



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

Bil	Berita	Media	Capaian Berita Penuh
<b>3 JUN 2019 (ISNIN)</b>			
1.	<a href="#">Malaysia To Return 3,300 Tons Of Waste In Different Countries</a>	News Update 24	Klik pada tajuk berita
2.	<a href="#">‘Rubbish Wars’: South-East Asia Contests Western Approach to Recycling</a>	The Organization for World Peace	Klik pada tajuk berita
3.	<a href="#">Sedang Tren, Banyak Negara yang Kirim Balik Sampah Plastik ke Asalnya</a>	Liputan6.com	Klik pada tajuk berita
4.	<a href="#">Burning tyres: The murky oil business polluting Johor, other parts of Asia</a>	The Sun Daily	Klik pada tajuk berita
5.	<a href="#">Higher penalties needed on plastic waste, says activist</a>	Free Malaysia Today	Klik pada tajuk berita
6.	<a href="#">Sudeste Asiático se revolta contra os resíduos do Ocidente: ‘Não seremos o lixo do mundo’</a>	BBC Brasil	Klik pada tajuk berita
7.	<a href="#">Gempa bumi sederhana landa Sumatera Utara</a>	KOSMO!	Klik pada tajuk berita
8.	Think about packaging before you buy anything	The Star	Rujuk lampiran 1
9.	Dealing with radioactive waste	The Sun	Rujuk lampiran 2
<b>2 JUN 2019 (AHAD)</b>			
10.	<a href="#">Yeo's got her hands full</a>	New Straits Times	Klik pada tajuk berita
11.	<a href="#">Motosikal disita dalam operasi</a>	Berita Harian	Klik pada tajuk berita



## 1 JUN 2019 (SABTU)

1 JUN 2019 (SABTU)			
12.	<a href="#"><u>Green Technology Financing Scheme 2.0 receives encouraging response</u></a>	Malaysia Kini	Klik pada tajuk berita
13.	<a href="#"><u>Green Technology Financing Scheme 2.0 receives encouraging response</u></a>	BERNAMA	Klik pada tajuk berita
14.	<a href="#"><u>Skim Kewangan Teknologi Hijau 2.0 terima sambutan menggalakkan</u></a>	BERNAMA	Klik pada tajuk berita
15.	<a href="#"><u>Malaysia to return plastic from other countries</u></a>	Telangana Today	Klik pada tajuk berita
16.	<a href="#"><u>No more bottled water, plastic-wrapped food at gov't events</u></a>	Malaysia Kini	Klik pada tajuk berita
17.	<a href="#"><u>Malaysia plans June meetings with Australian officials over Lynas waste</u></a>	The Sun Daily	Klik pada tajuk berita
18.	<a href="#"><u>Yeo to meet Australian minister over waste disposal</u></a>	The Star	Klik pada tajuk berita
19.	<a href="#"><u>Shipping back radioactive waste, pre-condition to Lynas licence renewal - Fuziah</u></a>	BERNAMA	Klik pada tajuk berita
20.	<a href="#"><u>Mestecc: Pencemaran air bawah tanah Gebeng bukan dari Lynas</u></a>	Malaysia Kini	Klik pada tajuk berita
21.	<a href="#"><u>Too early to tell financial impact from overcharging issue, says TNB CEO</u></a>	BERNAMA	Klik pada tajuk berita
22.	<a href="#"><u>Digital meters more accurate in recording electricity charges - Dr Mahathir</u></a>	BERNAMA	Klik pada tajuk berita
23.	<a href="#"><u>Kesedaran rakyat Malaysia isu haiwan terancam rendah</u></a>	Malaysia Kini	Klik pada tajuk berita



