

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

Bil	Berita	Media	Capaian Berita Penuh
1.	<p><u>Selangor govt-linked firm eyes 30% stake in Tadmax's Pulau Indah power plant project</u></p> <p>The announcement comes after Energy, Green Technology, Science and Climate Change Minister Yeo Bee Yin said recently that the government will scrap four new independent power producer contracts which were awarded directly.</p>	The Sun Daily	Klik pada tajuk berita
2.	<p><u>Apa status aktiviti bauksit?</u></p> <p>Kementerian Tenaga, Teknologi, Sains, Perubahan Iklim dan Alam Sekitar digesa menyatakan pendirian berhubung status moratorium perlombongan bauksit di Felda Bukit Goh di sini khususnya, sejak ia dilaksanakan pada 15 Januari 2016.</p>	Utusan Malaysia	Klik pada tajuk berita
3.	<p><u>Lesson in safety from teacher's death</u></p> <p>The new government knew there were diesel-powered generators used in schools, as acknowledged by Yeo Bee Yin, the minister in charge of Mestec (Ministry of Energy, Science, Technology, Environment and Climate Change) at her recent townhall meeting with industry stakeholders.</p>	The Star	Klik pada tajuk berita
4.	<p><u>Trans-Sabah pipeline still in limbo</u></p> <p>MYR 3.5 billion (\$863 million) has been spent on the project so far and it is reported to be 11.4% complete, but so far nothing has been built, according to Energy, Technology, Science, Climate Change and Environment Minister Yeo Bee Yin.</p>	Interfax Energy	Klik pada tajuk berita
5.	<p><u>Release details of misappropriation on gas pipeline project – Maximus</u></p> <p>Maximus, the former minister overseeing the project, then known as the Energy, Green Technology and Water Ministry (KeTTHA), said the</p>	The Borneo Post	Klik pada tajuk berita

	TSGP project involved building a 662km gas pipeline from the Kimanis Gas Terminal to Sandakan and Tawau, costing RM4.06 billion, in total.		
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TEMPATAN

Bil	Berita	Media	Capaian Berita Penuh
6.	<p><u>No respite up North</u></p> <p>The unpredictable weather is worrying people in the northern states as they have been warned to brace for more rain and thunderstorms over the next few days.</p>	The Star	Rujuk lampiran 1
7.	<p><u>Pulau Pinang dilanda banjir kilat selepas hujan lebat selama empat jam</u></p> <p>Beberapa kawasan di bandar raya ini ditenggelami air selepas dilanda banjir kilat berikutan hujan lebat selama kira-kira empat jam awal pagi semalam.</p>	KOSMO	Rujuk lampiran 2
8.	<p><u>Pantau guna tenaga jimatkan kos</u></p> <p>Pengenaan surcaj buat kali pertama selepas tujuh kitaran rebat menerusi mekanisme Kos Pelepasan Tidak Seimbang (ICPT) memberi isyarat jelas kepada pengguna komersial bahawa kaedah penggunaan elektrik cekap bukan satu lagi pilihan.</p>	Berita Harian	Rujuk lampiran 3
9.	<p><u>PEKA mahu kerajaan Kedah hentikan projek musnahkan khazanah alam</u></p> <p>Pertubuhan Pelindung Khazanah Alam Malaysia (PEKA) membantah sekeras-kerasnya projek kuari batu kapur di Gunung Pulai disini kerana ia memberi kesan buruk terhadap penduduk di sekitarnya dan khazanah alam.</p>	KOSMO	Rujuk lampiran 4
10.	<p><u>Bekalan air penduduk terancam</u></p> <p>Lebih 10,000 penduduk di daerah ini bakal menghadapi gangguan bekalan air bersih jika</p>	KOSMO	Rujuk lampiran 5

