

The Prime Minister said it taught the then administration that radioactive waste was not easily dis-

posed of, adding that even science has not found a good way to manage such wastes.

"That is why we decided not to use nuclear power in Malaysia. That was the policy during my time as the fourth PM; it was not the policy for the fifth and sixth prime minister but now I am back," he quipped.

Giving an example of Japan, Dr Mahathir said the country often

faced problems with radiation during earthquakes.

He said that some people living in areas with nuclear plants do not go back due to the radiation.

Dr Mahathir also cited the Chernobyl disaster as an example.

Watch the video
thestartv.com



LAMPIRAN 14 BERITA HARIAN (PERSIDANGAN): MUKA SURAT 3 TARIKH: 19 SEPTEMBER 2018 (RABU)

Skim subsidi elektrik bantu miskin tegar

179,000 ketua isi rumah berdaftar dalam sistem eKasih terima manfaat

Oleh Hazwan Faisal
Mohamad dan Siti Nur
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Kuala Lumpur

Kerajaan akan memperkalkan skim subsidi elektrik baharu untuk membantu golongan miskin tegar, kata Menteri Tenaga, Teknologi, Sains, Perubahan Iklim dan Alam Sekitar, Yeo Bee Yin.

"Pengumuman mengenainya akan dibuat dalam tempoh terdekat dan skim ini akan memanfaatkan 179,000 ketua isi rumah yang berdaftar dalam sistem eKasih," katanya.

Bee Yin berkata, skim subsidi elektrik itu dikhususkan untuk golongan sasar dan akan dilaksanakan secepat mungkin.

"Perincian berhubung skim ini

sedang dikemaskini dan akan diumumkan dalam masa terdekat," katanya selepas perasmian Persidangan Industri Bekalan Elektrik (CEPSI 2018) di sini, semalam.

Bertemakan 'Reimagining Utility of the Future', persidangan enam hari itu dihoskan Tenaga Nasional Bhd (TNB) bagi pihak Persatuan Industri Bekalan Elektrik Asia Timur dan Pasifik Barat.

Dalam perkembangan lain, Bee Yin berkata, Rang Undang-Undang Kecelakaan Tenaga bakal dibentangkan dalam sesi Parlimen pada pertengahan tahun hadapan.

MyPower diaktifkan semula

"Rang undang-undang berkenaan akan dirangka pada pertengahan Oktober dan kita akan siapkan secepat mungkin untuk dibentangkan nanti," katanya.

Sementara itu, Bee Yin berkata, kerajaan akan mengaktifkan se-

mula agensi tujuan khas, MyPower, untuk tiga tahun sebagai sebahagian daripada inisiatif Pembaharuan Industri Bekalan Tenaga Malaysia (MESI) 2.0. Agensi itu akan dianggotai antara 10 hingga 20 pakar industri tenaga.

"Kerajaan akan bertindak sebagai pemacu, namun penggerak utama transformasi ini ialah pakar dan profesional tempatan. Banyak pertemuan dan perbincangan akan diadakan bersama pemegang kepentingan bagi membantu kerajaan melaksanakan perkara ini.

Jamin harga tarif kekal

"Menerusi MESI 2.0 ini, kita menyasar untuk mencapai tiga objektif iaitu mahu meningkatkan kecukupan industri, mengawal selia struktur industri, peraturan dan proses utama serta memperkasakan pengguna.

"Selepas berakhir pembaharuan

ini, kita menjangkakan struktur pasaran lebih telus dan cekap serta kos tarif yang lebih mengikut keadaan pasaran," katanya sambil menambah beliau memberi jaminan harga tarif tidak akan meningkat apabila MESI 2.0 dilaksanakan.

"Harga tarif ketika ini sering berubah kerana ia sangat bergantung kepada harga bahan api global," katanya.

Dalam pada itu, lebih 4,500 pelawat dijangka mengunjungi pelbagai gerai yang disediakan oleh lebih 100 pempamer sempena CEPSI 2018 bertempat di Pusat Konvensyen KL.

Dengan tema Reimagining Utility of the Future, persidangan itu dihoskan Tenaga Nasional Bhd (TNB) bagi pihak Persatuan Industri Bekalan Elektrik Asia Timur dan Pasifik Barat (AESIEAP).

CEPSI 2018 mengumpulkan pe-

mimpin utama industri dari seluruh dunia untuk melihat beberapa isu penting industri seperti cabaran, strategi, kemampanan, teknologi dan masa depan yang berkaitan dengan tenaga.

Persidangan dwitahunan itu bertujuan membolehkan peserta tenaga di Asia Timur dan Pasifik Barat membincangkan isu tenaga.

CEPSI 2020 pula akan diadakan di Filipina manakala China akan menjadi tuan rumah bagi CEPSI 2022.

Naib Presiden Kanan Manila Electric Company (Meralco), Ronnie L. Aperocho, berkata beliau teruja kerana negaranya diberi peluang menjadi hos bagi persidangan berprestij itu.

"Kami tidak sabar untuk mengalu-alukan kedatangan peserta ke Manila," katanya pada sidang media selepas Mesyuarat Majlis EXCO CEPSI 2018, semalam.



Bee Yin diiringi Moggie (kanan) melawat ruang pameran selepas merasmikan Persidangan Industri Bekalan Elektrik di Kuala Lumpur, semalam.

[FOTO ASYRAF HAMZAH / BH]

LAMPIRAN 15
BERITA HARIAN (PERSIDANGAN): MUKA SURAT 3
TARIKH: 19 SEPTEMBER 2018 (RABU)

'Industri tenaga perlu ikut perkembangan teknologi'

Kuala Lumpur: Industri bekalan tenaga perlu sentiasa mengikuti perkembangan teknologi semasa dan menghasilkan idea baharu bagi memastikan mereka terus berdaya saing di pasaran.

Pengerusi Tenaga Nasional Bhd (TNB), Tan Sri Leo Moggie, berkata sebagai antara industri utama negara, sektor bekalan tenaga memainkan peranan penting dalam pembangunan ekonomi dan sosial.

Katanya, ia membekalkan masyarakat dengan keperluan asas seperti cahaya, keselesaan dan kehangatan dan beliau percaya sebahagian besar masyarakat akan bergelut jika tiada bekalan elektrik biarpun dalam tempoh singkat. Ini menunjukkan bahawa bekalan elektrik kini menjadi sebahagian penting dalam hidup masyarakat.

"Sepanjang tahun, kita juga melihat bagaimana perkembangan teknologi telah mengubah landskap industri daripada majoriti

menggunakan sistem mekanikal kepada sistem berasaskan data, digital dan fizikal siber.

Peluang baharu

"Malah, strategi integrasi menegak secara tradisional digunakan sebelum ini dalam syarikat tenaga juga sedang mempelajari penggunaan dan kesan strategi integrasi melintang berpandukan teknologi yang sedang muncul ketika ini.

"Kita melihat trend mega dan gangguan teknologi menyumbang kepada banyak peluang baharu dan menarik. Bagaimanapun, teknologi turut mewujudkan peserta baharu yang boleh memacu dan mengubah landskap industri, dalam usaha memenuhi jangkaan baharu pelanggan untuk mendapatkan perkhidmatan lebih baik pada kadar kompetitif.

"Kerana itu industri ini perlu bersedia dengan mengikuti perkembangan teknologi dan meng-



Teknologi turut mewujudkan peserta baharu yang boleh memacu dan mengubah landskap industri, dalam usaha memenuhi jangkaan baharu pelanggan untuk mendapatkan perkhidmatan lebih baik pada kadar kompetitif"

Leo Moggie,
Pengerusi Tenaga Nasional Bhd

hasilkan idea baharu bagi memastikan kita terus berdaya saing di pasaran," katanya menyampaikan ucapan alu-aluan pada Persidangan Industri Bekalan Tenaga Elektrik (CEPSI) 2018 di Pusat Konvensyen Kuala Lumpur, di sini, semalam.

Perdana Menteri, Tun Dr Mahathir Mohamad hadir memberikan ucapan pada persidangan itu. Yang turut hadir, Menteri Tenaga, Teknologi, Sains, Perubahan Iklim dan Alam Sekitar, Yeo Bee Yin dan Presiden merangkap Ketua Pegawai Eksekutif TNB, Datuk Seri Ir Azman Mohd.

Mengulas lanjut, Moggie berkata, kemajuan dalam teknologi tenaga utama memerlukan pembuat dasar di Malaysia menyemak semula peranan rangka kerja kawal selia masing-masing.

"Kedua-duanya, penggunaan teknologi baharu dan rangka kerja kawal selia yang tepat, adalah kae-

dah mencapai sasaran kemapanan tenaga termasuk memastikan kebolehlaksanaan ekonomi, keselamatan tenaga dan pemeliharaan alam sekitar," katanya.

Manfaatkan persidangan

Menyentuh mengenai persidangan dan pameran bermula kelmarin hingga 23 September, Moggie yakin ia menyediakan peluang sebenar kepada industri untuk berkongsi dan bertukar pandangan dalam mendepani cabaran semasa dan masa depan industri seperti tenaga boleh diperbaharui dan hijau, perubahan iklim, alam sekitar, grid pintar, logistik untuk kereta elektrik, runcit dan perkhidmatan pelanggan.

"Semua cabaran ini perlu dilalui industri selain cabaran konvensional dialami seperti penjanaan, transmisi (grid), rangkaian pengedaran dan pemiagaan runcit," katanya.