## TEMPATAN

Bil	Berita	Media	Capaian Berita Penuh
<b>3 JUN 2019 (ISNIN)</b>			
24.	<b>TNB periksa meter pelanggan bil tinggi</b>	KOSMO!	Rujuk lampiran 3
25.	<b>Isu bil: TNB sedang lakukan yang terbaik</b>	Utusan Malaysia	Rujuk lampiran 4
26.	<b>TNB addresses concerns over bill hikes</b>	The Sun	Rujuk lampiran 5
27.	<b>[KLIK] TNB</b>	Sinar Harian	Rujuk lampiran 6
28.	<b>Lynas: Kerajaan PH tidak konsisten</b>	Utusan Malaysia	Rujuk lampiran 7
29.	<b>Lim taken to task over remarks on Lynas</b>	The Star	Rujuk lampiran 8
30.	<a href="#"><u>Aussie firm drops Lynas takeover bid, says report</u></a>	Free Malaysia Today	Klik pada tajuk berita
31.	<b>'Turn plastic waste to fuel'</b>	The Sun	Rujuk lampiran 9
32.	<b>NGOs want more companies to protect the environment</b>	The Star	Rujuk lampiran 10
33.	<b>Henti pencemaran</b>	Utusan Malaysia	Rujuk lampiran 11
<b>2 JUN 2019 (AHAD)</b>			
34.	<a href="#"><u>Kempen hindari penggunaan plastik sekali guna dikuatkuasa mulai 1 Julai</u></a>	Astro Awani	Klik pada tajuk berita
35.	<a href="#"><u>S'gor kuat kuasa kempen hindari beg plastik 1 Julai</u></a>	Malaysia Kini	Klik pada tajuk berita
<b>1 JUN 2019 (SABTU)</b>			
36.	<a href="#"><u>Spike in bills: TNB says faced technical issues from May 15-20</u></a>	New Straits Times	Klik pada tajuk berita



37.	<a href="#">Perubahan bil TNB disebabkan bacaan lebih tepat - PM</a>	Berita Harian	Klik pada tajuk berita
38.	<a href="#">Asteroid bakal dinamakan dua remaja Malaysia</a>	Astro Awani	Klik pada tajuk berita
39.	<a href="#">Australia hails Dr M's intentions over Lynas</a>	The Star	Klik pada tajuk berita

## ANTARABANGSA

Bil	Berita	Media	Capaian Berita Penuh
<b>3 JUN 2019 (ISNIN)</b>			
40.	<a href="#">UK and Trump miles apart on climate change</a>	CNN	Klik pada tajuk berita
41.	<a href="#">Japan's deadly 2018 heatwave 'could not have happened without climate change'</a>	Eco Business	Klik pada tajuk berita
42.	<a href="#">The Pursuit Of Carbon Capture Is A More Rational Policy Than The Rejection Of Climate Science</a>	Forbes	Klik pada tajuk berita
43.	Laws needed to rein in robots	New Straits Times	Rujuk lampiran 12
<b>2 JUN 2019 (AHAD)</b>			
44.	<a href="#">Kanada terima kembali 'kiriman' sampah dari Filipina</a>	Astro Awani	Klik pada tajuk berita
<b>1 JUN 2019 (SABTU)</b>			
45.	<a href="#">There's A Nationwide STEM Teacher Shortage. Will It Cost Us The Next Einstein?</a>	Forbes	Klik pada tajuk berita
46.	<a href="#">Energy Prices Crash in Europe as Old, New Fuels Vie for Share</a>	Bloomberg	Klik pada tajuk berita



LAMPIRAN 1  
THE STAR (VIEWS): MUKA SURAT 17  
TARIKH: 3 JUN 2019 (ISNIN)

I COULDN'T agree more with Energy, Science, Technology, Environment and Climate Change Minister Yeo Bee Yin. Illegal importers of unwanted trash from developed countries (and from one Third World country) as reported are indeed traitors to this country ("DOE gets tough on e-waste", *The Star*, May 30, online at bit.ly/star\_dump).

These people who had full knowledge of the contaminated and unrecyclable waste in the containers should be taken to court. Authorities in the know, who allowed this trash to land on our shores, have to be investigated too.

We already have our own waste piling up in our backyard that is hard to deal with, what more

## Think about packaging before you buy anything

tonnes of waste from elsewhere that are contaminated, cannot be recycled, are a health risk, and occupy huge amounts of space on our soil? Ironically, they have come from mostly the developed countries who have been championing environmental issues for ages!

I wonder how many more Third World countries are at the receiving end of such waste "packages". In this case, no news doesn't mean good news. It just means somebody might have chosen not to report it or chose to conceal it.

I strongly support Minister Yeo's firm stand in rejecting any kind of illegal waste from any country.

Malaysia cannot be the dumping ground for waste that developed countries can't manage. If they can't handle it, what more us, a small developing country?

And I strongly believe the issue does not fall on Yeo's ministry alone but requires the cooperation of and support from other ministries and agencies such as the Finance Ministry, Royal Malaysian Customs and maybe the Foreign Affairs Ministry.

While that is being done on the macro level, Malaysians should spare a thought before purchasing end products that utilise single-use plastic and packaging.