	kerajaan negeri Kedah tidak membatalkan kelulusan yang diberikan untuk projek kuari batu kapur di Gunung Pulai di sini.		
11.	<p><u>Climate and food for thought</u></p> <p>Like all emerging economies, Malaysia is experiencing rapid change. By 2030, more than 80% of Malaysians will live in cities – similar to current urban levels in countries, such as Canada and the United States.</p>	The Star	Klik pada tajuk berita
12.	<p><u>Theatre meets science</u></p> <p>Organised by Petrosains, the International Science Drama Competition is an annual competition aimed to promote science through drama, allowing participants to showcase their scientific knowledge with dramatic flair.</p>	New Straits Times	Rujuk lampiran 6
13.	<p><u>Tadmax, Worldwide ink power plant deal</u></p> <p>Tadmax Resources Bhd has signed a memorandum of understanding with Selangor state-linked company Worldwide Holdings Bhd for the development of a 1,000-1,200 megawatt combined cycle gas turbine power plant in Pulau Indah.</p>	New Straits Times	Rujuk lampiran 7
14.	<p><u>Genetec scraps India ammonia project</u></p> <p>Genetec Technology Bhd will not proceed with a collaboration to develop an ammonia and urea manufacturing plant in Andhra Pradesh, India, as it was unable to ascertain the technical feasibility and economic viability of the proposed project.</p>	New Straits Times	Rujuk lampiran 8
15.	<p><u>Tadmax inks MoU with Selangor-linked Worldwide to develop Pulau Indah power plant</u></p> <p>Tadmax Resources Bhd has signed a Memorandum of Understanding (MoU) with Selangor state-linked company Worldwide Holdings Bhd for the development of 1,000-1,200 MW combined cycle gas turbine power plant in Pulau Indah, Selangor.</p>	The Edge Market	Klik pada tajuk berita
16.	<p><u>Genetec Technology scraps plan to develop urea plant in India</u></p> <p>Genetec Technology Bhd has decided not to proceed with its plan to collaborate with several</p>	The Edge Market	Klik pada tajuk berita

	parties for the development of an ammonia and urea manufacturing plant in India.		
17.	<p><u>Improve regulatory environment for cloud computing, BSA tells Malaysia</u></p> <p>“The government should be aware of the potential bad consequences of adopting cloud technology, but they should not be afraid of their own shadow,” said BSA policy senior director for Asia-Pacific Jared Ragland.</p>	The Edge Market	Klik pada tajuk berita
18.	<p><u>The important role of biotechnology in today’s world</u></p> <p>A biotechnology degree allows students access to any biology-related industry available in the market, says AIMST University Faculty of Applied Sciences dean Prof Manickam Ravichandran.</p>	The Star	Klik pada tajuk berita

ANTARABANGSA

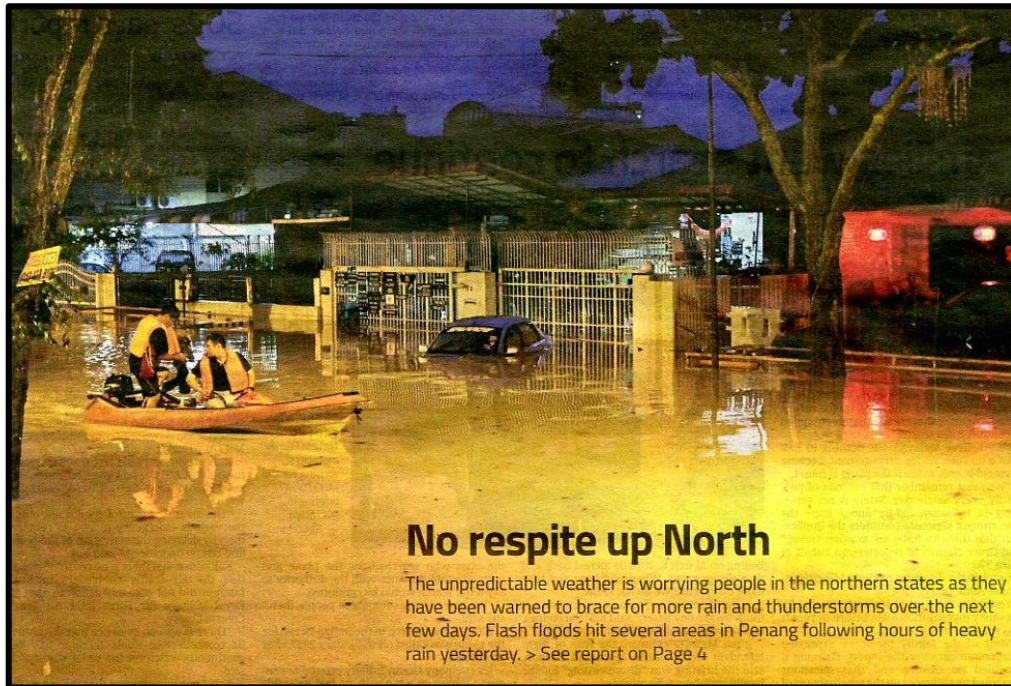
Bil	Berita	Media	Capaian Berita Penuh
19.	<p><u>Climate-hit Caribbean touts new tourism</u></p> <p>Promoter Ryan Kruger scouted five potential locations for his Vujaday techno festival before opting to hold the five-day event in Barbados, flying in DJs to play around 1,500 party-goers at a string of dramatic locations around the island in April.</p>	Malay Mail	Rujuk lampiran 9
20.	<p><u>To the end of the Earth</u></p> <p>In line with his dedication to recycling and to keeping Antarctica pristine, Swan and a team of people also spent eight years raising funds and executing a special mission – to remove and fully recycle 1,500 tonnes of steel waste left over after years of scientific research.</p>	The Star	Rujuk lampiran 10

