

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

Bil	Berita	Media	Capaian Berita Penuh
1.	<u>Program Rebat Bil Elektrik PH, siapa untung?</u> Semalam, Kementerian Tenaga, Sains, Teknologi, Alam Sekitar dan Perubahan iklim (MESTECC) dalam satu kenyataan menyatakan sebanyak 185,000 isi rumah miskin tegar dan miskin akan menikmati rebat elektrik berjumlah RM40 di bawah Program Rebat Bil Elektrik RM40 bermula 1 Januari ini.	Sinar Harian	Klik pada tajuk berita
2.	<u>Association: Power rate hike could cost steel industry RM148m more</u> “Misif is concerned that the plight and trepidations of the industry have hardly been taken into consideration seriously in spite of the numerous engagements with the Energy Commission, Tenaga Nasional Bhd (TNB) and the relevant ministries such as the international trade and industry ministry and the energy, science, technology, environment and climate change ministry,” it said.	The Edge Markets	Klik pada tajuk berita
3.	<u>Smoking is a federal matter</u> Further, in the context of state and federal relations, Parliament is presumed not to encroach upon matters that are within the constitutional authority of a state (Ketua Pengarah Jabatan Alam Sekitar & Anor V Kajing Tubek & Ors And Other Appeals [1997] 3 MLJ 23).	The Star	Klik pada tajuk berita
4.	<u>Fenomena air surut kejadian biasa</u> “Jabatan Meteorologi Malaysia (MetMalaysia) dalam proses mengkaji dari semasa ke semasa bagi memberikan gambaran sebenar berhubung keadaan cuaca terutama pada musim monsun timur laut ini.	Berita Harian	Klik pada tajuk berita

5.	<u>Fenomena alam biasa</u> "Jabatan Meteorologi Malaysia (MetMalaysia) dalam proses mengkaji dari semasa ke semasa bagi memberikan gambaran sebenar berhubung keadaan cuaca terutama pada musim monsun timur laut ini.	Harian Metro	Klik pada tajuk berita
6.	<u>Industri besi, keluli terjejas jika tarif elektrik naik</u> "Kami menyedari bahawa situasi sukar dan kebimbangan industri tidak mungkin diberikan pertimbangan serius walaupun banyak perbincangan bersama Suruhanjaya Tenaga, Tenaga Nasional Berhad (TNB) dan beberapa kementerian seperti Kementerian Perdagangan Antarabangsa dan Industri serta Kementerian Tenaga, Sains, Teknologi, Alam Sekitar dan Perubahan Iklim.	Harian Metro	Rujuk lampiran 1

TEMPATAN

Bil	Berita	Media	Capaian Berita Penuh
7.	<u>Saltwater crocs feeling the heat</u> While many scientists believe that an asteroid wiped out the dinosaurs some 65 millions years ago, crocodiles continue to thrive on earth.	The Star	Rujuk lampiran 2
8.	<u>Ban plastic straws for health's sake</u> I disagree with what a reader wrote to an online news portal about the daily disposal of used plastic straws.	The Star	Rujuk lampiran 3
9.	<u>Industry leaders to chart TVET's path</u> Leaders of Malaysian industries are working with the government to develop a skills standard and syllabus that are of international quality, says Department of Skills Development director-general Nidzam Kamarulzaman.	The Star	Rujuk lampiran 4
10.	<u>Pantai Dungun surut mendadak fenomena alam biasa/ Air surut bukan petanda tsunami</u>	Kosmo	Klik pada tajuk berita atau rujuk lampiran

	Fenomena air Pantai Teluk Lipat berhampiran muara Sungai Dungun surut mendadak pada Selasa lalu berpunca daripada pertembungan air pasang besar yang melanda perairan Terengganu pada awal minggu ini.		5
11.	<u>Air surut luar biasa gemparkan penduduk</u> Fenomena air surut luar biasa di Kuala Sungai Dungun, sejak seminggu lalu menggemparkan penduduk sekitar kerana ia dikatakan yang pertama kali berlaku di kawasan tersebut.	Utusan Malaysia	Klik pada tajuk berita
12.	<u>Celcom Axiata, UiTM jalin kerjasama lahirkan pereka teknologi</u> MoU itu ditandatangani Ketua Pegawai Korporat Celcom, Zuraidda Jamaluddin dan Naib Canselor UiTM, Profesor Emeritus Datuk Dr Hassan Said pada satu majlis di Malaysian Technology Development Corporation (MTDC), UiTM Shah Alam.	Berita Harian	Klik pada tajuk berita
13.	<u>First City University College student wins innovation award</u> Innovation was the theme for this year's edition of ASPac. With the vision to materialise a design that fits the theme, Tham created a triangular orange juice packaging design called "Orange Juice Sacs" which had attractive features on it.	The Sun Daily	Klik pada tajuk berita
14.	<u>Avoid the Kodak, Nokia path</u> At the turn of the century over half of the Fortune 500 companies failed to make the digital shift. Today, businesses are on the cusp of another massive technological revolution. Of this fourth industrial revolution, or 4IR, Satya Nadella, the CEO of Microsoft, opines presciently in his 2017 book Hit Refresh: "Artificial intelligence, mixed reality and quantum computing are going to be game changers... (They) will be more profound in (their) impact on the economy than those revolutions that came before."	New Straits Times	Klik pada tajuk berita
15.	<u>CIDB gubal pelan tindakan IR 4.0 industri</u>	Berita Harian	Klik pada tajuk