LAMPIRAN 16
UTUSAN MALAYSIA (UTUSAN BIZ): MUKA SURAT 43
TARIKH: 19 SEPTEMBER 2018 (RABU)

YEO BEE YIN (depan tengah) bersama Leo Moggie (lima dari kiri) dan warga TNB ketika melawat ke pameran TNB pada majlis perasmian Persidangan Industri Bekalan Tenaga Elektrik (CEPSI) 2018 di Pusat Konvensyen Kuala Lumpur, semalam. = UTUSAN/AMIR KHALID



Subsidi elektrik untuk miskin tegar

Oleh AKMYR SYAHAR AZWAR
 ekonom@utusan.com.my

■ KUALA LUMPUR 18 SEPT.

KERAJAAN akan mengumumkan satu skim subsidi baharu bagi menyediakan bekalan elektrik mampu milik untuk golongan miskin tegar.

Menteri Tenaga, Sains, Teknologi, Alam Sekitar & Perubahan Iklim, Yeo Bee Yin berkata, pengumuman berkenaan dijangka dibuat dalam tempoh beberapa minggu lagi.

"Ia hanya bagi golongan benar-benar miskin, untuk seramai 179,000 individu yang berdaftar dengan Pangkalan Data Kemiskin-

an Nasional (eKasih)," ujarnya. Tambah beliau, Kementerian akan membentangkan Rang Undang-undang Pemuliharaan Kecekapan Tenaga di Parlimen men-

YEO BEE YIN

jelang pertengahan tahun depan. "Sementara itu, Pelan Tindakan Cekap Tenaga pula dijangka diumumkan pada Oktober ini," katanya.

Beliau berkata demikian dalam sidang akhbar selepas menyampaikan ucapan perasmian Persidangan Industri Bekalan Tenaga Elektrik (CEPSI) 2018 kali ke-22 di sini hari ini.

Yang turut hadir, Timbalan Menteri Tenaga, Sains, Teknologi, Alam Sekitar & Perubahan Iklim, Isnaraissa Munirah Majlis, Pengerusi Tenaga Nasional Bhd. (TNB), Tan Sri Leo Moggie serta Presiden dan Ketua Pegawai Eksekutif syarikat utiliti itu, Datuk Seri Ir. Azman Mohd.

CEPSI 2018 anjuran TNB bagi

pihak Persatuan Industri Bekalan Elektrik Asia Timur dan Pasifik Barat (AESIEAP) itu menjadi persidangan utiliti tenaga terbesar pernah diadakan di negara ini.

TNB menjangkakan seramai 2,000 delegasi dari dalam dan luar negara dengan kira-kira 4,500 pelawat meluangkan masa di persidangan yang berlangsung hingga Khamis ini.

Yeo berkata, kerajaan juga sedang merangka program Industri Bekalan Elektrik Malaysia (MESI) 2.0 dalam usaha memperbaharui industri bekalan elektrik negara bagi menghadapi perubahan di peringkat global.

Objektifnya termasuklah meningkatkan kecekapan industri, mengukuhkan industri, struktur,

peraturan dan proses utama serta memperkasakan pengguna.

Katanya, Kementerian akan mengaktifkan semula Pejabat Program Malaysia Bagi Pembaharuan Tenaga Elektrik (MyPower) untuk mereka bentuk dan memacu pelaksanaan inisiatif pembaharuan itu.

"MyPower akan menjadi sebuah syarikat bebas dan terhad dengan jaminan Kementerian dan ia akan ditutup dalam masa 36 bulan selepas tamatnya MESI 2.0.

"Dengan pembaharuan ini, industri bekalan elektrik negara dijangka menjadi lebih cekap, telus, berasaskan pasaran, berdaya saing, mapan dan bersedia untuk menuju ke arah tenaga boleh diperbaharui," katanya.

LAMPIRAN 17 UTUSAN MALAYSIA (DALAM NEGERI): MUKA SURAT 4 TARIKH: 19 SEPTEMBER 2018 (RABU)



DR. MAHATHIR MOHAMAD (tengah) bersama sebahagian delegasi Persidangan Industri Bekalan Tenaga Elektrik (CEPSI) di Pusat Konvensyen Kuala Lumpur, semalam. Yang turut serta, Yeo Bee Yin (12 dari kanan) dan Leo Moggie (10 dari kiri). - UTUSAN/AMIR KHALID

Polisi bebas nuklear perlu diterus

Oleh AZMAN IBRAHIM
dan AKMYR SYAHAR AZWAR
pengarang@utusan.com.my

■ KUALA LUMPUR 18 SEPT.

TUN Dr. Mahathir Mohamad berkata, Malaysia perlu meneruskan polisi bebas nuklear bagi menjana kuasa elektrik dengan penggunaan bahan api yang dijamin lebih selamat.

Menurut Perdana Menteri, penggunaan nuklear hanya mendatangkan kemudaratan dan kemusnahan terhadap alam sekitar serta hidupan berikutan pencemaran radiasi.

"Kemajuan sains belum dapat menyelesaikan masalah pelupusan bahan radiasi itu sejak mula dijadikan sebagai sumber tenaga."

DR. MAHATHIR MOHAMAD

Jelasnya, penggunaan bahan api terbukti lebih selamat selain boleh dijana menerusi pelbagai

sumber seperti arang batu, minyak dan tenaga hidro.

"Kita tidak pernah terfikir menggunakan kuasa nuklear. Kemajuan sains belum dapat menyelesaikan masalah pelupusan bahan radiasi itu sejak mula dijadikan sumber tenaga."

"Apa yang kita dapat pelajari daripada pembuangan sisa radiasi ialah ia sukar untuk dimusnahkan," katanya dalam ucapan sempena Persidangan Industri Bekalan Tenaga Elektrik (CEPSI) di Pusat Konvensyen Kuala Lumpur di sini, hari ini.

Yang turut hadir ialah Menteri Tenaga, Sains, Teknologi,

Alam Sekitar dan Perubahan Iklim, Yeo Bee Yin dan Pengerusi Tenaga Nasional Berhad (TNB), Tan Sri Leo Moggie.

Persidangan berkenaan berlangsung selama enam hari sehingga 22 September ini.

Menurut Dr. Mahathir, Malaysia mempunyai pengalaman penggunaan bahan yang mencetuskan radiasi apabila diaktifkan iaitu amang untuk membuat televisyen berwarna.

Bagaimanapun kata Perdana Menteri, bahan itu tidak lagi digunakan ekoran kemajuan teknologi tetapi sisa bahan terse-

but terpaksa dihapuskan.

"Sisa amang tersebut perlu ditanam dalam kawasan seluas satu kilometer persegi yang mewujudkan isu penggunaan kawasan tanah yang luas," ujarnya.

Katanya, kejadian gempa bumi yang memusnahkan loji janakuasa nuklear di Fukushima, Jepun pada suatu masa dahulu juga merupakan contoh kemusnahan kawasan yang dicemari radiasi.

Jelas beliau, banyak wang terpaksa dibelanjakan oleh kerajaan negara itu untuk memulihkan keadaan yang rosak akibat daripada pencemaran radiasi tersebut.

LAMPIRAN 18
HARIAN METRO (SETEMPAT): MUKA SURAT 60
TARIKH: 19 SEPTEMBER 2018 (RABU)

Manirajan Ramasamy,
 Hazwan Faisal Mohamed
 dan Luqman Arif Abdul Karim
 cnews@nstp.com.my

Kuala Lumpur

Nuklear tidak akan digunakan di Malaysia untuk jana tenaga elektrik berikutan sains sehingga kini belum mampu menguruskan isu bahan buangan dan kesan radiasi.

Perdana Menteri Tun Dr Mahathir Mohamad berkata, pelbagai insiden susulan penggunaan nuklear tercetus di seluruh dunia termasuk Jepun dan Chernobyl, Ukraine yang menyaksikan penduduk dibelunggu masalah kesan radiasi.

Sehubungan itu, beliau berkata, Malaysia terus bergantung kepada kaedah sedia ada dalam penjanaan tenaga elektrik iaitu menerusi bahan api fosil, empangan dan angin yang lebih stabil serta mesra alam sekitar.

"Ada dua benda berkaitan saya yang semua orang tahu, iaitu perokok tidak dibenarkan ada berdekatan dengan saya dan nuklear bukan penyelesaian tenaga elektrik."

"Perdana Menteri kelima dan keenam mungkin ada pendirian berbeza, tetapi kini saya kembali," katanya pada ucapatama perasmian Persidangan Industri Pembekalan Tenaga Elektrik (CEPSI) 2018, semalam.

Turut hadir, Menteri Tenaga, Teknologi, Sains, Pe-



DR Mahathir pada ucapatama perasmian Persidangan Industri Pembekalan Tenaga Elektrik (CEPSI) 2018, semalam.

rubahan Iklim dan Alam Sekitar, Yeo Bee Yin serta Pengurus Tenaga Nasional Berhad (TNB), Tan Sri Leo Moggie.

Persidangan tujuh hari, bermula semalam hingga 23 September ini berlangsung di Pusat Konvensyen Kuala Lumpur (KLCC) di sini, disifatkan medan untuk Malaysia meningkatkan kecakapan dalam pengurusan tenaga elektrik dan isu berkaitan.