21.	<p><u>Hikers get off volcano</u></p> <p>Groups of hikers began to pick their way down the slopes of a Lombok volcano yesterday after a deadly earthquake triggered landslides that trapped more than 500 tourists and guides on the mountain.</p>	New Straits Times	Rujuk lampiran 11
22.	<p><u>Fish-filled water floods hospital in northeast India</u></p> <p>Dirty water with fish squirming around flooded a hospital in northeast India after monsoon rain and at least 80 people died within days in one state in weather-related accidents, officials said.</p>	The Star	Rujuk lampiran 12
23.	<p><u>25 reported missing in Greek wildfire, death toll increases</u></p> <p>Fire officials in Greece raised the death toll from a wildfire that raged through a coastal area east of Athens to 91 and reported that 25 people were missing, six days after Europe's deadliest forest fire in more than a century.</p>	The Star	Rujuk lampiran 13
24.	<p><u>Iraqi farmers fight to save cattle from drought</u></p> <p>Iraqi farmer Sayyed Sattar knows he will soon have to let some of his buffalo go as he surveys the herd bathing in a dwindling pond close to the holy city of Najaf.</p>	Malay Mail	Rujuk lampiran 3
25.	<p><u>Sisa serbuk kopi sumber tenaga</u></p> <p>Berjuta-juta penduduk dunia meminum kopi atas alasan untukmenghilangkan rasa mengantuk atau memberikan tenaga.</p>	Utusan Malaysia	Rujuk lampiran 14
26.	<p><u>'Saya fikir akan mati'</u></p> <p>"Saya fikir saya akan mati," kata seorang rakyat Amerika Syarikat (AS), John Robyn Buenavista semasa menceritakan detik berlakunya gempa bumi 6.4 Richter di Pulau Lombok semalam yang meragut nyawa 16 orang dan lebih 335 lagi cedera.</p>	Utusan Malaysia	Klik pada tajuk berita
27.	<p><u>The Big Chill: Highview's Solution To The Challenge Of Long-Duration Energy Storage</u></p> <p>Three weeks after the June launch, Highview announced the hiring of Javier Cavada, who had previously served as President of Finnish energy</p>	Forbes	Klik pada tajuk berita

	giant Wärtsilä's Energy Solutions division and Executive Vice President, as their new CEO.		
28.	<p><u>Provinces adopt climate-change mitigation plan</u></p> <p>An Internationally funded climate policy project is now being implemented in all 77 provinces of Thailand, as Thailand and Germany partner to develop policies and plans around preventing climate change, relief and adaptation at the local and regional levels.</p>	The Nation	Klik pada tajuk berita
29.	<p><u>Artificial intelligence: Let the researchers plug holes and minimise the error</u></p> <p>It seems artificial intelligence (AI) machines are prone to hacker attacks that can fool them to behave 'irrationally'. Earlier this month in Stockholm, at an International Conference on Machine Learning, a group of researchers from Massachusetts Institute of Technology described in a paper a 3D-printed turtle.</p>	The Economic Times	Klik pada tajuk berita
30.	<p><u>Company Briefs: China Environment</u></p> <p>The terms include full and final settlement of all claims between the parties, not only in relation to the suit, but also all issues outstanding and that may arise in the future, said China Environment, an industrial waste gas treatment company.</p>	The Straits Times	Klik pada tajuk berita
31.	<p><u>Feeling the heat of climate change</u></p> <p>The heat wave that has descended upon Japan has claimed dozens of lives. According to the Fire and Disaster Management Agency, 65 people died from heat-related illnesses and 22,647 people were emergency-treated for heat stroke in one week in mid-July, the most in a decade.</p>	The Japan Times	Klik pada tajuk berita
32.	<p><u>Globe editorial: Let science and scientists speak for themselves</u></p> <p>The scientific method is about ascertaining truth or, failing that, getting as close to it as humanly possible. It's not infallible, and experimental research often raises more questions than it answers.</p>	The Globe and Mail	Klik pada tajuk berita