	<u>pembinaan</u> Lembaga Pembangunan Industri Pembinaan (CIDB) menerusi anak syarikat milik penuhnya, CIDB e-Construct Services Sdn Bhd (CIDBEC), akan menggubal pelan tindakan Revolusi Industri Keempat 4.0 (IR 4.0) bagi industri pembinaan, menjelang Januari 2020.		berita
16.	<u>CIDB siapkan pelan tindakan Revolusi Perindustrian Keempat</u> Lembaga Pembangunan Industri Pembinaan (CIDB) melalui anak syarikat milik penuhnya, CIDB e-Construct Services Sdn Bhd (CIDBEC), dijangka mewujudkan pelan tindakan Revolusi Perindustrian Keempat (IR 4.0) menjelang Januari 2020.	Berita Harian	Klik pada tajuk berita
17.	<u>CIDB to establish IR 4.0 road map for construction industry</u> The Construction Industry Development Board (CIDB) through its wholly-owned subsidiary, CIDB e-Construct Services Sdn Bhd (CIDBEC), is expected to establish a Fourth Industrial Revolution 4.0 (IR 4.0) roadmap for the construction industry by January 2020. The roadmap will cover a five-year period from 2020.	The Star	Klik pada tajuk berita
18.	<u>Shrinking job options for seniors</u> People are living longer and many jobs are being lost to robotics. There will be an ever increasing problem of an ageing population as well as a new generation of young workers who find it difficult to get jobs.	The Star	Klik pada tajuk berita
19.	<u>Hilton takes green approach</u> "Going Green in the hotel is the 'in' thing now - a global trend. It is one of the ways to save the environment. Two ways to go green are reducing or recycling trash and saving energy," she said after a courtesy call by a delegation from Hilton Kota Kinabalu led by the General Manager Linda Pecoraro.	Daily Express	Klik pada tajuk berita

ANTARABANGSA

Bil	Berita	Media	Capaian Berita Penuh
20.	<u>Carbon set to surge again</u> London: The cost of pollution in the European Union's (EU) cap-and-trade system is likely to surge again next year, contributing to rising electricity costs that are already uncomfortable for industry.	The Star	Rujuk lampiran 6
21.	<u>NGO waspada tsunami kedua</u> NGO-NGO yang menjalankan misi kemanusiaan di sekitar Selatan Sunda telah diingatkan agar berwaspada susulan kemungkinan berlakunya gelombang tsunami kedua dalam masa terdekat.	Sinar harian	Rujuk lampiran 7
22.	<u>28 cedera gempa bumi Etna</u> ROM 27 Dis. - Seramai 28 orang cedera di Sicily dalam bencana gempa bumi yang berlaku akibat letusan Gunung Berapi Etna, lapor agensi berita Xinhua memetik kenyataan pihak berkuasa Itali.	Utusan Malaysia	Klik pada tajuk berita
23.	<u>Gunung berapi di Filipina muntah abu setinggi 600 meter</u> Gunung berapi Filipina paling aktif, Gunung Mayon, telah memuntahkan abu putih kelabu setinggi 500 hingga 600 meter di atas kawah pada pagi Khamis, lapor agensi berita China Xinhua memetik kenyataan seorang ahli vulkanologi Filipina.	Malaysiakini	Klik pada tajuk berita
24.	<u>28 cedera, gempa bumi 4.8 skala Richter</u> ROM 27 Dis. - Pihak Berkuasa Itali mengesahkan seramai 28 orang cedera dalam kejadian gempa bumi yang berlaku disebabkan letusan dari Gunung Berapi Etna di sini semalam.	Utusan Malaysia	Klik pada tajuk berita
25.	<u>Sicily dikejutkan gempa bumi 4.8 magnitud, akibatkan kerosakan dan kecederaan</u> SICILY: Satu kejadian gempa bumi dengan	Astro Awani	Klik pada tajuk berita

	kekuatan 4.8 magnitud menggegarkan kawasan di utara Catania iaitu di cerun Gunung Etna di Sicily pada awal Rabu.		
26.	<u>Gempa bumi di Sicily: 28 cedera, 600 hilang tempat tinggal</u> ROM: Dua puluh lapan orang cedera di Sicily pada Rabu dalam bencana gempa bumi yang berlaku akibat letusan Gunung Etna, lapor agensi berita China Xinhua memetik kenyataan pihak berkuasa Itali.	Astro Awani	Klik pada tajuk berita
27.	<u>Tahi bintang punca kejadian tanah runtuh besar di Rusia</u> Khabarovsk, Rusia – Satu kejadian tanah runtuh besar di timur Rusia dipercayai berlaku akibat impak tahi bintang, dakwa penduduk tempatan.	Kosmo	Rujuk lampiran 8
28.	<u>Lencong penerbangan elak Anak Krakatau</u> Jakarta – Pihak berkuasa Indonesia semalam menaikkan tahap amaran bagi gunung berapi Anak Krakatau kepada tahap kedua tertinggi dan mengarahkan semua penerbangan menjauhi kawasan berkenaan selepas kejadian tsunami yang meragut hampir 430 nyawa.	Kosmo	Rujuk lampiran 9
29.	<u>Gunung Mayon muntahkan debu putih</u> Manila – Gunung berapi paling aktif di Filipina, Gunung Mayon mula memuntahkan kepulan debu putih setinggi 500 hingga 600 meter dari kawahnya pagi semalam, lapor agensi berita Xinhua yang memetik seorang pakar tempatan.	Kosmo	Rujuk lampiran 10
30.	<u>28 cedera akibat gegaran letusan Gunung Etna</u> Rom - Seramai 28 orang cedera di Sicily, Itali kelmarin dalam satu kejadian gempa bumi yang tercetus akibat letusan Gunung Etna, lapor agensi berita Xinhua yang memetik pihak berkuasa Itali.	Kosmo	Rujuk lampiran 11
31.	<u>Bracing for another tsunami</u> Carita : Indonesia has raised the alert level for the erupting Anak Krakatau volcano to the	The Star	Rujuk lampiran 12

	second highest, and ordered all flights to steer clear, days after it triggered a tsunami that killed at least 430 people.		
32.	<u>Indonesia tingkat paras amaran</u> Indonesia, menaikkan amaran gunung berapi tahap kedua tertinggi, semalam ke atas gunung berapi Anak Krakatau yang mencetus tsunami, minggu lalu selepas amaran terdahulu bahawa aktiviti baharu di kawah gunung terbabit mengancam untuk mencetuskan satu lagi gelombang maut.	Berita Harian	Rujuk lampiran 13

LAMPIRAN 1
HARIAN METRO (BISNES): MUKA SURAT 46
TARIKH: 28 DISEMBER 2018 (JUMAAT)

46

bisnes

28-12-2018

Kuala Lumpur: Industri besi dan keluli akan mengalami peningkatan kos pengeluaran daripada RM855 juta kepada RM1 bilion apabila kenaikan tarif elektrik berkuat kuasa pada Mac tahun depan, menurut Persekutuan Industri Besi dan Keluli Malaysia (MISIF).