Dr Mahathir berkata, ledakan kemajuan sains sehingga kini belum berupaya menangani kesan kebocoran radiasi dan merangka langkah terbaik untuk melupus-

kan bahan buangan daripada nuklear.

Kepincangan itu, katanya, antara faktor Malaysia menentang peralihan tenaga berasaskan nuklear yang walaupun kos penggunaannya murah, namun mengundang pelbagai kesan sampingan.

"Malaysia mempunyai pengalaman buruk daripada penggunaan amang, iaitu sejenis bahan hitam yang digunakan untuk menghasilkan warna dalam televisyen suatu masa dulu."

"Amang perlu diaktifkan terlebih dulu sebelum boleh digunakan, namun masalah

Malaysia tolak nuklear

■ Negara jana tenaga elektrik menerusi empangan, bahan fosil lebih selamat, mesra alam

timbul daripada lebihan bahan berkenaan angkara industri penghasilan televisyen mempunyai kaedah lain untuk menghasilkan warna.

"Kesan radiasi amang berleluasa sehingga mencetuskan kebimbangan dalam kalangan masyarakat, justeru kita tidak mahu insiden sama berulang," katanya.

Menyentuh kemungkinan kemajuan sektor pengangkutan, Dr Mahathir berkata, unjuran mendapati harga pasaran kereta elektrik mungkin dua kali ganda berbanding kenderaan konvensional.

Katanya, isu lain dalam

pasaran kereta elektrik ialah ketahanan bateri kenderaan berkenaan yang setakat ini hanya mampu beroperasi sejauh 200 kilometer berdasarkan kuasa janaan penuh.

"Mungkin kita boleh gabungkan ICE (pembakaran enjin dalaman) dan enjin berasaskan tenaga elektrik supaya masalah ketahanan bateri berupaya ditangani."

"Semua ini masih dalam fasa kajian dan pembangunan, justeru saya berharap ia bakal menempa kejayaan sekali gus menyaksikan Malaysia melangkah ke alam industri automotif baru," katanya.

LAMPIRAN 19
KOSMO (NEGARA): MUKA SURAT 6
TARIKH: 19 SEPTEMBER 2018 (RABU)

Penggunaan tenaga nuklear di Malaysia pada tahap minimum

KUALA LUMPUR - Penggunaan tenaga nuklear di negara ini masih terbatas iaitu dalam bidang-bidang seperti perubatan, pertanian dan penyelidikan.

Pakar nuklear negara, Dr. Noor Hasnah Mohamed Khairullah, berkata, tatacara penggunaannya juga dipantau di

bawah Akta Pelesenan Tenaga Atom (Akta 304) oleh Lembaga Pelesenan Tenaga Atom (AELB).

Menurut beliau, agensi berkenaan yang ditubuhkan pada tahun 1985 berada di bawah Jabatan Perdana Menteri.

"Ia bagi memastikan penggunaan teknologi nuklear memberi

manfaat tanpa memberi kesan.

"Sebagai pengguna, kita juga turut akur kepada peraturan yang disyaratkan pada peringkat antarabangsa seperti yang dikeluarkan oleh Agensi Tenaga Atom Antarabangsa. Malaysia menjadi negara anggota sejak tahun 1969," katanya ketika di-

hubungi *Kosmo!* di sini semalam.

Noor Hasnah merupakan bekas Pegawai Penyelidik Kanan yang juga Pengurus Kumpulan Teknologi Radiofarmaseutikal Agensi Nuklear Malaysia.

Beliau berkata demikian bagi mengulas kenyataan Perdana Menteri, Tun Dr. Mahathir Mo-

hamed berhubung penggunaan

nuklear sebagai sumber tenaga.

Kata Noor Hasnah, pematuan sama turut dikenakan ke atas pusat pemprosesan nadi bumi, Lynas Corporation Ltd. (Lynas) di Gebeng, Kuantan, Pahang yang beroperasi sejak tahun 2012.

LAMPIRAN 20
KOSMO (NEGARA): MUKA SURAT 6
TARIKH: 19 SEPTEMBER 2018 (RABU)

Malaysia hanya akan pilih sumber konvensional hasilkan bekalan elektrik

Tidak akan guna tenaga nuklear

Oleh JOHANNA A. SOBREY, IKHWAN
IDERIS, AHMAD MUSTAKIM ZULKIFLI
dan NUR HUDA MUSAA

KUALA LUMPUR - Malaysia kekal dengan polisi tidak akan menggunakan kuasa nuklear bagi menghasilkan tenaga elektrik atas kepentingan keselamatan.

Sebaliknya, negara masih melihat kepada penggunaan sumber konvensional selain berpegang kepada polisi bebas nuklear.

Perdana Menteri, Tun Dr. Mahathir Mohamad menegaskan, penggunaan bahan nuklear terlalu berbahaya kerana risiko radiasi dan pencemaran terhadap alam sekitar dan penduduk.

Tegas beliau, sisa daripada bahan radiasi nuklear amat sukar untuk dilupuskan.

"Sama ada kita tanam di bawah tanah atau buang ke laut, ia mengancam kehidupan."

"Kemajuan sains masih belum



MAHATHIR (tengah) bersama Bee Yin (kanan) dan Moggie selepas majlis perasmian CEPSI 2018 di Kuala Lumpur semalam.



dapat menyelesaikan masalah pelupusan bahan itu sejak ia mula diteroka menjadi sumber tenaga," katanya ketika menyampaikan ucapan pada Persidangan Industri Pembekalan Elektrik (CEPSI) 2018 di Pu-

sat Konvensyen Kuala Lumpur di sini semalam.

CEPSI yang dianjurkan secara tahunan itu dihoskan oleh negara-negara di sekitar rantau Asia Timur dan Pasifik Barat.

CEPSI 2018 yang berlangsung selama enam hari mengumpul penyertaan daripada 2,000 wakil syarikat industri tenaga dan utiliti serta golongan profesional dari seluruh dunia bagi berkongsi kepakaran dan pengalaman mereka dalam mendepani cabaran masa depan industri



IMBAS kembali Mahathir (kiri) bersama Moggie (kanan) menguji kereta yang menggunakan kuasa bateri semasa merasmikan CEPSI pada tahun 1996.

bekalan tenaga elektrik.

Persidangan dwitahunan itu dikelola oleh Tenaga Nasional Berhad (TNB).

Kali terakhir TNB menganjurkan CEPSI ialah pada 1996 yang ketika itu dirasmikan oleh Mahathir selaku Perdana Menteri keempat.

Turut hadir Menteri Tenaga, Teknologi, Sains, Perubahan Iklim dan Alam Sekitar, **Yeo Bee Yin** dan Pengerusi TNB, Tan Sri Leo Moggie.

Tambah Mahathir, Malaysia

mempunyai pengalaman tidak baik dengan radioaktif yang digunakan untuk mengaktifkan amang bagi menghasilkan televisyen berwarna.

Pengalaman yang dimaksudkan oleh Perdana Menteri itu adalah mengenai bahan sisa radioaktif yang dijana oleh loji Bukit Merah Asian Rare Earth yang terletak di Taiping, Perak.

Loji milik Mitsubishi Chemical Industries Limited tersebut telah ditutup pada 1992 untuk kerja-kerja pembersihan.

LAMPIRAN 21
KOSMO (NEGARA): MUKA SURAT 6
TARIKH: 19 SEPTEMBER 2018 (RABU)

Penerima e-Kasih dapat subsidi baharu bekalan elektrik

KUALA LUMPUR – Berita baik buat golongan miskin tegar apabila mereka bakal menerima skim subsidi baharu berkaitan bekalan tenaga elektrik yang akan diperkenalkan kerajaan tidak lama lagi.

Menteri Tenaga, Teknologi, Sains, Perubahan Iklim dan Alam Sekitar, Yeo Bee Yin berkata, pengumuman tersebut dijangka dibuat dalam tempoh beberapa minggu lagi.

“Kami akan mengumumkan skim subsidi baharu buat golongan miskin tegar melibatkan 179,000 individu yang berdaftar di bawah Pangkalan Data Kemiskinan Nasional (eKasih),” katanya.

Beliau berkata demikian pada sidang akhbar selepas menyampaikan ucapan pada

perasmian Persidangan Industri Bekalan Tenaga Elektrik (CEPSI) 2018 di Pusat Konvensyen Kuala Lumpur (KLCC) di sini semalam.

Bee Yin bagaimanapun tidak menyatakan lebih lanjut mengenai jumlah peruntukan yang terlibat nanti.

Dalam pada itu, Bee Yin berkata, kerajaan akan melancarkan inisiatif Pembaharuan Industri Bekalan Elektrik Malaysia 2.0 bagi merevolusikan industri pembekalan tenaga elektrik di negara ini.

Jelasnya, pelaksanaannya selama tiga tahun itu diharapkan dapat menjadikan industri lebih efisien dan kompetitif selain bersedia menghadapi perubahan ke arah penggunaan tenaga boleh diperbaharui.

LAMPIRAN 22
BERITA HARIAN (BISNES): MUKA SURAT 25
TARIKH: 19 SEPTEMBER 2018 (RABU)

Potensi besar pasaran kenderaan elektrik negara



➔ BMW Group jangka lebih banyak rakyat Malaysia pilih EV

Oleh Mohd Zaky Zainuddin
zaky@nstp.com.my

Pasaran kenderaan elektrik di Malaysia berpotensi besar untuk berkembang seperti di negara maju, kata BMW Group.