33.	<p><u>Victoria's 'major' concerns may prevent it signing national energy guarantee</u></p> <p>The state's energy minister Lily D'Ambrosio argues it would be a leap of faith to sign up when the Coalition party room is yet to formally tick off on the emissions reduction component of the Neg, and when federal government MPs are acting like "coal ideologues".</p>	The Guardian	Klik pada tajuk berita
34.	<p><u>Tapping Dirt Bike Culture To Teach STEM Skills</u></p> <p>But dirt bike proponents say otherwise. In fact, engineer and technology instructor Brittany Young sees the vehicles and the culture that's grown up around them as not only a positive force, but a route to teaching young minorities STEM skills.</p>	Forbes	Klik pada tajuk berita

LAMPIRAN 1
THE STAR: MUKA SURAT 4
TARIKH: 31 JULAI 2018 (SELASA)



No respite up North

The unpredictable weather is worrying people in the northern states as they have been warned to brace for more rain and thunderstorms over the next few days. Flash floods hit several areas in Penang following hours of heavy rain yesterday. > See report on Page 4

More thunderstorms expected up north

By **CHONG KAH YUAN** and **N. TRISHA**
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GEORGE TOWN: People in the northern states should brace themselves for more rain and thunderstorms over the next few days.

The Malaysian Meteorological Department (MMD) has forecast thunderstorms until tomorrow.

The state Fire and Rescue Department operations assistant director Mohd Hafiz Hafizal Timarabin said they were prepared for the bad weather.

"The MMD usually updates us four times a day about current and upcoming weather conditions.

"The weather has been unpredictable lately so it may not be the rainy season, but for the past few weeks there have been bouts of heavy rain.

"We have made sure that we are prepared both on the island and mainland. We have our boats, four wheelers and even a three-tonne lorry on standby.

"Instructions have been given to the Paya Terubong and Perak Road fire stations on the island, as well as the ones in Kepala Batas and Butterworth to make sure they are prepared with their boats and equipment," Mohd Hafuz said.

The department's operations officer Supt Nafis Aliff Abdullah said all their boats and four wheelers were in tip-top condition in case of an emergency.

"We are always prepared, especially at night. If we feel the weather is bad, we head out to monitor low-lying areas such as Datuk Keramat, Jalan P. Ramlee, Bagan Jermal and Hong Seng Estate, among others.

"We always have 160 firemen or 80% of our



After-effects:

Part of the road along Lebuh raya Thean Teik in Penang, which was damaged due to flash floods. — Photo taken from the FarlimCP Facebook page

total manpower working, so there are always enough people on duty. We also have 30 boats and 23 four wheelers statewide," he said.

Supt Nafis added that floods this time were not as bad as the Nov 4 and 5 floods last year.

State Public Works, Utilities and Flood Mitigation Committee chairman Zairil Khir Johari said many of the locations hit by flash floods in the northeast district were linked to the Sungai Pinang water catchment area.

"The problem will not be solved until the Sungai Pinang Flood Mitigation Plan is carried out. Following a discussion with the Federal Government, the flood mitigation plan has been given approval after a 20-year delay.

"We are now in the process of appointing a consultant for detailed design before appointing the contractor," he said in a statement.

Zairil urged the people to be patient, as the infrastructure project of such a scale would take time.

Penang Welfare, Caring Society and Environment Committee chairman Phee Boon Poh said the state made multiple preparations, including making sure that relief centres were ready and the delivery of more boats to voluntary firemen.

"Masjid Hashim Yahya in Jalan Perak was among the relief centres opened yesterday to accommodate eight flood victims."

Flash floods hit several areas in Penang after heavy rain throughout the night and into the wee hours of yesterday morning.

The state was hit by widespread floods on Nov 4 and 5 last year, resulting in the evacuation of 12,559 people and the loss of seven lives.

Watch the video
thetartv.com



LAMPIRAN 2
KOSMO (NEGARA): MUKA SURAT 17
TARIKH: 31 JULAI 2018 (SELASA)



ANGGOTA Bomba membawa beberapa penduduk yang terperangkap akibat banjir kilat menaiki bot di Jalan P. Ramlee, George Town semalam.



SEORANG bapa terpaksa meredah air untuk menghantar anaknya ke sekolah ketika banjir kilat di George Town semalam.

Pulau Pinang dilanda banjir kilat selepas hujan lebat empat jam

GEORGE TOWN – Beberapa kawasan di bandar raya ini ditenggelami air selepas dilanda banjir kilat berikutan hujan lebat selama kira-kira empat jam awal pagi semalam.