Kumpulan industri itu berkata, kenaikan tarif elektrik bagi pengguna industri akan mendorong peningkatan kos pengeluaran sekali gus menjejaskan peserta industri tempatan.

"Kami menyedari bahawa situasi sukar dan keimbangan industri tidak mungkin diberikan pertimbangan serius walaupun banyak perbincangan bersama Suruhanjaya Tenaga, Tenaga Nasional Bhd (TNB) dan beberapa kementerian seperti Kementerian Perdagangan Antarabangsa dan Industri serta Kementerian Tenaga, Sains, Teknologi, Alam Sekitar dan Perubahan Iklim.

"Sebagai industri berintensif tenaga, elektrik adalah utiliti penting selain gas asli dan mewakili komponen kos pengeluaran kedua tertinggi selepas bahan mentah untuk industri besi dan keluli," katanya dalam satu kenyataan, semalam.

MISIF berkata, peserta industri berusaha menangani cabaran ini dan pada masa sama mengekang kos masing-masing untuk membolehkan mereka bersaing secara kompetitif dengan pengeluar serantau lain.

"Industri besi dan keluli menghadapi serangan import murah paling buruk dalam tempoh lima tahun.

"Walaupun baru saja pulih, industri mengalami kelemahan disebabkan sentimen susulan perang perdagangan Amerika Syarikat-China serta peningkatan persaingan daripada pengeluaran serantau lain dan penguasaan peserta asing di peringkat tempatan," katanya.



INDUSTRI besi dan keluli dijangka mengalami peningkatan kos pengeluaran mencecah RM1 bilion jika tarif elektrik dinaikkan Mac tahun depan.

Industri besi, keluli terjejas jika tarif elektrik naik

MISIF berharap pihak berkuasa berkaitan akan menghentikan kenaikan berterusan harga elektrik dan sebarang usaha untuk menangguk atau mengurangkan kenaikan tarif elektrik termasuk melarang se-

barang peningkatan pada masa depan bagi gas asli akan membantu melindungi perniagaan itu daripada risiko dan terjejas.

"Penting untuk mengekalkan daya saing kita yang mempunyai kesan meluas

terhadap daya maju dan keselamatan industri strategik bagi pembangunan ekonomi Malaysia," katanya.

Pada 14 Disember lalu, TNB mengumumkan akan menaikkan surcaj ketidakseimbangan pelepasan kos

(ICPT) untuk pengguna bu-
kan isi rumah mulai 1 Mac 2019 untuk mengimbangi kenaikan kos.

Surcaj ICPT akan meningkat kepada 2.55 sen per kWh daripada kadar semasa 1.35 sen per kWh.

LAMPIRAN 2
THE STAR (NATION): MUKA SURAT 15
TARIKH: 28 DISEMBER 2018 (JUMAAT)

Saltwater crocs feeling the heat

Global warming affecting animal's fertility and mortality rate, says expert

By VENESA DEVI
newsdesk@thestar.com.my

PASIR GUDANG: While many scientists believe that an asteroid wiped out the dinosaurs some 65 millions years ago, crocodiles continue to thrive on earth.

However, their existence in the wild is coming under threat today due to global warming.

Crocodile expert Dana Raj Shanmugam, 28, said the increase in temperatures has caused a devastating effect on the saltwater crocodiles' fertility rate.

Statistically, only one out of 100 infant saltwater crocodile survives beyond the first year after hatching from its egg.

"Although adults crocodiles are able to thermoregulate or to crawl to places with the desired temperature, the same could not be said for their young," he said yesterday.

Dana Raj, who works as an assistant manager at the Estuarine Crocodile Sanctuary near Tanjung Langsat Port here, said the extreme and irregular temperatures also affect crocodile eggs.

"These cold-blooded reptiles mate in accordance to the temperature and when it changes so drastically, it affects the crocodiles.

"There is a likely possibility that we may

not get to see an infant crocodile in the wild surviving past the first year in the not so distant future as a result of global warming," he said.

He pointed out that the Estuarine Crocodile Sanctuary here was built in 2009 with the idea of conserving the reptiles, and is now home to some 127 crocodiles from Sarawak, Pahang and Johor.

Dana Raj said the El Nino phenomenon hitting the world in recent years has impacted the mortality rate of the crocodiles here with a number of them dying due to heat stroke.

"Global warming is a real concern not only for the crocodiles but also the mangrove area surrounding this sanctuary.

"Mangrove areas are among the most vulnerable ecosystems especially with the rising sea levels due to global warming," he said.

Dana Raj said the sanctuary's main goal was to save the crocodile from extinction including studying breeding technology for the species.

The sanctuary also promotes educational tourism as visitors learn about crocodiles and the ecosystem.

The Estuarine Crocodile Sanctuary opens daily from 9am to 5pm.

For details, call 07-251 7208 or 07-251 6901 or visit www.sarangbuaya.com.my

LAMPIRAN 3
THE STAR (LETTERS): MUKA SURAT 5
TARIKH: 28 DISEMBER 2018 (JUMAAT)

Ban plastic straws for health's sake

Government's move has support of the people



Beginning Jan 1, plastic drinking straws will not be given out at restaurants unless requested as the Federal Territories Ministry prepares to fully enforce the ban on these straws in 2020.
— Filepic

I DISAGREE with what a reader wrote to an online news portal about the daily disposal of used plastic straws.

He said in reality, it was only a small part of all the plastic waste collected or dumped each day.

He was of the view that the ban imposed on plastics, especially plastic straws, was too harsh.

He went on to validate his case with stories from overseas, urging the local government to make an exception by letting consumers use plastic straws.

This is my personal view.

Nowadays, people are concerned about living a healthy life and are very careful about what they eat and drink.

They, too, know more people are diagnosed with cancer.

The people agree that the Government is doing the right thing by banning the use of plastics, especially drinking straws.

Eating and drinking using plastic utensils, bowls and cups, forks and spoons, chopsticks and wrappers are carcinogenic and could lead to cancer.