This goes beyond using reusable shopping bags and not using plastic or paper straws and encompasses consuming food wrapped in plastic within a plastic, a box within a box and a bag within a bag.

What about going back to taking powdered beverages and biscuits in containers to our workplace or schools instead of using sachets and

individual packets?

Anyone fancy using facial masks in cream, clay or gel form in containers that would last at least six months instead of the individual paper mask for every facial session that you have at home?

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LAMPIRAN 2  
THE SUN (SPEAK UP): MUKA SURAT 10  
TARIKH: 3 JUN 2019 (ISNIN)

# Dealing with radioactive waste

ONCE again the spectre of radioactive waste has hit the headlines. Make no mistake. It affects human health and destroys the environment. Its radioactivity lasts for thousands of years. Only half of its radioactivity disappears after a long time. The other half continues to be active. So, storing it in any receptacle may not easily solve the problem. Whether in drums or buried in the ground.

Some years ago the Asian Rare Earth (ARE) plant in Bukit Merah, outside Ipoh was producing radioactive waste. The people living near the plant mounted a law suit after the government refused to ban the factory. After many long years' fight through the courts, ARE stopped its operations and moved its plant to China.

Industry says that the waste emits low radioactivity and is safe.

Is exposure to low level radioactive material hazardous?

Yes, say well-controlled scientific independent studies: "Health effects of ionising radiation and their consideration in radiation protection": [www.joint-project.org/health.htm](http://www.joint-project.org/health.htm). The effects are similar to those of higher doses. The studies conclude that exposure to such low level radiation can cause an increase of thyroid cancer, leukaemia and lymphomas, breast and other solid cancers. The effects can also be passed on to children of parents exposed to such radiation resulting in deformed babies.

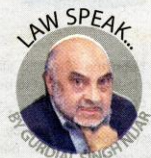
As examples. Ionising radioactive

material from the Fukushima plant accident resulted in excess thyroid cancers among children and adolescents within four years of the release. Workers developed leukaemia after clean-up and were awarded compensation. And increases in risk of breast cancer arising from the Chernobyl accident appeared about 10 years after the accident. It was highest among women who were younger at the time of the accident.

Predictably, those involved in producing radioactive material can be expected to object to the results of these studies. On such grounds as these studies relate to nuclear plants or that they were not scientific enough. But the essential point is that they studied the effects of low level doses of exposure to radioactive material. Does it then matter how the material is produced - whether by a nuclear plant or a factory which produces radioactive waste?

Which brings me to the next point. If there is no "scientific consensus" on the effects, then countries can - and should - take preventative measures. Described in international law as the "precautionary principle or approach".

It means that if there is no scientific certainty, then countries can prevent the creation of such material (such as radioactive waste) by any factory. Or impose stringent conditions for their disposal. Our 2007 Biosafety Act has adopted this principle in relation to the import or introduction of genetically modified products.



*"Should the economies of the market place and making money trump the economies of nature and survival?"*

Radioactive waste stays radioactive - therefore hazardous - for thousands of years. Its disposal poses a major challenge for policymakers. Where do you store it? Deep underground? Is this maintainable for long periods? Who will manage it? What of leaks? What guidelines can be established? Who will regulate?

Waste cylinders can hardly outlast the radioactive life of the material. What if someone with ill intent finds the waste to use for "unpleasant" purposes?

Even highly effective safety features and stringent regulatory oversight could not prevent accidents in Chernobyl and Fukushima. Causing untold effects on the environment, animals and plant life; the waste can contaminate ponds, rivers and water systems and ultimately affect human health.

Buried waste can seep into the ground, get into reservoirs and other water sources and, from there, reach the homes of people who unwittingly drink radioactive material. There are examples of these accidents all over the world and from all time periods; rare as they maybe, its effects are a huge effect on many people.

Accidents can also happen when transporting waste. Finally, the cost of cleaning up to make everything safe can be enormous.

The government is burdened with the issue of disposing radioactive waste from the Lynas plant in Gebeng, Pahang approved with minimal conditions by the previous government. Environment

Minister Yeo Bee Yin is commendably resolute in demanding that any further approval for the plant is contingent upon it shipping its waste to Australia from where the raw material originates. The government is committed to this stance and has authorised Yeo to engage with the Australian government.

There are concerns of contamination of ground water, river sediments and the soil. As well as of airborne radioactive dust particles which could be inhaled and ingested by workers and the public. Also, says the Consumers Association of Penang, the radioactive and toxic wastes have been diluted and dispersed on prime agriculture land including on padi land. "Where these rice crops end up to be consumed is unknown".