Ketua Pengurusan Produk BMW i, Dr Alexander Kotous, berkata sebagai pengeluar kenderaan terkemuka dunia, BMW Group menjangka lebih banyak kenderaan elektrik akan menjadi pilihan rakyat Malaysia pada masa akan datang.

"Ia (kenderaan elektrik) adalah sesuatu yang besar untuk pasaran Malaysia dan negara ini boleh menyamai pasaran lain termasuk Norway, yang kini menerima kemasukan kenderaan segmen ini dengan positif.

"Cuma perlu penambahbaikan serta memperkemaskan jaringan infrastruktur untuk menyokong

kenderaan ini. Ia tidak sukar untuk Malaysia menyokong sepenuhnya perkembangan pasaran kenderaan elektrik kerana ia sudah mencatatkan pencapaian luar biasa pada peringkat global," katanya kepada Bisnes NSTP di luar Persidangan Industri Bekalan Tenaga Elektrik 2018 (CEPSI 2018), di Pusat Konvensyen Kuala Lumpur, semalam.

BMW Group menjual 103,000 unit kenderaan elektrik sepenuhnya (BEV) dan plug-in hibrid (PHEV) pada tahun lalu dan menjangkakan jumlah itu menokok kepada 140,000 unit tahun ini.

Pengeluar dari Jerman itu menjangkakan 15 hingga 25 peratus

jumlah jualan global syarikat itu bakal disumbangkan oleh BEV dan PHEV menjelang 2025.

Teknologi baharu

Kotous berkata, BMW Group sudah membangunkan dua model elektrik utamanya, iaitu i8 dan i3, dan pihaknya menjangkakan sejumlah 25 model bakal diperkenalkan menjelang 2025.

"Kami sudah memiliki asas yang kukuh dalam membangunkan kenderaan elektrik premium. Tumpuan utama kami ketika ini adalah membangunkan infrastruktur pengecas jalanan, termasuk pada tiang lampu di

jalan tertentu.

"Kami juga membangunkan pengecas kediaman untuk memudahkan pemilik kenderaan elektrik kami meningkatkan kuasa bateri apabila kenderaan di parkir di rumah.

Menyentuh mengenai teknologi baharu, beliau menjelaskan, BMW Group sedang membangunkan projek penstabilan grid untuk mengitar semula bateri kenderaan elektrik bagi menyepadukan tenaga boleh diperbaharui.

"Kita mulakan projek ini di California, Amerika Syarikat (AS) bagi melestarikan pasaran kenderaan elektrik," katanya.

LAMPIRAN 23 KOSMO (FENOMENA): MUKA SURAT 2 TARIKH: 19 SEPTEMBER 2018 (RABU)

Fenomena cuaca garis badai punca ribut melanda Perlis

KUALA LUMPUR - Kejadian hujan lebat serta angin kencang yang melanda Perlis malam kelmarin disahkan disebabkan fenomena cuaca yang dikenali sebagai garis badai.

Pengarah Pusat Operasi Cuaca dan Geofizik Nasional Jabatan Meteorologi Malaysia (MetMalaysia), Dr. Mohd. Hisham Mohd. Anip (gambar) berkata, garis badai yang merupakan keadaan di mana jajaran awan ribut petir berada dalam satu garisan berlaku apabila angin kencang dari Laut Andaman bertembung dengan angin perlahan di utara Selat Melaka.

Menurut beliau, awan ribut petir yang terbentuk itu bergerak laju dari laut ke darat dan kebiasaannya ia berlaku di Selat Melaka serta di pantai barat Sabah pada waktu ini dan dijangka berakhir sama ada akhir bulan ini atau bulan depan (Oktober).

"Fenomena garis badai lazimnya berlaku pada lewat malam atau awal pagi dan tempoh hayat angin kencang dan hujan lebat adalah singkat berikutan pergerakan dan perubahan awan dari semasa

ke semasa," katanya ketika dihubungi semalam.

Mohd. Hisham berkata demikian bagi mengulas kejadian

ribut serta hujan lebat yang melanda hampir semua kawasan di Perlis malam kelmarin sehingga menyebabkan berlakunya beberapa kemalangan yang meragut nyawa selain kerosakan rumah dan kemudahan awam serta banyak pokok tumbang selain gangguan bekalan elektrik.

Jelas beliau, orang ramai harus sentiasa peka dengan keadaan cuaca semasa dan

mengambil langkah berjaga-jaga dengan berada di tempat yang selamat pada kadar segera, serta tidak mengambil risiko untuk meneruskan pemanduan atau menunggang motosikal ketika cuaca buruk.

"Stesen Meteorologi di Chuping malam kelmarin merekodkan kelajuan angin melebihi 70 kilometer sejam. Kelajuan angin ini berbahaya untuk orang ramai berada di kawasan risiko," katanya.

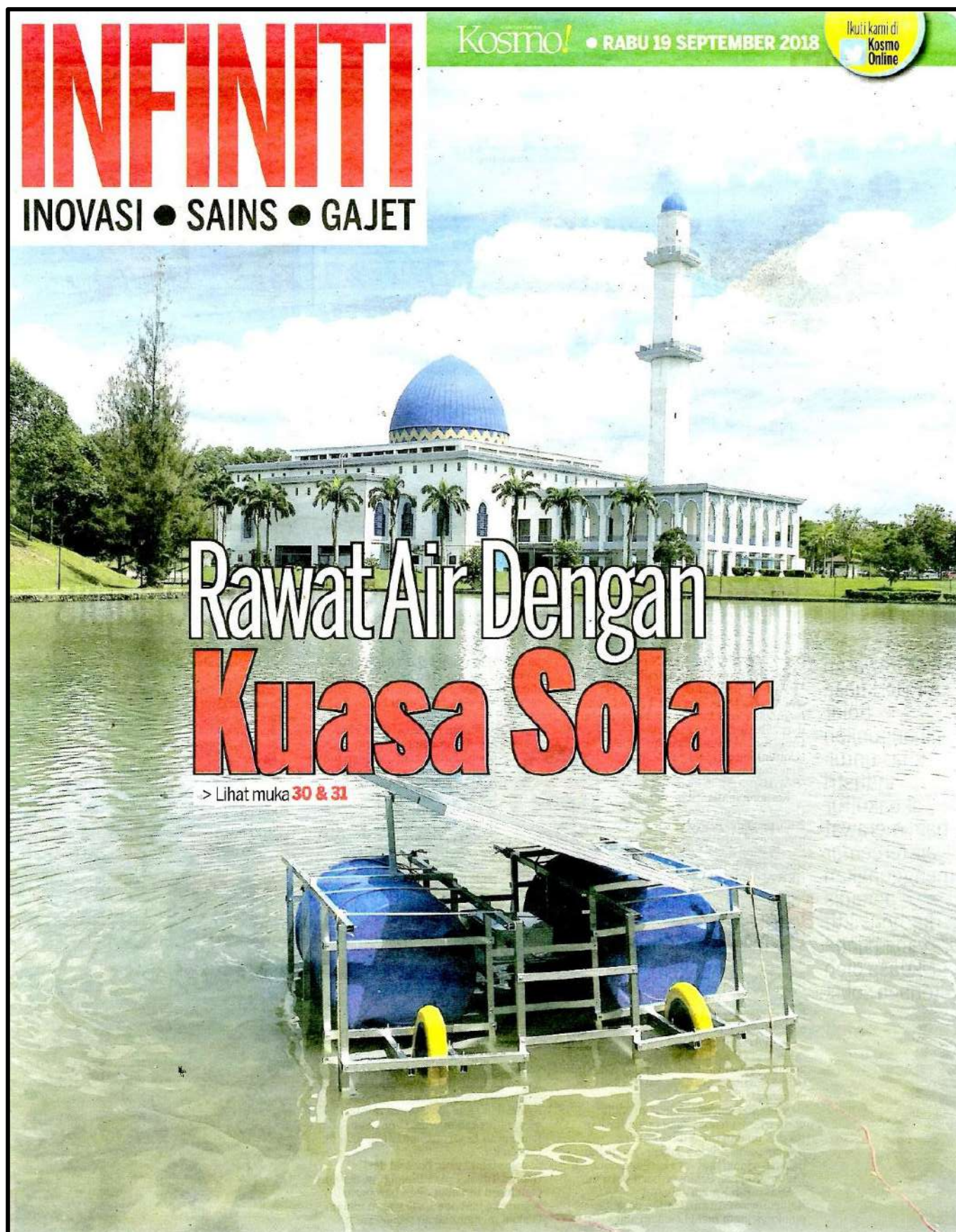
Orang ramai boleh mendapatkan maklumat cuaca terkini menerusi laman sesawang www.met.gov.my, Facebook [Malaysiamet](https://www.facebook.com/Malaysiamet) dan Twitter @malaysianmet. - Bernama