Therefore, we should support the Government in banning low quality plastic food containers or bags to hold hot food and hot drinks at all eateries.

Most importantly, this should include plastic drinking straws.

Using low-grade plastic containers, boxes, bags and straws will immediately leach dioxins and other toxic substances into the content.

There are medical reports saying it could be a health hazard to people who use these products too often.



EMAIL metro@thestar.com.my

MAIL The Editor, Metro Mail,
Level 3A, Menara Star, 15,
Jalan 16/11, Section 16,
46350 Petaling Jaya.

Letters must carry the sender's full name,
address telephone number and signature.

A pseudonym may be included. Letters
may be edited for clarity, brevity and
other requirements.

Researchers have also confirmed that dioxins, once consumed, are likely to remain in our body.

We forget how many times we have drank our hot teh tarik or coffee, or hot Milo, from a plastic bag with a plastic straw.

Each time we consume these items, we also consume traces of dioxins.

It is not safe to use plastic straws and regardless of the volume of rubbish collected from used plastic waste and straws, the Government has the people's endorsement to implement the ban.

This is mainly for the sake of public health in the long run.

LAU BING
Community Activist and Writer
Subang Jaya

LAMPIRAN 4
THE STAR (NATION): MUKA SURAT 4
TARIKH: 28 DISEMBER 2018 (JUMAAT)

Industry leaders to chart TVET's path

Move is to develop skill standards to be on par with international levels

By CHRISTINA CHIN and SANDHYA MENON
educate@thestar.com.my

PETALING JAYA: Leaders of Malaysian industries are working with the government to develop a skills standard and syllabus that are of international quality, says Department of Skills Development director-general Nidzam Kamarulzaman.

These industry players, known as Industry Lead Bodies (ILB), want to help ensure Malaysia's TVET is on par with developed nations like Australia and Canada, he said.

"In the next two years, over 30 major TVET (Technical and Vocational Education Training) ILBs will come together to create their own skills standards based on the practices of developed countries," he said.

He said they would work together to capitalise on their strengths as leading companies in their respective fields, and come up with a syllabus for TVET training centres under the skills department.

"This is a step towards a more independent



Star
EDUCATION
FAIR
2019

5-6 JAN 2019 KLCC
KLCC Convention Centre

11am - 7pm

EDUCATION & CAREER TALKS

Studying in Canada -
A World of Possibilities
Awaits.

by Ms. Darcee Munroe,
Senior Trade Commissioner,
High Commission of Canada in Malaysia.

5 January 2019 (Sat), 2.00pm - 2.30pm, Hall 1

FREE
admission

direction for TVET institutes in the country," he said.

In many developed countries, he said, industries take the lead in developing their own skills standards and syllabus for techni-

cal and vocational education.

"They assist the government departments in doing so because they are the experts, they would know better," he said in an interview.

Some of the companies involved, according to Nidzam, are Malaysia Digital Economy Corporation, Malaysian Plastics Manufacturers Association and the Malaysian Association of Hotels.

Nidzam also urged local industries to play a bigger role.

"Come forward to assist the government to overcome prevalent mismatches in skills gap. There is only so much we can do ourselves," he said.

Since TVET training institutes serve to provide skilled manpower as required by the industry, the industry players should thus visit these institutes and identify the problems, and then work on it with the government.

"They can contribute their expertise and resources, such as sharing equipment and

keeping institutes updated on what is relevant to their current needs, rather than having centres blindly churn out graduates, leading to duplication of programmes, oversupply of graduates and mismatch in skills, among other problems.

"This way, we work towards producing graduates according to market needs," he said.

Nidzam said training agencies under the skills department that prescribe to the System Persijilan Kemahiran Malaysia (SPKM) are guided by industry-set standards known as the National Occupational Skills Standard (NOSS).

The SPKM oversees the accreditation and certification of skills training institutes.

He said NOSS is regularly reviewed by the skills department, based on technological changes.

Some of the agencies involved include Institut Latihan Perindustrian, Giat Mara, Federation of JPK Accredited Centres and Institut Kemahiran Tinggi Belia Negara.

LAMPIRAN 5
KOSMO (NEGARA): MUKA SURAT 14
TARIKH: 28 DISEMBER 2018 (JUMAAT)

Merupakan fenomena semula jadi, tidak beri ancaman keselamatan

Air surut bukan petanda tsunami

Oleh MOHD. AZLI ADLAN

KUALA TERENGGANU – Fenomena air Pantai Teluk Lipat berhampiran muara Sungai Dungun surut mendadak pada Selasa lalu berpuncanya daripada pertembungan air pasang besar yang melanda perairan negeri itu awal minggu ini.

Ketua Sekteriat Pengurusan Bencana Terengganu, Che Adam A. Rahman (gambar kecil) berkata, ia merupakan fenomena semula jadi biasa berlaku dan tiada kena-mengena dengan bencana alam, tsunami yang kebetulan melanda negara jiran baru-baru ini.

Beliau berkata, fenomena air laut surut itu bukan sahaja dikesan di Pantai Teluk Lipat tetapi juga di beberapa lokasi lain di Terengganu seperti Pantai



FENOMENA air laut surut di Pantai Teluk Lipat, Dungun Selasa lalu mencetuskan rasa bimbang dalam kalangan penduduk tempatan kerana dikhuatiri petanda tsunami.

Bukit Keluang, Besut.

"Fenomena tersebut telah diramal awal oleh Jabatan Ukur dan Pemetaan serta

Jabatan Saliran dan Pengaliran.

"Pertembungan air pasang besar sebenarnya boleh menyebabkan paras air laut

surut ke tahap maksimum seperti yang berlaku di muara Sungai Dungun dua, tiga hari lalu," katanya menerusi satu kenyataan di sini semalam.

Che Adam yang juga Pengarah Angkatan Pertahanan Awam Malaysia Terengganu berkata, sehari sebelum kejadian, berlaku fenomena air pasang besar sehingga menyebabkan paras air laut meningkat mendadak ke tahap maksimum iaitu antara 2.7 dan 2.8 meter.

Menurut beliau, pertembungan air pasang besar pada 24 Disember lalu itu kemudiannya telah menyebabkan paras air laut surut mendadak sehingga ke tahap maksimum.