The prime minister seems inclined to saving the Lynas plant for development reasons. Especially since the price of rare earths has peaked. As China - the largest producer of rare earths - has threatened to cut supplies to US in their trade war. But, crucially, should the economies of the market place and making money trump the economies of nature and survival?

As Conserve Energy Future points out: "Unless you strongly believe in Elon Musk's idea of making Mars as another habitable planet, do remember that there really is no 'Planet B' in this whole universe".

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LAMPIRAN 3  
KOSMO! (NEGARA): MUKA SURAT 17  
TARIKH: 3 JUN 2019 (ISNIN)

# TNB periksa meter pelanggan bil tinggi

**KUALA LUMPUR** - Tenaga Nasional Bhd. (TNB) memaklumkan pihaknya sedang menjalankan kerja-kerja pemeriksaan meter di rumah dan premis pelanggan yang mengadu mengenai bil elektrik yang tinggi.

TNB dalam satu kenyataan semalam memberitahu, pemeriksaan tersebut merupakan langkah bagi merungkai permasalahan mengenai bil tinggi yang dihadapi pelanggan.

“Kami (TNB) menasihatkan pelanggan yang mengalami masalah kenaikan bil elektrik untuk membuat aduan ke Kedai Tenaga dan terus menghubungi TNB CareLine untuk tindakan lanjut.

“Selain membuat aduan, pelanggan juga dikehendaki memeriksa meter elektrik di kediaman atau premis masing-masing,” katanya.

*Kosmo!* baru-baru ini melaporkan, TNB mengambil maklum terhadap rungutan dan aduan pelanggan berhubung bil elektrik yang tinggi.

Malah syarikat utiliti negara itu turut mengulangi komitmen un-



KERATAN *Kosmo!* 1 Jun 2019.

tuk mengkreditkan semula wang ke dalam bil pelanggan sekiranya terbukti terdapat lebih caj yang telah dikenakan kepada mereka.

Presiden dan Ketua Pegawai Eksekutif TNB, Amir Hamzah Azizan berkata, pihaknya telah menubuhkan pasukan khas diketuai Ketua Pegawai Peruncitan TNB, Ir. Megat Jalaluddin Megat Hassan bagi memantau dan menyemak semua aduan diterima daripada pengguna.

Katanya, pasukan itu akan menyiasat punca peningkatan bil elektrik termasuk mengunjungi premis pengguna yang membuat aduan agar mendapat gambaran lebih tepat.

LAMPIRAN 4  
UTUSAN MALAYSIA (DALAM NEGERI): MUKA SURAT 46  
TARIKH: 3 JUN 2019 (ISNIN)

## Isu bil: TNB sedang lakukan yang terbaik

**KUALA LUMPUR 2 Jun** - Tenaga Nasional Berhad (TNB) berkata mereka kini sedang melakukan yang terbaik dalam menyelesaikan isu kenaikan mendadak dalam bil sebahagian pelanggannya secepat mungkin.

“Semua usaha sedang ditumpukan bagi menguruskan isu berkaitan pelanggan kami, berdasarkan kepada laporan atau aduan yang dibuat secara terus kepada kami,” kata Ketua Pegawai Retail TNB, Ir Megat Jalaluddin Megat Hassan kepada *Bernama* hari ini.

“Kami sedang menguruskan kesemua kes dengan hasrat untuk menyelesaikannya secepat mungkin. Pada mereka yang mendapat bil yang terlampau tinggi, sila datang ke Kedai Tenaga atau hubungi pusat Careline kami di talian 1-300-88-5454 supaya kami dapat lakukan pemeriksaan,” katanya.

Megat Jalaluddin berkata, jika pelanggan hadir ke Kedai Tenaga, pihaknya akan membantu untuk membuat pindaan kepada bil mereka, atau untuk mengkreditkan semula bil mereka, jika didapati

Semua usaha sedang ditumpukan bagi menguruskan isu berkaitan pelanggan kami, berdasarkan kepada laporan atau aduan yang dibuat secara terus kepada kami.”

**MEGAT JALALUDDIN  
MEGAT HASSAN**

ia merupakan kesilapan TNB. Beliau mendedahkan, sebahagian pelanggan telah menerima bil prorata disebabkan kelewatan pembacaan meter, disebabkan gangguan ke atas sistem bil ataupun kerosakan komputer.