Hujan yang bermula kira-kira pukul 2 pagi itu diburukkan lagi dengan keadaan air laut pasang sehingga menyebabkan air sungai melimpah terutamanya di

daerah Timur Laut di sini.

Antara kawasan yang terjejas termasuklah Jalan P. Ramlee, Lintang P. Ramlee, Lorong Kulit, Kampung Masjid, Jalan Terengganu, Jalan Gemas, Jalan Langkawi dan Taman Abidin.

Turut terjejas ialah sekitar Masjid Rawana, Persiaran Perak, Astaka Stadium Bandaraya, Sungai Relau, Sungai Air Putih

dan Sungai Dondang apabila dinaiki air antara 0.3 meter (m) sehingga 0.6m.

Sebuah pusat pemindahan banjir di Masjid Hashim Yahya dibuka bermula pukul 7.45 pagi dengan menempatkan lapan orang mangsa selepas rumah mereka dinaiki air.

Difahamkan, air kembali surut selepas hujan reda kira-kira

pukul 7 pagi.

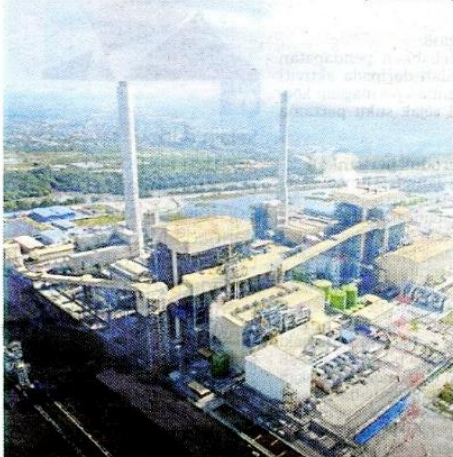
Sementara itu, Exco Kerja Raya, Utiliti dan Tebatan Banjir negeri, Zairil Khir Johari berkata, masalah banjir di kawasan berkenaan dijangka selesai apabila projek Rancangan Tebaran Banjir Sungai Pinang dilaksanakan berikutan kedudukannya di kawasan lembangan Sungai Pinang.

“Projek itu yang sebelum ini tergendala selama 20 tahun telah diberi kelulusan untuk dilaksanakan selepas perbincangan dengan kerajaan Persekutuan baru-baru ini.

“Rakyat dipohon untuk sabar kerana projek infrastruktur yang besar ini memerlukan masa untuk dilaksanakan,” katanya dalam satu kenyataan semalam.

Pantau guna tenaga jimatkan kos

[FOTO HIASAN]



Dengan harga arang batu dan gas semasa yang terus naik, pengguna komersial dan industri tidak boleh lagi mengharapkan rebat ICPT akan berterusan.

➔ Energy Watch dididik pengguna komersial guna elektrik dengan cekap

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Penggunaan surcaj buat kali pertama selepas tujuh kitaran rebat menerusi mekanisme Kos Pelepasan Tidak Seimbang (ICPT) memberi isyarat jelas kepada pengguna komersial bahawa kaedah penggunaan elektrik cekap bukan lagi satu pilihan.

Dengan harga arang batu dan gas semasa yang terus naik, pengguna komersial dan industri tidak boleh lagi mengharapkan rebat ICPT akan berterusan.

Ditambah pula dengan

kedua-dua bahan api itu diimport, nilai ringgit yang lemah akan terus meningkatkan lagi harga komoditi berkenaan, sekali gus menaikkan kos penja-
naan.

Suruhanjaya Tenaga pada 28 Jun lalu meluluskan pelaksanaan surcaj ICPT bagi tempoh 1 Julai hingga 31 Disember 2018.

Walaupun kadar purata Tarif Asas tidak berubah pada 39.45 sen/kWh, peningkatan kos bahan api dan penjaan bagi tempoh 1 Januari hingga 30 Jun 2018 membabitkan kos surcaj sebanyak RM698.19 juta atau 1.35 sen/kWh akan dilepaskan kepada pengguna komersial dan industri menerusi mekanisme ICPT.

Sementara bagi 81.7 peratus pengguna domestik tidak akan terjejas oleh pelaksanaan ICPT berikutan penggunaan bulanan mereka di bawah 300kWj (RM77) adalah dikecualikan daripada pelaksanaan ICPT.

Untuk pengguna domestik dengan penggunaan elektrik melebihi 300kWj (RM77) pula, kerajaan membelanjakan RM114 juta daripada dana Kumpulan Wang Industri Elektrik (KWIE) untuk menampung bayaran surcaj terbabit.