"Orang ramai terutama masyarakat setempat tidak perlu risau kerana fenomena ini tidak memberi ancaman keselamatan dan berlaku dalam tempoh pendek.

"Saya juga berharap penularan di media sosial kononnya ia petanda bencana alam dapat dihentikan segera kerana menyebabkan kegusaran ramai," katanya.

LAMPIRAN 6
THE STAR (FOREIGN NEWS): MUKA SURAT 8
TARIKH: 28 DISEMBER 2018 (JUMAAT)

Carbon set to surge again

Contracts may surge again by 20% to near US\$29 a tonne

LONDON: The cost of pollution in the European Union's (EU) cap-and-trade system is likely to surge again next year, contributing to rising electricity costs that are already uncomfortable for industry.

Carbon futures, reflecting the price factories and utilities pay for their emissions, tripled in 2018, making it the best performing major commodity of the year.

Those contracts may surge again in 2019, by 20% to near US\$29 a tonne or more for the first time in more than a decade, according to the median forecast of 13 brokers, analysts and traders surveyed by *Bloomberg*.

The gains are already roiling energy markets, driving up power prices across the continent and giving utilities an incentive to burn more natural gas than coal.

Another surge in 2019 will put under pressure the government officials and lawmakers who were architects of the increase this year as they sought to restore the credibility of carbon as a tool for reining in greenhouse gas emissions.

"There will be rumblings from east European countries and some big energy intensive companies if we hit 35 euros to 40 euros next year," said Jahn Olsen, an analyst at Bloomberg NEF in London.

"The EU might not react if it happens gradually and reaches that level in November or December. Intervention is more likely if we get there in February."

Higher carbon costs have fed through to the cost of electricity, with German, French

The allowance is becoming tighter and tighter, so there isn't much room for selling them.

Eurofer

and British power prices trading well above their five-year average.

It's also kept gas prices stronger than usual for the time of year.

Those gains awakened concerns industry and consumer groups have voiced for years about energy costs in Europe, which in some markets are more than double US levels.

French President Emmanuel Macron this month backed down to protests over fuel taxes, and German chancellor Angela Merkel is working to slow the pace at which coal plants are being closed after an increase in electricity costs.

Large power-consuming industries have expressed their discomfort about recent gains in prices and attributed the shift largely to carbon.

"This pressure will only increase and may cause further competitiveness challenges," Eurofer, the European industry group for metals, said in response to questions.

"The allowance is becoming tighter and tighter, so there isn't much room for selling them. Some producers will already be facing a shortage, and others will soon come up against it."

In normal markets, higher prices encourage more supplies to find their way to market. Not so in carbon, where volumes are fixed by governments. Poland already has asked EU lawmakers to intervene.

The European Commission declined to act. The east European nation will now sell 55.8 million tonnes of EU allowances next year, worth about 1.4 billion euros at current market prices, a move that may mute some of the strength in carbon prices next year.

After six years in the doldrums, carbon allowances on the EU Emissions Trading System came to life at the start of this year following a years-long effort by policy makers to mop up a surplus of the credits that built up since the last recession.

Countries allocated too many carbon allowances and put in place renewables subsidies that helped curtail the need for power from plants that pollute.

The screws on the programme are set to tighten again in the coming years, with governments auctioning 40% fewer allowances starting next year.

"Auction volume is looking pretty poor," said Louis Redshaw, founder of Redshaw Advisors in London, which trades carbon.

"I suspect that many speculators are already positioned long." — Bloomberg

LAMPIRAN 7
SINAR HARIAN (AMUKAN ANAK KRAKATAU): MUKA SURAT 41
TARIKH: 28 DISEMBER 2018 (JUMAAT)

NGO waspada tsunami kedua



RAZIATUL HANUM A. RAJAK

Melaporkan dari
BANTEN, INDONESIA

**Dinding gunung
berapi Anak
Krakatau akan
runtuh bila-bila
masa**

INDONESIA

NGO-NGO yang menjalankan misi kemanusiaan di sekitar Selatan Sunda telah diingatkan agar berwaspada susulan kemungkinan berlakunya gelombang tsunami kedua dalam masa terdekat.

Ketua Umum Badan Komunikasi Pemuda Remaja Masjid Indonesia, Said Aldi Al-Idrus berkata, melalui maklumat diterima, dinding gunung Anak Krakatau akan runtuh



Orang ramai meninjau kesan kemusnahan dari tsunami.

pada bila-bila masa yang akan menyebabkan berlakunya tsunami.

"Kebiasaannya kalau sudah jatuh sebelah, maka dinding sebelahnya akan jatuh pula dalam dua atau tiga hari atupun dalam minggu itu.

"Ini info kita terima dari pihak

berkuasa (Badan Meteorologi Klimatologi dan Geofisika). Seluruh NGO diminta berhati-hati kerana dijangka akan berlaku lagi," katanya kepada Sinar Harian ketika ditemui di bilik kerjanya, semalam.

Sehubungan itu, beliau menye-



Penduduk melihat bangunan yang runtuh.

ru orang ramai agar berhati-hati serta menjauhi kawasan pantai Carita dan Lampung.

"Hari ini berlaku banjir paras dada cuma 200 meter dari posko ini. Kita harus berhati-hati, tsunami sebelum ini berlaku tanpa apa-apa

amaran kerana biasanya aba-aba tsunami itu diperkirakan susulan gempa.

"Tapi sekarang ini gerakan Anak Krakatau menjadi punca tsunami. Tak ada yang boleh memberi kepastian dalam hal sebegini," katanya.

LAMPIRAN 8
KOSMO (DUNIA): MUKA SURAT 41
TARIKH: 28 DISEMBER 2018 (JUMAAT)

Tahi bintang punca kejadian tanah runtuh besar di Rusia

KHABAROVSK, Rusia – Satu kejadian tanah runtuh besar di timur Rusia dipercayai berlaku akibat impak tahi bintang, dakwa penduduk tempatan.

Satu permukaan baharu setinggi 160 meter terbentuk selepas berlaku runtuhan tersebut. Kawasan tersebut sebelum ini merupakan sebuah bukit.