Sistem mereka telah terganggu antara 15 dan 20 Mei lalu dan telah kembali normal secara berperingkat.

“Walaupun jangka masa bil yang lebih panjang, bil mereka adalah secara prorata seadanya dan tidak terlebih caj,” kata Megat Jalaluddin. - **BERNAMA**



LAMPIRAN 5  
THE SUN (NEWS WITHOUT BORDERS): MUKA SURAT 4  
TARIKH: 3 JUN 2019 (ISNIN)

# TNB addresses concerns over bill hikes

**KUALA LUMPUR:** Tenaga Nasional Berhad (TNB) has assured consumers that it is doing its best to resolve issues related to the recent spike in billing among some of its customers.

"All efforts are focused towards attending to our customers' concerns based on their reports lodged or complaints made directly to us," TNB Chief Retail Officer Ir. Megat Jalaluddin Megat Hassan (*pix*) said yesterday.

"We are attending to all cases to resolve them soonest. For those with exceptionally high bills, please come to Kedai Tenaga or contact our CareLine at 1-300-88-5454 so we can do a

thorough check."

Megat Jalaluddin said that if customers visited Kedai Tenaga, TNB would facilitate adjustments to their bills or to credit back their bills if TNB were found to be at fault.

He revealed that some customers had received pro-rated bills caused by delays in meter readings due to a recent billing system interruption or computer glitch.

The system was interrupted between May 15 and 20 and has been rectified in stages.

"Despite the longer billing period, their bills are pro-rated accordingly and not overcharged," he added. -  
Bernama





LAMPIRAN 6  
SINAR HARIAN (NASIONAL): MUKA SURAT 15  
TARIKH: 3 JUN 2019 (ISNIN)



**[ KLIK ]**

Pekerja teknikal Tenaga Nasional Berhad (TNB) sedang menjalankan kerja-kerja pemeriksaan meter di sebuah rumah pelanggannya di Melaka semalam, bagi membantu merungkalkan permasalahan mengenai bil tinggi yang dilaporkan orang ramai sejak kebelakangan ini.



TNB menasihatkan pelanggan yang mungkin terkesan dengan kenaikan bil elektrik yang tinggi dari kebiasaan untuk membuat laporan dan aduan ke Kedai Tenaga dan menghubungi TNB CareLine di talian 1-300-88-5454 bagi memperinci dan mendapatkan penjelasan. Ia termasuklah membuat pemeriksaan meter di kediaman atau premis masing-masing.

LAMPIRAN 7  
UTUSAN MALAYSIA (DALAM NEGERI): MUKA SURAT 10  
TARIKH: 3 JUN 2019 (ISNIN)

# Lynas: Kerajaan PH tidak konsisten

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■ KANGAR 2 JUN

ISU operasi kilang memproses nadir bumi, Lynas Corporation Ltd. (Lynas) adalah salah satu perkara membuktikan Pakatan Harapan (PH) tidak konsisten dalam dasar yang cuba diketengahkan mereka sekali gus menyebabkan rakyat menjadi keliru.

Naib Ketua Pergerakan Pemuda UMNO, Shahril Sufian Hamdan berkata, hal demikian apabila terdapat kenyataan kontra membatalkan sesetengah pemimpin PH dan Perdana Menteri, Tun Dr. Mahathir Mohamad dalam isu ini.

Dalam masa sama, katanya, isu itu juga adalah antara perkara yang diperjuangkan beberapa pemimpin PH seperti Ahli Parlimen Kuantan, Fuziah Salleh dan Ahli Parlimen Bentong, Wong Tack sejak 10 tahun lalu, namun apabila menjadi kerajaan, mereka masih belum mampu mem-

buat keputusan.

“Isu Lynas sekali lagi membuktikan PH tidak konsisten, dalam dasar dan pegangan politik mereka. Malah, kita juga dapat lihat kenyataan kontra dalam isu Lynas ini, ada pemimpin dalam kerajaan sendiri kata boleh, ada pula kata tak boleh.

“Kenyataan berbeza ini menyebabkan rakyat tidak boleh menilai apa sebenarnya pegangan PH,” katanya kepada *Utusan Malaysia* di sini hari ini.

Semasa dialog dengan Kelab Koresponden Asing Jepun (FCCJ) di Tokyo, Jepun kelmarin, Dr. Mahathir dilaporkan mengumumkan Malaysia akan membenarkan kilang memproses nadir bumi itu untuk terus beroperasi di negara itu.