Info Solat		19 SEPTEMBER 2018 9 MUHARAM 1440H					
		SUBUH	SYURUK	ZAHUR	ASAR	MAGHRIB	ISYAK
K. LUMPUR	5:48	7:03	1:10	4:13	7:13	8:21	
SHAH ALAM	5:48	7:03	1:10	4:13	7:13	8:21	
SEREMBAN	5:47	7:03	1:09	4:09	7:12	8:21	
MELAKA	5:46	7:02	1:08	4:08	7:10	8:19	
JOHOR BAHRU	5:40	6:56	1:01	4:01	7:04	8:12	
IPOH	5:51	7:04	1:13	4:17	7:15	8:24	
P. PINANG	5:53	7:07	1:15	4:21	7:17	8:26	
ALOR SETAR	5:52	7:07	1:15	4:22	7:18	8:27	
K. TERENGGANU	5:41	6:58	1:04	4:10	7:06	8:15	
KOTA BHARU	5:49	7:01	1:08	4:15	7:10	8:16	
KUANTAN	5:42	6:56	1:03	4:09	7:06	8:15	
KANGAR	5:53	7:09	1:15	4:23	7:18	8:27	
TAWAU	4:44	6:00	12:05	3:10	6:08	7:17	
KOTA KINABALU	4:50	6:07	12:13	3:18	6:16	7:25	
KUCHING	5:12	6:31	12:36	3:36	6:39	7:48	
MIRI	4:59	6:15	12:21	3:24	6:23	7:32	

*Kawasan-kawasan sewaktu dengannya

LAMPIRAN 24
KOSMO (INFINITI): MUKA SURAT 29
TARIKH: 19 SEPTEMBER 2018 (RABU)



LAMPIRAN 24 (SAMBUNGAN) KOSMO (INFINITI): MUKA SURAT 30 TARIKH: 19 SEPTEMBER 2018 (RABU)



ALAT Rawatan Air Berkuasa Solar dicipta khas untuk kegunaan industri akuakultur.

PRODUK ini dibangunkan dengan bahan-bahan hijau yang berkos rendah.



Penapis karbon aktif sebagai penapis

Alat Rawatan Air Berkuasa Solar dibangunkan khas untuk industri akuakultur bagi merawat air tercemar menggunakan penapis karbon aktif yang dijana kuasa oleh tenaga solar.

MENJALANKAN program rawatan air bersih untuk penduduk Orang Asli di Tasik Bading, Perak telah memberi idea kepada pasukan penyelidik dari Jabatan Kejuruteraan, Universiti Tenaga Nasional (Uniten) untuk menghasilkan Alat Rawatan Air Berkuasa Solar (S-WAD).

Ketika membantu penduduk Orang Asli pada tahun 2015, pasukan penyelidik itu menghasilkan alat rawatan air bersih yang dikenali sebagai Alat Rawatan Air Terapung Bebas (IFWAD) untuk merawat air tersebut.

Menurut ketua penyelidikanya, **Dr. Mohd. Hafiz Zawawi**, bertitik tolak dari situ, mereka mengembangkan inovasi IFWAD untuk mencipta S-WAD yang mempunyai keupayaan lebih besar bagi merawat air tercemar terutamanya di tasik dan kolam ikan serta kawasan air tidak mengalir atau bertakung.

"S-WAD dibangunkan pada tahun 2017 hasil gabungan kepakaran penyelidik dalam tiga bidang iaitu kejuruteraan awam, mekanikal dan elektrik.

"Seramai empat orang penyelidik utama yang terlibat dalam penghasilan produk ini dan turut dibantu oleh pelajar-pelajar ijazah sarjana muda dan ijazah sarjana," katanya ketika ditemui di Uniten, Kajang, Selangor baru-baru ini.

Pensyarah Kanan Jabatan Kejuruteraan Awam, Uniten berkata, pihaknya ingin menghasilkan alat

yang berkos rendah dan efektif untuk merawat pencemaran air agar ia boleh digunakan secara meluas dalam industri akuakultur sekali gus membantu pemain industri tersebut.

Mohd. Hafiz berkata, pada masa sama mereka ingin menyahut seruan kerajaan untuk membangunkan teknologi hijau dengan menggunakan bahan-bahan mesra alam.

"Penghasilan produk tersebut mendapat sokongan sepenuhnya daripada Uniten yang memberi geran sebanyak RM20,000.

"Produk tersebut akan dijual pada harga RM3,000 bagi satu unit," ujar bapa kepada seorang cegah mata itu.

Tambahnya, keberkesanan S-WAD bergantung kepada kedalaman serta keluasan kolam atau tasik.

Sementara itu, salah seorang penyelidik S-WAD, **Iszmir Nazmi Ismail** berkata, produk itu menggunakan panel solar seberat 20 kilogram (kg) dan dua bateri seberat 5kg setiap satu.

"Ia juga dilengkapi dengan penapis berukuran 1.8 meter lebar, 1.7 meter panjang dan 90 sentimeter tinggi.

"Panel solar itu akan mengecap bateri dan pada masa sama untuk menghidupkan operasi penapisan," ujar Pensyarah Kejuruteraan Mekanikal di Uniten itu.

Jelas lelaki yang berasal dari George Town, Pulau Pinang itu, sistem penapisan tersebut akan beroperasi selama 24 jam dan pada waktu malam ia akan menggunakan tenaga yang

disimpan dalam bateri.

Mengulas lanjut mengenai penapisan itu, Iszmir Nazmi berkata, mereka memasukkan karbon aktif di dalam penapis tersebut untuk memerangkap pencemaran atau benda asing yang sangat halus sebelum menyedut keluar air bersih.

Apabila benda asing memasuki penapis ia akan melekat pada karbon aktif yang diperbuat daripada kulit kelapa.

KARBON aktif yang diperbuat daripada kulit kelapa akan dimasukkan di dalam penapis untuk membersihkan air.



ISMIR NAZMI



MOHD. HAFIZ



LAMPIRAN 24 (SAMBUNGAN) KOSMO (INFINITI): MUKA SURAT 31 TARIKH: 19 SEPTEMBER 2018 (RABU)



PENAPIS berfungsi untuk menapis air dan sisa tercemar akan terperangkap di dalamnya.



BEBERAPA anugerah pingat emas yang dimenangi oleh Alat Rawatan Air Berkuasa Solar di dalam dan luar negara.



PASUKAN penyelidik Universiti Tenaga Nasional menghasilkan Alat Rawatan Air Berkuasa Solar dengan menggabungkan tiga disiplin utama iaitu kejuruteraan awam, mekanikal dan elektrik.

Penukaran karbon aktif boleh dilakukan selepas pengulangan penggunaan sebanyak tiga atau empat kali.

S-WAD akan membersihkan kawasan kolam mengikut zon dan mengambil masa sekitar 48 jam untuk merawat air di setiap zon itu.

Penambahbaikan

Ismir Nazmi yang berperanan dalam reka bentuk dan kekuatan struktur berkata, bagi memastikan produk tersebut tahan lasak, beliau menggunakan keluli tahan karat.

"Pada mulanya saya menggunakan aluminium tetapi selepas melakukan ujian di lapangan ternyata bahan

tersebut tidak sesuai digunakan.

"Justeru, saya membuat modifikasi yang bersesuaian agar ia mempunyai daya tahan yang tinggi dan boleh digunakan dalam tempoh masa panjang," terang anak sulung daripada tiga beradik itu.

Sehubungan itu, alat rawatan air tersebut mempunyai jangka hayat sehingga 10 tahun.

Seorang lagi penyelidik Syed Zainal Abidin Syed Kamrul Bahrin berkata, panel solar itu menjana kuasa 250 watt.

"Setiap kali pam, alat ini memerlukan kuasa 25 hingga 30 watt.

"Panel solar ini dibuat daripada bahan *crystalline* yang berkualiti dan harganya juga lebih murah," katanya yang bertugas sebagai Pensyarah Kejuruteraan Elektrik Kuasa di Uniten.

Syed Zainal Abidin berkata, S-WAD yang bakal dipasarkan pada tahun hadapan memerlukan beberapa penambahbaikan seperti ciri kawalan automatik daripada alat kawalan jauh.

Pihaknya juga bakal menambah beberapa ciri penting seperti pergerakan panel solar secara automatik untuk memususkannya ke arah pancaran matahari yang banyak untuk menjana kuasa.

Ulasnya yang berpengalaman selama enam tahun bertugas di Uniten, S-WAD sangat istimewa kerana

selain membersihkan air, alat itu juga memberi pengudaraan kepada air agar ia mempunyai kandungan oksigen yang tinggi.



SYED ZAINAL

Akuinya, cabaran utama untuk menyiapkan projek ini ialah memastikan kos tidak terlalu tinggi dan menggunakan bahan hijau.

Mewakili rakan-rakan penyelidik, Syed Zainal Abidin berkata, mereka merancang untuk memperluaskan teknologi itu ke kawasan pedalaman untuk merawat air bagi membekalkan air bersih kepada penduduk.

Bosar juga harapan mereka agar alat rawatan air itu dapat digunakan di kawasan yang berarus deras seperti sungai pada masa akan datang.

S-WAD memperoleh pelbagai pengiktirafan pingat emas seperti Pameran Penciptaan Antarabangsa, Inovasi dan Teknologi 2018 di Kuala Lumpur, Pameran Penciptaan Kejuruteraan dan Inovasi (I-Envex) 2018 di Universiti Malaysia Perlis serta Pameran Harta Intelek Antarabangsa Bangkok, Penciptaan, Inovasi dan Teknologi 2018, Bangkok, Thailand.

Keistimewaan S-WAD turut mendapat anugerah khas daripada Universiti Craiova, Romania ketika mengikuti pertandingan di Bangkok, Thailand pada tahun 2018.