Beberapa keping gambar yang tersebar di internet menunjukkan sebahagian Sungai Bureya sepanjang 628 kilometer terkambus disebabkan runtuhan batu.

Ada laporan mengenai 'batu panas' dan penemuan serpihan tahi bintang malah penduduk berhampiran mendakwa melihat satu gelombang letupan dari kawasan itu, menurut beberapa pakar dari sebuah universiti tempatan di sini.

"Kawasan itu berbau seperti hidrogen sulfida dan asap masih kelihatan di beberapa kawasan. Bucu-bucu ais juga kelihatan nipis seperti direndam dalam air panas. Kami ada menjumpai batu panas yang boleh memanaskan tangan," kata seorang saksi. – Agensi



AGENCI

GAMBAR menunjukkan sebahagian Sungai Bureya ditimbus batu-batu bersaiz besar di wilayah Khabarovsk di Rusia.



AGENCI

IMEJ menunjukkan keadaan asal Sungai Bureya sebelum kejadian tanah runtuh.

LAMPIRAN 9
KOSMO! (DUNIA): MUKA SURAT 42
TARIKH: 28 DISEMBER 2018 (JUMAAT)

Lencong penerbangan elak Anak Krakatau

JAKARTA – Pihak berkuasa Indonesia semalam menaikkan tahap amaran bagi gunung berapi Anak Krakatau kepada tahap kedua tertinggi dan mengarahkan semua penerbangan menjauhi kawasan berkenaan selepas kejadian tsunami yang meragut hampir 430 nyawa.

Satu runtuh kawah kepulauan gunung berapi ketika air laut pasang pada Sabtu lalu menyebabkan ombak setinggi 5 meter membadai kawasan perairan Selat Sunda, di antara Pulau Jawa dan Bali.

Pihak berkuasa memberi amaran bahawa kawah gunung berapi Anak Krakatau masih tidak stabil meningkatkan kebimbangan akan berlaku satu lagi runtuh dan tsunami.

Penduduk diminta menjauhi kawasan pesisir pantai. Terdapat juga kebimbangan bahawa satu letusan lebih besar boleh berlaku.

Gunung berapi itu menjadi aktif sejak Ahad lalu, memuntahkan lahar dan batu, serta abu tebal hingga 3,000 meter di ruang udara.

Agensi Kebangsaan Geologi Indonesia, meningkatkan tahap amaran itu, menetapkan zon eksklusif 5 kilometer di sekeliling gunung berapi itu.

“Sejak 23 Disember lalu, aktiviti



ANTARA FOTO/REUTERS

GAMBAR rakaman udara pada 23 Disember lalu menunjukkan gunung berapi Anak Krakatau memuntahkan abu tebal ketika satu letusan di Selat Sunda, Lampung di Indonesia.

masih belum berhenti. Kami menjangkakan ia akan jadi lebih buruk,” kata setiausaha agensi berkenaan, Antonius Ratdomopurbo.

Satu lapisan nipis abu gunung berapi melitupi bangunan dan kenderaan di kawasan perairan barat Pulau Jawa sejak kelmarin. Penduduk diminta memakai topeng muka dan go-

gel ketika keluar dari rumah.

“Semua penerbangan dilencongkan disebabkan abu gunung berapi Anak Krakatau,” menurut agensi kawalan trafik udara kerajaan Indonesia, AirNav dalam satu kenyataan.

Pihak berkuasa penerbangan awam menyatakan tiada mana-mana lapan terbang akan terjejas. – Reuters

LAMPIRAN 10
KOSMO! (DUNIA): MUKA SURAT 42
TARIKH: 28 DISEMBER 2018 (JUMAAT)



GAMBAR menunjukkan Gunung Mayon di wilayah Albay, Filipina.

Gunung Mayon muntahkan debu putih

MANILA – Gunung berapi paling aktif di Filipina, Gunung Mayon mula memuntahkan kepulan debu putih setinggi 500 hingga 600 meter dari kawahnya pagi semalam, lapor agensi berita *Xinhua* yang memetik seorang pakar tempatan.

Pakar gunung berapi di Institut Vulkanologi dan Seismologi Filipina (Phivolcs), Eduardo Laguerta memberitahu *Xinhua* bahawa letusan air bawah tanah atau letupan disebabkan tekanan wap air berlaku pada pukul 8.17 pagi dan 8.28 pagi (waktu tempatan), namun tiada letusan besar dijangka berlaku.

Phivolcs menyatakan gunung berapi itu berada pada tahap aktif sederhana menyebabkan pihak berkuasa mengeluarkan amaran kepada penduduk setempat agar menjauhi zon seluas 6 kilometer (km) di sekeliling Gunung Mayon.

Gunung berbentuk kon setinggi 2,460 meter itu terletak di wilayah Albay, 300km dari ibu negara Filipina, Manila di Pulau Luzon.

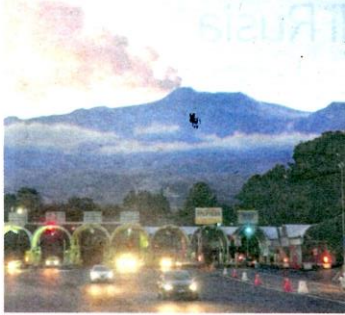
Dalam satu buletin yang dikeluarkan semalam, Phivolcs memberi peringatan bahawa satu letusan mengejut, tumpahan lahar, aliran debu piroklastik tebal dan hujan debu boleh terjadi serta membahayakan kawasan atas dan pertengahan gunung berapi itu.

Institut berkenaan turut merekodkan satu kejadian gempa gunung berapi dalam tempoh 24 jam sebelum letupan disebabkan wap air itu.

Gunung Mayon terkenal dengan bentuk kon yang hampir sempurna tetapi mempunyai sejarah panjang 51 letusan sepanjang 400 tahun lalu yang meragut banyak nyawa. – Bernama

LAMPIRAN 11
KOSMO! (DUNIA): MUKA SURAT 42
TARIKH: 28 DISEMBER 2018 (JUMAAT)

28 cedera akibat gegaran letusan Gunung Etna



KEPULAN asap dari Gunung Etna kelihatan di bandar Giarre, Catania kelmarin.