Pengumuman Perdana Menteri tersebut menamatkan ketidakpastian yang menye-

lubungi masa depan kilang Lynas bernilai AS\$800 juta (RM3.35 bilion) di Gebeng, Kuantan, Pahang itu selepas pembaharuan lesen operasinya digantung sementara.

Sementara itu, Shahril Sufian turut menggesa Fuziah dan Wong Tack iaitu dua pemimpin PH yang begitu lantang menentang operasi kilang memproses nadir bumi itu agar menyatakan pendirian jelas dalam isu tersebut.

Katanya, jika pendirian mereka berbeza dengan Dr. Mahathir

dalam isu berkenaan sila nyatakan bukannya dengan ‘bermain tarik tali’ kerana rakyat sudah muak.

“Nyatakan pendirian dengan jelas sama ada boleh atau tidak kilang berkenaan beroperasi, jangan asyik main kenyataan selamat sahaja. Kita tidak mahu apabila jadi kerajaan, nada pun berubah,” katanya.



SHAHRIL SUFIAN

LAMPIRAN 8  
THE STAR (NATION): MUKA SURAT 7  
TARIKH: 3 JUN 2019 (ISNIN)

## Lim taken to task over remarks on Lynas

**PETALING JAYA:** Datuk Seri Dr Wee Ka Siong has called on Finance Minister Lim Guan Eng to apologise over his “baseless rant” on Lynas.

The MCA president made the call with regard to a video clip, showing Lim, who was then Penang chief minister, berating the rare earth processing plant, saying that the then Pakatan Harapan Opposition was against the “nuclear plant”.

“Now that he has been installed as a very powerful Finance Minister, does he remember the content of the speech he delivered?” Dr Wee said in his Facebook post yesterday.

He called on netizens to reflect on Lim’s speech, including the hashtag #DuluLain-SekarangLain (before it was different, now it is different).

In the one-minute 32-second video clip, Lim can be heard addressing a crowd, saying that Pakatan would oppose Lynas and stop its operations.

Lim also said all Malaysians, irrespective of race, would be affected if the Lynas plant explodes, as there was a nuclear plant.

“Keeping quiet? Where did the nuclear plant go? Still dangerous? Or has the nuclear effect vanished after Pakatan’s rule?” Dr Wee questioned.

“

Keeping quiet? Where did the nuclear plant go? Still dangerous? Or has the nuclear effect vanished after Pakatan’s rule?

**Datuk Seri Dr Wee Ka Siong**

”

He said that Lim should apologise and retract his baseless statement.

On Thursday, Prime Minister Tun Dr Mahathir Mohamad said Malaysia would allow Australian rare earth producer Lynas Corp to keep operating its plant in Gebeng, Pahang.

Dr Mahathir’s comments removed the uncertainty hanging over the future of Lynas’ US\$800mil (RM3.35bil) plant after Malaysia halted the renewing process of its licence due to waste disposal concerns.

Australia has since welcomed the Malaysian government’s intention to renew the operating licence of Lynas.

LAMPIRAN 9  
 THE SUN (NEWS WITHOUT BORDERS): MUKA SURAT 4  
 TARIKH: 3 JUN 2019 (ISNIN)

# 'Turn plastic waste to fuel'

➤ R&D company urges govt to recycle instead of returning it back

BY AMAR SHAH MOHSEN  
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**PETALING JAYA:** A local company has proposed that instead of returning tonnes of contaminated plastic waste to its country of origin, it should be recycled into diesel.

Syngas, that specialises in converting plastic waste into drop-in fuel, said this was a better solution for the government as it was not easy returning the plastic.

Its adviser, Razidan Ghazalli, said recycling the waste into usable fuel would save the government a lot of trouble and also help boost local economy.

"As it is so troublesome to send the waste (450 metric tonnes) back to its country of

How it works			
The Plastic-to-Fuel (PTF) Conversion System works by inserting plastic waste into a 60ft container, which is divided into three compartments of 20ft each.	The first drop of diesel will be produced after three hours. The machine converts one tonne of waste into 1,000 litres of diesel every 24 hours.	The process causes no pollution, and only leaves carbon black, a material produced by incomplete combustion of heavy petroleum products.	Carbon black is used as reinforcing filler in tyres and other rubber products, and as colour pigment in plastics, paints, and inks.

origin, the government should consider converting it into diesel.