INFO S-WAD

- Berat keseluruhan 30 kilogram
- Dikuasakan oleh panel solar 250 watt
- Dibina untuk merawat air tercemar bagi industri akuakultur
- Rawatan air dilakukan selama 24 jam
- Menggunakan penapis karbon aktif untuk memerangkap benda asing



ALAT ini dikuasakan oleh panel solar 250 watt dan beroperasi 24 jam.

Alat rawat air guna bahan hijau, kos murah

MENJAGA kualiti air sangat penting dalam industri akuakultur agar ternakan dapat membesar dengan baik dan memperoleh hasil tuaian yang lumayan.

Justeru, sekumpulan penyelidik dari Universiti Tenaga Nasional (Uniten) menghasilkan teknologi yang dikenali sebagai Alat Rawatan Air Berkuasa Solar (S-WAD).

Menurut salah seorang



NAZIRUL MUBIM

penyelidik, Nazirul Mubim Zahari, produk ini perlu diperluaskan dalam industri akuakultur dan pertanian pada masa akan datang kerana harga yang ditawarkan sangat murah, menggunakan bahan mesra alam dan efektif untuk merawat air.

"Teknologi sedia ada dijual pada harga yang mahal dan menggunakan tenaga elektrik. "Sehubungan itu, ia sukar

mendapatkan punca kuasa elektrik kerana soket berada jauh dari kolam atau tasik malah alat tersebut tidak boleh digerakkan," kata Pensyarah Kejuruteraan Awam di Uniten itu.

Tambahnya, walaupun S-WAD banyak memfokus kepada penggunaan industri akuakultur tetapi ia juga boleh digunakan dalam sektor pertanian untuk merawat air di kolam takungan sebelum dilepaskan ke sungai bagi mengelakkan pencemaran.

Jelas Nazirul Mubim, kebanyakan kolam penternakan menggunakan kaedah konvensional iaitu menggunakan kipas untuk berpusing di dalam air untuk meningkatkan kandungan oksigen di dalam air bagi memastikan ikan tidak mati tetapi ia tidak merawat air seperti S-WAD.

Sebaliknya, alat ciptaan penyelidik daripada Uniten itu bertindak dua dalam satu iaitu meningkatkan oksigen dalam air dan merawat air yang tercemar.

LAMPIRAN 25
NEW STRAITS TIMES (GENERATING ENERGY): MUKA SURAT 3
TARIKH: 19 SEPTEMBER 2018 (RABU)

'Disruptive tech the way to go'

KUALA LUMPUR: Policy-makers have been urged to re-examine their regulatory framework to make way for more disruptions in the energy industry towards ensuring economic viability, energy security and conservation of the environment.

"The advancement in key energy technologies will require policy-makers in our respective jurisdiction to take a deeper look at the role of their regulatory framework in adapting to disruptions in the energy industry," Tenaga Nasional Bhd (TNB) chairman Tan Sri Leo Moggie said in his welcoming address to about 2,000 attendees at the Conference of the Electric Power Supply Industry (CEPSI) 2018 yesterday.

Leo said technological development had transformed the industry landscape from mostly mechanical systems into data-centric, digital and cyberphysical systems.

"Even the traditional vertically integrated power utilities are now learning the use and effects of these emerging technologically-driven horizontal forces. We see the megatrends and disruptive technologies bring many new and exciting opportunities.

"However, technology also creates new participants that can ac-



Tan Sri Leo Moggie delivering his welcome address at the Conference of the Electric Power Supply Industry 2018 in Kuala Lumpur yesterday. PIC BY MUHD ZAABA ZAKERIA

celerate and change the industry landscape in meeting new expectations of customers for better services at competitive rates. As such, the industry needs to embrace technologies and breakthrough ideas.

"The advancement in key energy technologies will require policy makers in our respective jurisdiction to re-examine the role of their

respective regulatory framework. Taken together, the use of new technology and appropriate regulatory framework are tools to achieve the goals of energy sustainability."

The three-day CEPSI 2018, themed "Reimagining the Utility of the Future", is held for the first time in Malaysia after 22 years. It ends tomorrow.

LAMPIRAN 26

THE SUN DAILY (SUNBIZ): MUKA SURAT 12
TARIKH: 19 SEPTEMBER 2018 (RABU)

TNB to work closely with MyPower for industry reform

KUALA LUMPUR: Tenaga Nasional Bhd (TNB) will work closely with MyPower, the special-purpose agency to be set up by the government for energy industry reform, to reduce the people's perception that it is a monopoly, said CEO Datuk Seri Azman Mohd.

He said the utility giant has a lot of ideas and experience to contribute to the industry reforms in line with the government's Malaysia Energy Supply Industry (MESI) 2.0 programme.

Asked whether the industry would see drastic changes following the implementation of MESI 2.0, he said it would do good for the industry as well as disconnect the monopoly image from TNB.

"The market views us as monopolising the market, and people have perceptions that we are lazy and incurring more cost, but in actual fact we like more competition because it proves we are more competitive," he told reporters during a press conference after the general assembly meeting yesterday.

The meeting was held in conjunction with the Conference of the Electric Power Supply Industry (Cepsi) 2018.

Azman added that TNB has achieved its key performance index, including a reliability indicator for electric power utilities – the supply average interruption duration index – which puts TNB in the developed country group in terms of performance.

He also said the meeting decided that another emerging economy, the Philippines, will be hosting the biennial Cepsi, followed by China. – Bernama

LAMPIRAN 27
THE STAR (NEWS): MUKA SURAT 3
TARIKH: 19 SEPTEMBER 2018 (RABU)

TNB to work closely with MyPower for industry reform



KUALA LUMPUR: Tenaga Nasional Bhd (TNB) will work closely with MyPower, the special-purpose agency to be reactivated by the government for energy industry reform, to reduce the people's perception that it is a monopoly, said chief executive officer Datuk Seri Azman Mohd (*pic*).

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Philippines, will be hosting the biennial Cepsi, followed by China.

Meanwhile, earlier in his opening speech, Azman noted that TNB hosted the conference in Kuala Lumpur 22 years ago.

"We were known as the Central Electricity Board and the power generation installed capacity was a mere 40 MW serving 46,000 customers, but now the installed capacity in Peninsular Malaysia is 25,000 MW with TNB having more than 13,000 MW serving 8.8 million," he added.

This shows that the industry is rapidly changing on a daily basis, unlike 20 years ago when it was a very predictable industry, he said, noting the importance for industry players to meet and discuss with greater frequency. — Bernama

LAMPIRAN 28
UTUSAN MALAYSIA (BISNES): MUKA SURAT 44
TARIKH: 19 SEPTEMBER 2018 (RABU)

TNB akan bekerjasama rapat dengan MyPower

■ KUALA LUMPUR 18 SEPT.

TENAGA Nasional Bhd (TNB) akan bekerjasama rapat dengan MyPower, agensi tujuan khas yang akan ditubuhkan kerajaan untuk pembaharuan industri tenaga, bagi mengurangkan tanggapan rakyat bahawa ia adalah monopoli, kata Ketua Pegawai Eksekutif, Datuk Seri Azman Mohd.

Beliau berkata, utiliti gergasi itu mempunyai banyak idea dan pengalaman untuk menyumbang kepada pembaharuan industri sejajar dengan program Industri Bekalan Tenaga Malaysia (MESI) 2.0 kerajaan.

Ditanya sama ada industri tersebut akan melihat perubahan drastik berikutan pelaksanaan MESI 2.0, Azman berkata, ia adalah baik bagi industri itu dan membuang imej monopoli daripada TNB.

"Pasaran memandang kita sebagai memonopoli pasaran dan orang mempunyai persepsi bahawa kita malas dan menanggung kos yang lebih tinggi, tetapi sebenarnya kita lebih suka persaingan kerana ia membuktikan kita lebih berdaya saing," katanya kepada pemberita semasa sidang akhbar di sini hari ini.

Pasaran memandang kita sebagai memonopoli pasaran dan orang mempunyai persepsi bahawa kita malas dan menanggung kos yang lebih tinggi, tetapi sebenarnya kita lebih suka persaingan kerana ia membuktikan kita lebih berdaya saing."

AZMAN MOHD.



Mesyuarat itu diadakan sempena Persidangan Industri Bekalan Tenaga Elektrik (CEPSI) 2018.

Menurut Azman, TNB telah mencapai indeks prestasi utama, termasuk petunjuk kebolehppercayaan untuk utiliti tenaga elektrik - indeks jangka masa gangguan purata bekalan (SAIDI) - yang meletakkan TNB dalam kumpulan negara maju dari segi prestasi.

Beliau juga berkata, mesyuarat itu memutuskan bahawa satu lagi ekonomi membangun, Filipina, akan menjadi tuan rumah CEPSI dwitahunan tersebut, diikuti China.

Sementara itu, dalam ucapan perasmian sebelum itu, Azman berkata, TNB telah menjadi

tuan rumah persidangan itu di Kuala Lumpur 22 tahun lepas.

"Ketika itu kami dikenali sebagai Lembaga Letrik Negara dan kapasiti penjanaan tenaga terpasang adalah 40 megawatt (MW) bagi 46,000 pelanggan tetapi kini kapasiti terpasang di Semenanjung adalah 25,000 MW dengan TNB mempunyai lebih daripada 13,000 MW untuk 8.8 juta," tambahnya.