AFP

ROM – Seramai 28 orang cedera di Sicily, Itali kelmarin dalam satu kejadian gempa bumi yang tercetus akibat letusan Gunung Etna, lapor agensi berita *Xinhua* yang memetik pihak berkuasa Itali.

Letusan gunung berapi itu mengakibatkan gempa bumi sekuat 4.8 pada skala Richter berlaku pada pukul 3.19 pagi (waktu tempatan) dengan kedalaman 1 kilometer (km), menurut Institut Geofizik dan Vulkanologi Itali dalam satu kenyataan.

Pusat gempa terletak beberapa kilometer dari utara Catania, bandar kedua terbesar di Sicily.

Sekurang-kurangnya 10 daripada 28 mangsa cedera dibawa ke hospital dan tidak mengalami kecederaan serius, lapor agensi berita *Ansa*.

Kira-kira 600 penduduk lain terpaksa dipindahkan keluar dari kediaman mereka sebagai langkah berjaga-jaga sejak kelmarin.

Kawasan paling buruk yang terjejas akibat gempa itu adalah di Zafferana Etnea dan Fleri, Catania. Selain itu, empat perbandaran, semua di sekeliling Catania turut terjejas.

Gabenor Sicily, Nello Musumeci menerusi Facebook dan Twitter menyatakan beliau sudah bertemu pihak berkuasa di semua perbandaran yang terjejas kelmarin bagi satu pelan pascabencana.

Gunung Etna setinggi 3,350 meter dari paras laut terletak di bahagian timur Sicily dan merupakan gunung berapi paling besar dan paling tinggi Eropah. – Bernama



REUTERS
BEBERAPA buah kedai rosak teruk selepas satu kejadian gempa bumi di Sicily, Itali kelmarin.

LAMPIRAN 12
THE STAR (WORLD): MUKA SURAT 29
TARIKH: 28 DISEMBER 2018 (JUMAAT)

Bracing for another tsunami



Ready to rumble

An active Anak Krakatau volcano as seen from a ship on the Sunda Strait. Indonesia has raised the alert level for the volcano that sparked a killer tsunami, after previously warning that fresh activity at the crater threatened to launch another deadly wave. — AFP

Indonesia hikes up danger level for erupting Anak Krakatau volcano

CARITA: Indonesia has raised the alert level for the erupting Anak Krakatau volcano to the second highest, and ordered all flights to steer clear, days after it triggered a tsunami that killed at least 430 people.

The government yesterday confirmed that fresh activity at the crater threatened to trigger another deadly wave and also ordered all flights to steer clear of the area.

Authorities also widened a no-go zone around rumbling Anak Krakatau to 5km – up from a previous 2km – and warned shell-shocked residents to stay away from the coast, after more than 400 were killed by Saturday night's wave.

Plumes of ash burst into the sky as pyroclastic flows – hot gas and other volcanic material – flowed down the crater, threatening anyone too close to the volcano and raising the risk of rough seas for boats in the vicinity.

"There is a danger of more eruptions," said national disaster agency spokesman Sutopo Purwo Nugroho.

"People (near the volcano) could be hit by hot rocks, pyroclastic flows and thick ash."

Authorities raised the crater's status to high alert, the second-highest warning on the country's four-point danger scale, while aviation officials ordered flights to be redirected.

The new flows posed no immediate danger to nearby towns as the volcano sits in the middle of the Sunda Strait between Java and Sumatra islands.

But the status change sparked



A beautiful world:

Nine-year-old Suminawati showing her drawing at a relief centre in Kalianda in Lampung province. — AFP

new fears with many residents already scared and refusing to return to their communities over fears of another tsunami.

"This worries me," said Ugi Sugiarti, a cook at the Augusta Hotel in hard-hit Carita. "I've already left."

Sukma, a security guard at the shattered Mutiara Carita Cottages, added: "Just please pray for us and that everything will be okay."

Authorities, however, have warned that the crater of Anak Krakatau, or child of Krakatau, remains fragile, raising fears of another collapse and tsunami, and have urged residents to stay away from the coast.

The volcano has been rumbling on and off since June but has been

particularly active since Sunday, also spewing lava and rocks, and sending huge clouds of ash up to 3,000m into heavily overcast skies.

The national geological agency, in raising the alert level to the second-highest, set the exclusion zone around the island.

"Since Dec 23, activity has not stopped... We now anticipate a further escalation," said Antonius Ratdomopurbo, secretary of the geological agency.

A section of the crater – which emerged at the site of the Krakatau volcano, whose massive 1883 eruption killed at least 36,000 people – collapsed after an eruption and slid into the ocean, triggering Saturday night's killer wave.

Before and after satellite images

taken by Japan's space agency showed that a two square kilometre chunk of the volcanic island had collapsed into the water.

At least 430 people were killed in the disaster, with 1,495 people injured and another 159 missing.

Nearly 22,000 people have also been evacuated and are living in shelters.

Yesterday, the disaster agency said that wind was blowing "ash and sand" from the volcano to the nearby towns of Cilegon and Serang on Java, and advised residents to wear masks and glasses if they had to venture outdoors.

Torrential rains have sparked flooding in some areas, hampering the relief effort and heaping more misery on the stricken region, as

thousands cram emergency shelters.

Medical workers have warned that clean water and medicine supplies were running low – stoking fears of a public health crisis.

Indonesia, a vast South-East Asian archipelago, is one of the most disaster-hit nations on Earth due to its position straddling the so-called Pacific Ring of Fire, where tectonic plates collide.

The tsunami was Indonesia's third major natural disaster in six months, following a series of powerful earthquakes on the island of Lombok in July and August and a quake-tsunami in September that killed around 2,200 people in Palu on Sulawesi island, with thousands more missing and presumed dead.

The disaster agency has said it installed new sensors to better monitor tremors at the volatile volcano.

The agency initially said there was no tsunami threat at all, even as the killer wave crashed ashore.

It was later forced to issue a correction and an apology as it pointed to a lack of early warning systems for the high death toll.

One of the hardest-hit areas – Tanjung Lesung – is on a list of 10 destinations that Jakarta wants to turn into another Bali, the holiday island hotspot which draws millions of tourists annually.