Sehubungan itu, pengguna industri dan komersial perlu mengambil langkah untuk menampung kesan surcaj menerusi pelbagai langkah menjadi pengguna elektrik yang bijak.

Berbelanja dahulu untuk berjimat

Portal Energy Watch Malaysia menerusi energywatch.com.my umpamanya menggariskan pelbagai kaedah untuk pengguna komersial menggunakan tenaga dengan cekap.

Antaranya, amalan penggunaan tenaga secara cekap, penggunaan Penyelesaian Faktor Tenaga, Audit Tenaga dan skim Energy Performance Contracting (EPC).

Menerusi Penyelesaian Faktor Tenaga, iaitu kaedah yang mengukur sejauh mana tenaga yang disa-

lurkan digunakan dengan cekap menggunakan Indeks Faktor Tenaga, pengguna boleh berjimat hingga 20 peratus.

Ini berikutan pengguna bukan domestik yang mendapat bekalan 132kV dan ke atas, faktor surcaj tenaga dikenakan jika bacaan faktor tenaga di bawah 0.90.

Bagi yang mendapat bekalan di bawah 132kV pula, faktor surcaj tenaga juga dikenakan jika bacaan faktor tenaga mereka di bawah 0.85.

Dengan erti kata lain, bacaan di bawah skala berkenaan menjadi penanda aras untuk pengguna mengenal pasti langkah untuk meningkatkan kecekapan penggunaan tenaga sekali gus mengelakkan surcaj faktor tenaga.

"Dalam satu kaji selidik pada 2013, pelaburan awal sebanyak RM15,000 untuk melengkapkan sistem Penyelesaian Faktor Tenaga di sebuah bangunan pejabat 12 tingkat, akhirnya diterjemahkan dengan penjimatan sebanyak RM300,000 setahun," kata Energy Watch.

Bagaimanapun menurut Energy Watch, cabaran utama adalah meyakinkan pengguna industri dan komersial bahawa mereka perlu berbelanja dahulu untuk berjimat.

"Apabila dimaklumkan kepada sesebuah organisasi bahawa mereka boleh berjimat 50 peratus daripada kos tenaga, tetapi perlu membuat sedikit pelaburan awal, banyak yang ragu-ragu."

Peningkatan harga

Dalam pada itu, walaupun penganalisis berkata, kesan ICPT adalah neutral kepada TNB, arah aliran peningkatan berterusan harga arang batu dan gas berkehendakkan pengguna (terutama komersial dan industri) melakukan sesuatu, iaitu menggunakan elektrik dengan cekap bagi mengurangkan kos operasi mereka.

Harga arang batu dunia kini sudah mencecah paras tertinggi enam tahun pada Julai.

Sektor penjaan di Semenanjung bergantung kepada arang batu (53 peratus), 42 peratus gas asli dan hidro (5 peratus).

Lebih 60 peratus arang batu diimport dari Indone-

sia manakala lebih 20 peratus dari Australia.

Harga arang batu Australia mencecah AS\$120 satu tan, tertinggi sejak 2012 manakala harga rujukan bagi arang batu Indonesia pada AS\$104.65 bagi Julai, naik 32.6 peratus berbanding tempoh sama tahun lalu.

TNB sebagai antara penjaan tenaga terbesar Malaysia, menggunakan 7.1 juta tan arang batu bagi tempoh suku pertama tahun ini berakhir 31 Mac 2018.

Jadi, peningkatan berterusan kos penjaan perlu diselenggarakan menerusi mekanisme ICPT.

Di Semenanjung, tarif elektrik ditentukan kerajaan menerusi rangka kerja yang diiktiraf di seluruh dunia, iaitu Kawal Selia Berasaskan Insentif (IBR).

Daripada IBR wujudnya mekanisme ICPT yang membolehkan pelarasan harga bahan api untuk sektor tenaga ditentukan setiap enam bulan. Perubahan harga bahan api untuk penjaan dicerminkan menerusi kadar rebat atau surcaj.

Tempoh Pengawalselenggaraan (RP) pertama ICPT bermula pada Januari 2015 hingga Disember 2017.

Kos penjaan terus naik

RP Kedua bermula tahun ini hingga 2020. Dalam RP pertama, sebahagian daripada peningkatan kos bahan api ditampung Kumpulan Wang Industri Elektrik (KWIE).

Dana ini diperolehi daripada penjimatan rundingan semula perjanjian pembelian tenaga (PPA).