Ini menunjukkan industri itu pesat berubah setiap hari, tidak seperti 20 tahun yang lalu apabila ia merupakan industri yang boleh diramalkan, katanya sambil menyatakan pentingnya pemain industri untuk bertemu dan berbincang dengan lebih kerap. - BERNAMA

PRESTASI PERDAGANGAN JANUARI-JULAI 2018

JUMLAH PERDAGANGAN

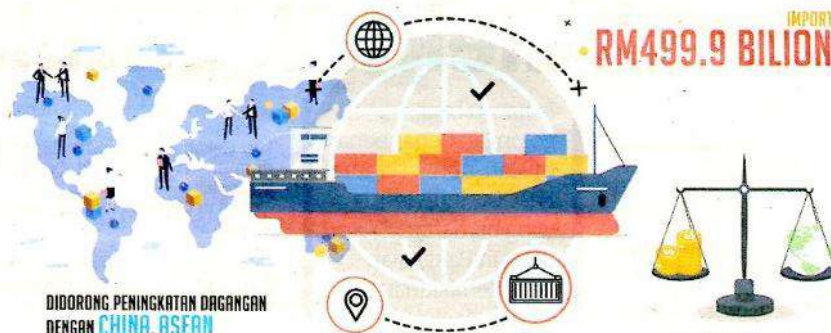
RM1.07 TRILION

EKSPORT

RM568.7 BILION

IMPORT

RM499.9 BILION



DIDORONG PENINGKATAN DAGANGAN DENGAN **CHINA, ASEAN** DAN **ARAB SAUDI**

IMBANGAN PERDAGANGAN

RM68.8 BILION

UTUSAN
MALAYSIA

Sumber: Buletin Mingguan Kementerian Perdagangan Antarabangsa dan Industri (MITI)

LAMPIRAN 29
THE SUN DAILY (CAREERS): MUKA SURAT 17
TARIKH: 19 SEPTEMBER 2018 (RABU)



A total of 304 students from 19 schools in the Alor Gajah district took part in the Mentor-Mentee programme.

Fostering interest in STEM

UNIVERSITI KUALA LUMPUR Malaysian Institute of Chemical and Bioengineering Technology (UniKL – MICET) organised a Science, Technology, Engineering and Mathematics (STEM) seminar involving 304 students from 19 schools in the Alor Gajah district.

The Mentor-Mentee programme involved the Pejabat Pendidikan Daerah Alor Gajah and Jabatan Pendidikan Negeri Melaka – the first of such conducted on campus, in conjunction with STEM Day.

The day's proceedings involved students from Form 1 to 4 and was aimed to expose them to a more enjoyable way of learning science. The goal was to develop interest and create appeal on the importance of science and technology apropos a better future for the country.

The programme comprised four modules involving four competitive phases – Chem-E Car, Titration Challenge, Pitching Competition of Herbal

Technology, and Treasure Hunt: Maths is Cool. The final stage involved a challenge to determine the winning schools.

Organisers felt efforts like this will increase a student's interest in science, at the same time fulfil the government's intent in increasing the number of scientists and engineers, and help grow the number of people required in future skill-based industries.

UniKL – MICET is a pioneer institution in providing hands-on experience and exposure to chemical-based technology education in Malaysia. The current demand for professionals in this field has created vast opportunities for graduates hence, the university's five diplomas and seven bachelor programmes related to Polymer, Environment, Process, Food, Bioprocess, Biosystem and Chemical Engineering, developed to produce skilled human capital according to market demand.

LAMPIRAN 30
BERITA HARIAN (BISNES): MUKA SURAT 63
TARIKH: 19 SEPTEMBER 2018 (RABU)

Industri petrokimia, sumber tenaga perlu pendigitalan

➔ AspenTech
tawar
penyelesaian
tangani
masalah

Oleh Nora Mahpar
noramahpar@nstp.com.my

Permintaan yang tinggi dalam sumber tenaga dan industri petrokimia di negara kelas pertengahan seperti Malaysia menjadikan aspek transformasi pendigitalan sangat penting supaya industri ini kekal berdaya maju dan terkehadapan.

Pengarah Pemasaran Industri, Tenaga Aspen Technology Inc (AspenTech), Ron Beck, berkata sebagai syarikat perisian pengoptimuman aset, pihaknya melihat penawaran syarikat dalam penyelesaian perisian akan membolehkan banyak perusahaan mengoptimumkan prestasi aset mereka.

Katanya, ia sekali gus membawa kepada lonjakan keuntungan, pengurangan masa henti yang tidak dirancang dan meningkatkan operasi harian.

"Asia menempatkan satu pertiga daripada perniagaan kami, masalah masa henti yang tidak

dirancang berlaku sehingga tiga hingga 10 hari setiap tahun dalam kalangan syarikat besar apabila sistem atau peralatan mereka gagal melaksanakan fungsi utama, ini menyebabkan gangguan produktiviti dan kerugian kepada syarikat berkenaan.

"Penyelesaian AspenTech boleh membantu bagi menangani masalah dengan lebih baik, termasuk membuat perancangan serta penjadualan membabitkan kitaran aset dengan memanfaatkan data yang besar, kecerdasan buatan dan pembelajaran mesin," katanya dalam taklimat media bertajuk Transformasi Digital Industri Tenaga: Apakah maknanya kepada Malaysia? di Kuala Lumpur, semalam.

Pemacu utama pertumbuhan produktiviti

Katanya, tanpa perancangan yang bersepadu, perniagaan akan berdepan penyusutan pengeluaran antara dua hingga lima peratus dalam industri petrokimia dan memerlukan kos penyelenggaraan sehingga 10 kali ganda berbanding penyelenggaraan berjadual dan dirancang dalam industri pemprosesan.

"Malah, tanpa pendigitalan, industri pembuatan juga akan berdepan peningkatan kos buruh dan inventori antara lima hingga 10 peratus, sekali gus mengurangkan prospek keuntungan.



Kami percaya, dengan mengoptimumkan prestasi aset dalam kompleks, persekitaran industri akan menjadikan syarikat lebih berdaya maju dan terbaik"

Ron Beck,
Pengarah Pemasaran
Industri AspenTech



"Perniagaan di Malaysia akan terus berkembang dalam sektor tenaga, kimia, kejuruteraan, perlombongan dan elektrik, sejajar dengan peningkatan permintaan dan populasi negara ini," katanya.

Beck berkata, pengoptimuman aset secara menyeluruh dijangka akan meningkatkan produktiviti antara 0.8 peratus hingga 1.4 peratus setiap tahun antara 2015 hingga 2065 berbanding 0.6 peratus menerusi penggunaan teknologi maklumat (IT) pada lewat 90-an hingga 2015.

"Pengoptimuman aset adalah pemacu utama kepada pertumbuhan produktiviti, memastikan keseluruhan kitaran perniagaan mencapai kece-

merlangan operasi.

"Kami percaya, dengan mengoptimumkan prestasi aset dalam kompleks, persekitaran industri akan menjadikan syarikat itu lebih berdaya maju dan terbaik," katanya.

Baru-baru ini, PETRONAS memilih perisian kejuruteraan, rantaian bekalan petroleum dan pengurusan aspenONE yang dibangunkan AspenTech bagi mengoptimumkan keuntungannya di kemudahan Pembangungan Bersepadu Penapisan Minyak dan Petrokimia (RAPID), Pengerang, Johor.

AspenTech yang berpangkalan di Massachusetts, Amerika Syarikat, ditubuhkan pada 1981 dan beroperasi di Malaysia selama lebih 30 tahun.

LAMPIRAN 31
KOSMO (DUNIA): MUKA SURAT 48
TARIKH: 19 SEPTEMBER 2018 (RABU)

Bilionair Jepun bakal menjadi pelancong pertama kelilingi Bulan

WASHINGTON – Bilionair Jepun, Yusaku Maezawa (gambar) bakal menjadi orang persendirian pertama yang membayar untuk mengelilingi Bulan dengan menaiki roket *SpaceX* generasi baharu, lapor agensi berita *Xinhua* semalam.

Firma Amerika Syarikat (AS), *SpaceX* mengumumkan kelmarin bahawa Maezawa yang merupakan pengasas kedai pakaian online terbesar Jepun, *Zozotown*, mahu menyertai program itu pada tahun 2023.

Beliau juga akan menjemput antara enam hingga lapan artis untuk menaiki roket bersama-samanya. Bilionair itu telah membayar untuk kesemua tempat duduk yang ditawarkan.

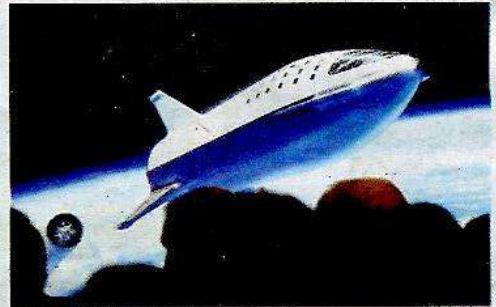
“Saya menyukai Bulan sejak dari zaman kanak-kanak lagi. Ini merupakan impian



hidup saya,” kata Maezawa di ibu pejabat dan kilang roket *SpaceX* di Hawthorne, California lewat kelmarin.

Maezawa, 42, yang mem-

punyai anggaran kekayaan berjumlah AS\$2.9 bilion (RM12 bilion) juga merupakan pengumpul koleksi seni.