"Although we call them waste, they actually have value. They (plastic waste) can be converted into something valuable, like diesel. And we have that solution," he told *theSun* yesterday.

Razidan claimed Syngas' Plastic-to-Fuel (PTF) Conversion System, which was developed in 2008, could depolymerise a tonne of plastic waste into diesel in a single day.

He said the equipment was

also mobile and modular, allowing it to be transported to wherever necessary to conduct the depolymerisation of the waste.

He added that the PTF system also works on most types of plastic, namely high-density and low-density polyethylene, polypropylene and polystyrene, and is also pollution-free.

Razidan, however, lamented the government's lack of interest in Syngas' technology despite the system having been patented in dozens of countries globally and courting the

interest of a couple of other European nations.

He said because of this, it was hard for the company to commercialise its technology and build more such equipment, due to insufficient funding.

"In fact, we have been invited by the Irish government to set up and operate our system there."

"Even foreign governments have faith in our technology. Maybe our ministry doesn't trust local products," Razidan added.



LAMPIRAN 10  
THE STAR (NATION): MUKA SURAT 14  
TARIKH: 3 JUN 2019 (ISNIN)

# NGOs want more companies to protect the environment

By CLARISSA CHUNG  
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**PETALING JAYA:** As environmental issues continue to make headlines in the country, NGOs are calling for private companies to boost efforts on protecting the environment.

News of the Sungai Kim Kim toxic waste dumping and illegal plastic recycling factories have highlighted how business interests must not supersede environmental responsibility.

According to the Department of Statistics Malaysia (DOSM), environmental protection expenditure by private companies has been on an upward trend though it has slowed down in recent years.

The findings released on May 31 showed that companies' spending on environmental protection has increased by an average annual growth rate of 0.8% to RM2.59bil in 2017.

Businesses recorded the largest jump in their environmental protection expenses in 2015, with a 13.7% increase from the year before.

Environmental protection expenditure refers to all expenses incurred by companies to comply with environmental regulations or voluntary agreements.

Pertubuhan Pelindungan Khazanah Alam Malaysia's Selangor chairman Damien Thanam Divean said companies could be complying with eco-friendly practices to appeal to customers.

"However, if the environmentally-friendly

manufacturing process increase costs and reduce profit, corporations will usually refrain from practising them," he said.

He said that while consumer awareness on environmentally safe manufacturing practices had grown, this could be improved further.

"The demand by consumers for eco-friendly practices is expanding but not fast or wide enough to completely revolutionise the current system," he said.

Environmental laws, he said, coupled with strict enforcement must be in place.

He added that active engagement between civil society and private enterprises was also important to bring more eco-friendly business practices.

Environmental activist Puan Sri Shariffa Sabrina Syed Akil also said the increase in companies' expenditure on environmental protection was still not enough.

"The environment has never been a priority in this country," said the Organisation for the Preservation of Natural Heritage Malaysia president.

A strong political will, she said, was needed to ensure that private companies do their part to protect the environment.

"The government can make it compulsory to all companies to plant trees as part of their corporate social responsibility, or clean rivers or beaches.

"They can also reduce taxes for companies that make it a point to use hybrid or electric cars," she said.



LAMPIRAN 11  
 UTUSAN MALAYSIA (FORUM): MUKA SURAT 21  
 TARIKH: 3 JUN 2019 (ISNIN)

**KERAJAAN** Pulau Pinang perlu membatalkan projek penambakan laut di negeri itu yang bakal mengancam kehidupan nelayan. - IHSAN PEMBACA

## Henti pencemaran

**SAUDARA PENGARANG,**

**NASIB** lebih 5,000 nelayan pantai di seluruh Pulau Pinang kini bagaikan telur di hujung tanduk berikutan masalah penambakan laut dan pencemaran yang semakin serius di perairan negeri itu.

Perairan Pulau Pinang bukan sahaja diancam oleh sampah sarap malah bahan-bahan lain seperti sisa buangan kilang, air kumbahan, lumpur dan najis babi mengandungi kimia yang boleh membunuh hidupan laut serta berpotensi menjejaskan kesihatan awam.

Menurut analisis sampel air laut dari perairan Teluk Bahang pada dua minggu lalu oleh Universiti Sains Malaysia (USM), kandungan logam berat nikel adalah 944 peratus lebih daripada standard diluluskan. Kandungan plumbum dan kadmium juga dilaporkan lebih tinggi daripada standard ditetapkan.