Penggunaan dana ini menampung peningkatan harga arang batu dan kesan kadar tukaran asing.

Dalam RP pertama, rebat berjumlah RM6.3 bilion disalurkan kepada pengguna.

Bagaimanapun, dengan kadar kenaikan harga arang batu dan gas yang tidak terbandung serta ditokok kelemahan ringgit, kos penjaan akan terus meningkat dan pengguna, terutama sektor komersial dan industri perlu mengambil inisiatif beralih kepada kaedah penggunaan tenaga cekap seperti yang digariskan Energy Watch, umpamanya.

LAMPIRAN 4
KOSMO (NEGARA): MUKA SURAT 15
TARIKH: 31 JULAI 2018 (SELASA)

PEKA mahu kerajaan Kedah hentikan projek musnahkan khazanah alam

BALING – Pertubuhan Pelindung Khazanah Alam Malaysia (PEKA) membantah sekeras-kerasnya projek kuari batu kapur di Gunung Pulai di sini kerana ia memberi kesan buruk terhadap penduduk di sekitarnya dan khazanah alam.

Presidennya, Puan Sri Shariffa Sabrina Syed Akil berkata, kerajaan negeri Kedah perlu menghentikan serta-merta permit operasi projek kuari terutama kepada syarikat yang menjalankan

aktiviti berdekatan dengan kawasan kediaman penduduk kampung.

"Kita membantah sekeras-kerasnya pembinaan kilang kuari yang telah mula diuji kaji kemampatan dan kualiti batu kapur yang dikatakan bermutu tinggi.

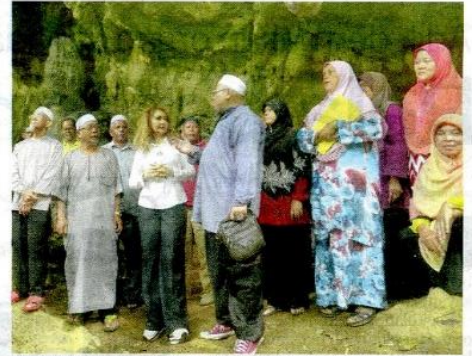
"Pelbagai penyakit sampingan kesan daripada kegiatan projek kuari itu bakal dihadapi penduduk sekiranya ia diteruskan oleh kerajaan negeri," katanya kepada

Kosmo! semalam.

Shariffa Sabrina memberitahu, selain itu, alam semula jadi yang terdapat di sekitar Gunung Pulai juga bakal terancam.

"Khazanah alam yang terdapat di Gunung Pulai boleh musnah sama sekali untuk generasi akan datang sekiranya projek itu diteruskan.

"Satu akta baharu juga perlu diwujudkan bagi mengawal selia dengan ketat isu pemberian lesen kepada pengusaha kuari agar mereka mematuhi peraturan," ujarnya.



SHARIFFA SABRINA (tiga dari kiri) mendengar keluhan penduduk mengenai projek kuari di Gua Matahari di Gunung Pulai, Baling kelmarin.

LAMPIRAN 5
KOSMO (NEGARA): MUKA SURAT 15
TARIKH: 31 JULAI 2018 (SELASA)

Projek kuari batu kapur di Gunung Pulai bakal jeaskan keindahan alam sekitar

Bekalan air penduduk terancam

Oleh AZHAR AHMAD

BALING — Lebih 10,000 penduduk di daerah ini bakal menghadapi gangguan bekalan air bersih jika kerajaan negeri Kedah tidak membatalkan kelulusan yang diberikan untuk projek kuari batu kapur di Gunung Pulai di sini.

Pengerusi Jawatankuasa Bertindak Selamatkan Gunung Pulai, Mohd. Sabri Mahmood, 51, berkata, dia bimbang kerakusan syarikat kuari terbabit milik Yayasan Islam Negeri Kedah akan menjejaskan Loji Air Sungai Limau yang mengambil sumber air daripada Sungai Ketil.

Menurutnya, lima kampung yang dijangka terjejas akibat projek kuari itu ialah Kampung Tok Bandar, Kampung Pauh Rusa, Kampung Che Wan Yusof, Kampung Tok Saban serta Kampung Sungai Limau.

Gunung Pulai terletak kurang 300 meter dari kediaman penduduk berkenaan.

"Lebih air daripada sisa kuari itu dikuatiri akan mengalir ke dalam sungai yang jaraknya hanya dalam lingkungan 100 meter dari Sungai Ketil.