"We need to have (tsunami) early warning systems, especially in tourist destinations," Indonesia's tourism minister Arief Yahya said yesterday.

"We're going to make that happen." — AFP/Reuters

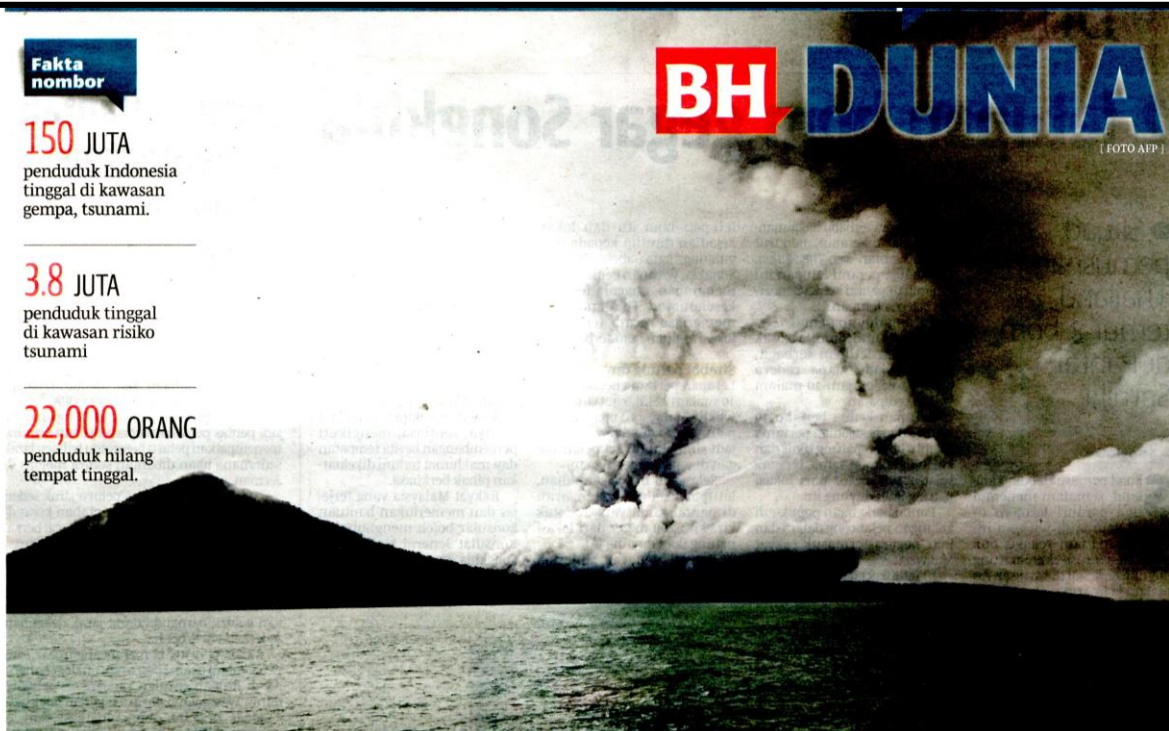
LAMPIRAN 13
BERITA HARIAN (DUNIA): MUKA SURAT 63
TARIKH: 28 DISEMBER 2018 (JUMAAT)

**Fakta
nombor**

150 JUTA
penduduk Indonesia
tinggal di kawasan
gempa, tsunami.

3.8 JUTA
penduduk tinggal
di kawasan risiko
tsunami

22,000 ORANG
penduduk hilang
tempat tinggal.



Anak Krakatau meletus dirakamkan dari sebuah kapal di Selat Sunda, kelmarin memberi amaran bahawa gelombang maut kedua bakal menyusul.

SUSULAN LETUSAN ANAK KRAKATAU, TSUNAMI

Indonesia tingkat paras amaran

➔ Pegawai
penerbangan
arah pesawat
dilencongkan
jauh dari
kawasan bahaya

Carita

Indonesia, menaikkan amaran gunung berapi ke tahap kedua tertinggi, semalam ke atas gunung berapi Anak Krakatau yang mencetus tsunami, minggu lalu selepas amaran terdahulu bahawa aktiviti baharu di kawah gunung terbabit mengancam untuk mencetuskan satu lagi gelombang maut.

Pihak berkuasa juga meluaskan zon larangan di sekitar Anak Krakatau yang aktif sehingga lima kilometer berbanding dua kilometer sebelumnya serta memberi amaran penduduk menjauhkan diri dari pantai selepas lebih 400 orang terbunuh apabila tsunami membadaai malam Sabtu lalu.

Kepulan debu melonjak ke udara sebagai aliran piroklastik (terdiri daripada gas panas dan bahan gunung berapi lain), mengalir ke kawah, mengancam sesiapa yang hampir dengan gunung berapi terbabit serta menaikkan risiko gelombang maut untuk bot dalam lingkungan itu.

"Wujud bahaya lebih banyak letusan. Orang ramai berhampiran gunung berapi mungkin terkena batu, aliran piroklastik dan abu tebal," kata jurucakap agensi bencana kebangsaan, Sutopo Purwo Nugroho.

Pihak berkuasa menaikkan status kawah kepada peringkat tinggi,

amaran kedua tertinggi dalam skala bahaya empat mata negara itu, sementara pegawai penerbangan mengarahkan pesawat dilencongkan jauh dari kawasan itu.

Perubahan corak letusan

"Kami menaikkan status gunung berapi sejak pagi tadi kerana ada perubahan dalam corak letusan," kata pegawai kanan pusat pemantauan Krakatau, Kus Hendratno.

Sementara itu, pihak berkuasa Indonesia mengarah semua penerbangan yang melalui gunung berapi Anak Krakatau di antara pulau Jawa dan Sumatera dilencongkan selepas ia aktif memuntahkan debu ke udara beberapa hari selepas mencetus tsunami yang mengorbankan ratusan nyawa.

"Semua penerbangan dilencongkan berikutan amaran merah akibat debu gunung berapi Anak Krakatau," kata agensi kawalan trafik udara kerajaan, AirNav dalam satu kenyataan.

REUTERS



Kanak-kanak mangsa tsunami menyertai program pemulihan trauma di Labuhan, wilayah Banten, semalam.