Orang ramai dan nelayan yang ditemui oleh Sahabat Alam Malaysia (SAM) juga terkejut apabila dimaklumkan pencemaran logam berat tersebut di perairan Teluk Bahang dan mereka telah bertanya adakah ikan yang ditangkap di perairan berkenaan selamat untuk dimakan?

Tinjauan SAM sejak 10 tahun lalu mendapati ikan, udang, kerang, siput dan ketam yang menjadi sumber tangkapan utama nelayan pantai di negeri itu telah berkurangan dan diancam kepupusan.

SAM kesal kerana sehingga kini tiada maklumat rasmi didedahkan oleh jabatan dan agensi berkaitan tentang tahap pencemaran air laut di perairan Pulau Pinang sehingga menimbulkan persoalan orang ramai tentang apa yang dilakukan oleh pihak berkuasa selama ini.

Jika kerajaan negeri terus leka terhadap isu alam sekitar dan kesannya ke atas kehidupan nelayan pantai, bukan saja hidupan laut akan pupus malah nelayan dan generasi selepas mereka juga akan lenyap pada masa akan datang.

**MEENAKSHI RAMAN**  
 Setiausaha Kehormat SAM

LAMPIRAN 12  
 NEW STRAITS TIMES (BOTS): MUKA SURAT 47  
 TARIKH: 3 JUN 2019 (ISNIN)

# Laws needed to rein in robots

Decades after Isaac Asimov first wrote his laws for robots, their ever-expanding role in our lives, requires a radical new set of rules

**T**HE world has changed since sci-fi author Isaac Asimov in 1942 wrote his three rules for robots, including that they should never harm humans, and today's omnipresent computers and algorithms demand up-to-date measures.

According to Frank Pasquale, author of *The Black Box Society: The Secret Algorithms Behind Money and Information*, four new legally-inspired rules should be applied to robots and AI in our daily lives.

"The first is that robots should complement rather than substitute for professionals" Pasquale said on the sidelines of a robotics conference at the Vatican's Pontifical Academy of Sciences.

"Rather than having a robot doctor, you should hope that you have a doctor who really understands how AI works and gets really good advice from AI, but ultimately it's a doctor's decision to decide what to do and what not to do."

"The second is that we need to stop robotic arms races. There's a lot of people right now who are investing in war robots, military robots, policing robots."

## NO HUMANOIDS

Pasquale, a law lecturer at the University of Maryland, says it's important that any investment in military robotics or AI should provide some advantage that's "not going to be just immediately cancelled out by your enemies".

"It's just depressing. It's money down a hole. You build a robot that can tell if my robot can tell if your robot can tell if my robot is about to attack. It just never ends."

The third, and most controversial, rule is not to make humanoid robots or AI, says Pasquale, citing the example of a Google assistant called Duplex that would call people to confirm hotel reservations without telling them they were talking to a computer.

"There was an immediate backlash to that because people thought that it was Google trying to pass its machines off as a human and I think that counterfeiting principle is the most important one, that we should not counterfeit humanity."

Robots can look humanoid "only if it's, totally necessary to the task", said Pasquale, such as "care robots or sex robots". The fourth and final law is that any robot



Today's omnipresent computers and algorithms demand up-to-date measures.

or AI should be "attributable to or owned by a person or a corporation made of persons because... we know how to punish people but we don't know how to punish machines".

## TWO-TIER TECH

"If we have drones flying about the place that are autonomous, cars that are autonomous, bots online that are speaking on Twitter or in finance trading stocks, all of those have to be attributed to a person."

"There are companies like Facebook where they just fine the company but they never force any person to give up money or be incarcerated for doing something wrong, and that's a problem."

"We've already got a problem with corporations and if we allow robots to be out there without being attributable to a person or corporation it just gets worse," said Pasquale, whose book *New Laws of Robotics* is

due to be published by Harvard University Press.

What must be avoided at all costs is two-tier technology, such as proposed by Boeing for its 737-MAX airliners, grounded after hundreds died in two crashes blamed on a sensor failing because of a software error.

"They made a decision at a very high level that they would allow airlines to buy a second sensor but that would be an extra cost, I think it was 80,000 dollars [RM335] extra per plane, and that to me foreshadows a tonne of problems."

"Part of what the law has to do is step in and say certain of these bargains we're not going to allow, we're going to say we have a standard for flying, it's a single standard it's not like oh I need to look up whether Ryanair, American Airlines or Lufthansa bought the extra sensor, because that's madness."

AFP