REUTERS

GAMBARAN artis menunjukkan roket BFR yang sedang dibina oleh *SpaceX* di Hawthorne, California.

Sementara itu, pengasas *SpaceX*, Elon Musk berkata, roket generasi baharu itu yang dinamakan Roket Falcon Besar (BFR) masih dalam pembinaan. Roket itu akan mempunyai ketinggian 118 meter dan mampu membawa muatan seberat 100 metrik tan. – Bernama/AFP

LAMPIRAN 32
THE STAR (WORLD): MUKA SURAT 30
TARIKH: 19 SEPTEMBER 2018 (RABU)

Boosting AI to benefit world

Xi: China willing to share opportunities created by technology

BEIJING: China is willing to promote development, maintain security and share results with other countries in the field of artificial intelligence, President Xi Jinping said in a congratulatory letter at the start of a gathering in Shanghai that has drawn some of the world's top AI luminaries.

The president said China is willing to share development opportunities in the digital economy with other countries and called for joint efforts in promoting AI for the benefit of mankind.

Xi stressed the importance of dialogue and cooperation in the booming sector, as China is quickly climbing the ranks of AI, which is starting to revolutionise everything from manufacturing to social governance in the world's second-largest economy.

In the letter read by Shanghai Party Secretary Li Qiang at the 2018

World Artificial Intelligence Conference, Xi said the new generation of AI is booming on a global scale, and it requires deepened cooperation and joint discussions among nations to deal with new AI subjects like law, security, employment, ethics and governance.

Xi envisioned the development and application of AI as greatly enhancing the level of economic and social development and improving public services and urban management.

Xi's remarks were echoed by Vice-Premier Liu He, who called for investment in AI research and cross-border collaboration to collectively address the complex ethical and legal questions raised by the technology.

"We will encourage 'zero to one' original research ... and beef up efforts to defend intellectual property protection in the IP-intensive

sector," Liu said at the opening ceremony. "Zero to one" refers to creating something new and taking it to the first step.

Liu also proposed creating a more favourable environment for related private sectors and small and medium-sized enterprises, which comprise an important pillar of the thriving industry.

The country accounted for 48% of the world's total AI startup funding last year, consultancy CBInsights said.

Chinese technology powerhouses – including Alibaba, Tencent, Baidu and iFlytek – have delved into specific fields using AI, including smart city administration, medical diagnosis, autonomous driving and voice recognition.

"Smart technologies will penetrate into every aspect of society in the coming three decades," said Jack Ma, chairman of Alibaba, a

company that uses AI to predict customer needs and rejuvenate offline shopping, among other endeavours.

The proliferation of data – with more people generating far more information in China than in any other country – is the fuel for improving AI, according to Kai-Fu Lee, founder and CEO of Sinovation Ventures.

The conference also has witnessed the formation of an AI-themed academic alliance bringing together world-class universities like the Massachusetts Institute of Technology and China's Tsinghua University.

"The move is part of the push to close China's top-notch AI talent gap in order to fulfil its AI supremacy," said Tang Xiao'ou, founder of SenseTime and professor at the Chinese University of Hong Kong. — China Daily/Asia News Network

LAMPIRAN 33

THE STAR (TECHNOLOGY): MUKA SURAT 11

TARIKH: 19 SEPTEMBER 2018 (RABU)

IT IS no surprise that many still believe that blockchain technology is confined to cryptocurrencies.

After all, blockchain's entrance into the mainstream was catalysed by the granddaddy of cryptocurrencies – Bitcoin.

But what is Bitcoin anyway? In 2008, an unknown person (or people) by the name Satoshi Nakamoto published the Bitcoin whitepaper which laid the groundwork for the first trustless, peer-to-peer virtual cash system.

Nakamoto set out to create a decentralised digital currency in an attempt to solve many of the issues faced by traditional fiat currencies and banking systems, including slow speed and high transaction fees.

Bitcoin, as argued by many experts, also has the capacity to tackle deeper problems inherent in centralised systems, such as fraud/counterfeiting, inflation and monopolies.

And as Bitcoin gained popularity, so did the ideas for applying blockchain in a wide array of businesses.

What is blockchain?

Blockchain is a decentralised, openly shared and distributed digital ledger that is secured using cryptography.

Blockchain challenges conventional, centralised models by offering a cost-effective, efficient and secure way to trade, but also without any need for intervention from intermediaries or central authorities.

On top of that, every transaction is time-stamped, making the ledger auditable and virtually tamper-proof.

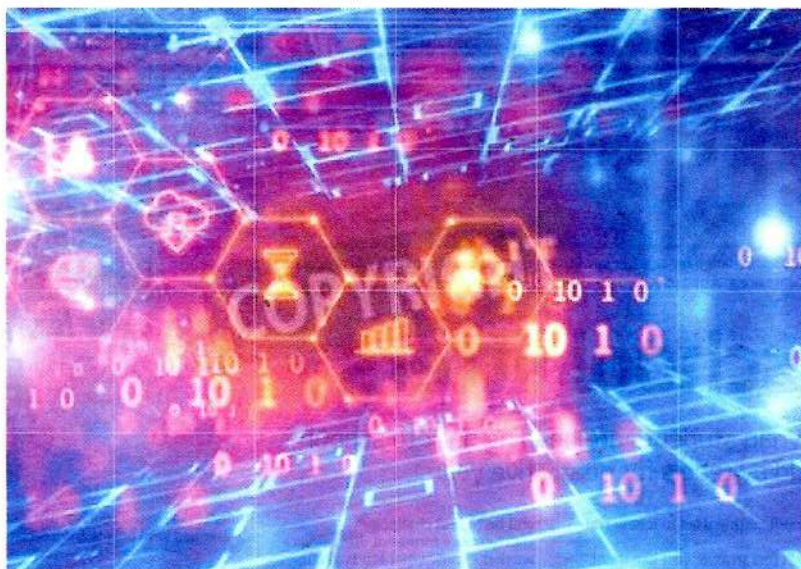
One of the unique features of blockchain is that it's managed by participants who contribute to the network's upkeep. The same participants will validate the integrity and authenticity of the data through a predefined consensus mechanism.

Simply put, this means that everyone on the network works together to ensure the validity of the data, instead of it being controlled by a single person or entity. What's also important here is that there is no single point of failure that can occur within a blockchain.

The technology is being tested and deployed in various industries and here are six interesting ones.

Basics of blockchain

Blockchain is easier to understand when you know how it's being used in various industries.



Everyone on a blockchain network works together to ensure the validity of the data so no single person or entity controls it. — 123rf.com

Tracking food

Supply chains of today require an extraordinary amount of diligence when it comes to tracking goods as it moves from supplier to factory to shipyard.

Due to reliance on trust, supply chains are susceptible to human error, regardless of whether it is accidental or malicious.

Late last year, major retailer Walmart partnered with IBM to work on the Hyperledger Fabric blockchain for tracking food items from supplier to shelf.

Postal service

Thailand Post is looking to implement blockchain technology to improve its own supply chain

and processes, from warehouse to delivery and everything in between.

Blockchain will allow it to employ real-time tracking and automated verification systems, which will improve the efficiency of the state-run postal service.

Countering counterfeit

Luxtag has created a decentralised app to combat counterfeit and intellectual property theft so anyone can secure their valuable assets via the NEM blockchain.

Through its digitised certificates of authenticity, it is able to protect all types of products from bags to vehicles.

Malaysian artist Poesy Liang and Luxtag recently teamed up to

implement a blockchain solution that authenticates and records provenance of Liang's artwork.

Financial inclusion

With over a third of the Philippines surviving on less than US\$2 (RM8.20) a day and having little to no access to banking services, the government needs a solution that doesn't leave out anybody.

Project i2i aims to connect rural banks that have been excluded from the main payment networks by using smart contracts via blockchain technology.

It is aiming to create a decentralised, cost efficient and fast payment network that is not reliant on existing payment infra-

structures and other intermediaries such as Swift.

Banks will potentially be able to issue digital tokens which will be backed by the Philippines pesos, essentially forming crypto-cash.

Electoral fraud

Electoral fraud is rife around the world, particularly in developing nations.

Blockchain is a great tool for tackling this serious issue as it can render votes anonymous while also providing better security.

A project known as Agora has already built a digital voting platform for governments and organisations to use.

Identity fraud

In 2017, 2.6 billion cases of identity breaches were recorded across the globe, according to the Breach Level Index. Identity theft alone accounted for about 69% of all data breaches.

As blockchain is tamper-proof by design and makes verification painless, it's easy to see why it's great for preventing identity theft.

Civic is an identity verification platform that uses multi-factor authentication without requiring passwords or usernames, as it combines biometric authentication with blockchain technology.

Blockchain conference

But there's more to blockchain as the technology is still in its infancy.

You can learn about blockchain's potential and how it is going to transform businesses at Blocfest 2018, scheduled to take place at the Shangri-La Hotel, Kuala Lumpur, on Sept 26 and 27.

You'll also get to network with people who are developing technologies based on blockchain during the KL Blockchain Week, from Sept 24 and 27, which also includes a hackathon.

Those interested in attending can get 40% off VIP tickets priced at US\$450 (RM1,860) or normal tickets priced at US\$375 (RM1,550) by keying in the promo code BLOC40D during checkout but this offer is only available for a limited time. Visit www.blocfest.asia for more information.