"Air Sungai Ketil itu kemudiannya akan mengalir ke Loji Air Sungai Limau untuk diproses bagi membekalkan air bersih kepada penduduk," katanya ketika ditemui *Kosmo!* di sini semalam.

Mohd. Sabri memberitahu, sumber air Sungai Ketil juga digunakan oleh Jabatan Pengairan dan Saliran untuk disalurkan



KAMPUNG Tok Bandar terletak berdekatan dengan projek kuari batu kapur di Gunung Pulai, Baling.



SUNGAI Ketil yang menjadi sumber air mentah bakal terjejas jika projek kuari batu kapur diteruskan di Gunung Pulai, Baling.



MOHD. SABRI

NORMA

INTAN FARHANA



KERATAN *Kosmo!* semalam.

kepada para pesawah di kawasan itu yang terletak kurang 400 meter dari tapak kuari.

Katanya, kewujudan kilang kuari batu kapur di Gunung Pulai juga akan mendatangkan bahaya kepada penduduk kampung seperti mereka terpaksa berkongsi jalan dengan lori-lori yang mengangkut batu kuari.

"Selain itu, kesihatan penduduk juga boleh ter-

jejas, misalnya debu daripada lori-lori yang melalui jalan kampung akan mengganggu keselesaan mereka," ujarnya.

Seorang penduduk Kampung Tok Bandar, Norma Ahmad, 50, juga membantah pelaksanaan projek terbabit yang didakwa tidak menguntungkan mereka malah membawa kesan buruk.

"Gunung Pulai menjadi tarikan utama kepada ak-

tiviti pelancongan apabila setiap minggu terdapat pelajar-pelajar dan pengunjung luar datang mendaki gunung berkenaan.

"Mereka juga ingin melihat pembentukan gua-gua batu kapur yang cantik

seperti Gua Kelambu, Gua Hang Putih, Gua Ikan, Gua Matahari, Gua Layang-layang, Gua Tembus serta Gua Bunian," jelasnya.

Sementara itu, seorang pelajar Universiti Malaysia Terengganu, Intan Farhana Mohd. Saberi, 22,

INFO Gunung Pulai

- Jarak kira-kira 105 kilometer atau mengambil masa selama 1 jam 40 minit dari Bandaraya Alor Setar ke daerah Baling, Kedah
- Merupakan gua batu kapur
- Ketinggian 620 meter dari aras laut
- Terdapat pelbagai tumbuhan termasuk pokok Paku Aji yang terancam dan hanya didapati di Gunung Pulai
- Menjadi habitat burung layang-layang dan kelawar
- Pusat rekreasi pelancong untuk mendaki pada hujung minggu

INFO Peta Gunung Pulai



juga kesal dengan tindakan segelintir pihak yang cuba merosakkan "keindahan Gunung Pulai.

"Kami minta kerajaan negeri dapat mengambil tindakan bagi menghentikan serta-merta projek kuari batu kapur di sini agar Gunung Pulai tidak akan dimusnahkan," ujarnya.

Kosmo! semalam melaporkan, kerajaan negeri bercadang membatalkan projek kuari batu kapur itu kerana dikuatiri memberi ancaman kepada alam sekitar dan keselamatan penduduk.

Pengerusi Jawatankuasa Hal Ehwal Masyarakat Cina dan Siam, Sumber Tenaga Manusia dan Alam Sekitar negeri, Simon Ooi Tze Min berkata, pembatalan projek itu bagaimanapun, memerlukan satu kajian terperinci sebelum keputusan dibuat.

LAMPIRAN 6
NEW STRAITS TIMES (SCHOOL TIMES): MUKA SURAT 12
TARIKH: 31 JULAI 2018 (SELASA)

Theatre meets science



The winner from Sekolah Jenis Kebangsaan Tamil, Masai, Johor with Petrosains' chief executive officer Tengku Nasariah Tengku Syed Ibrahim (standing in green).

Six primary school teams and five open category teams from Malaysia, Singapore, Brunei, China, Philippines and Thailand battled it out on stage in the Grand Finals of the International Science Drama Competition 2018. Each team presented a seven minutes drama on stage to showcase a science concept based on the theme "Science of Sports".

Infinity F.I.T.T., the team from Sekolah

Jenis Kebangsaan Tamil (SJKT) Masai, Johor won the Primary School category, while second place went to team Sport On! from Kuo Chuan Presbyterian Primary School, Singapore. Third place went to Varee Young Scientist Club from Varee Chiangmai International School, Thailand.

Organised by Petrosains, the International Science Drama Competition is an annual competition aimed to promote science

through drama, allowing participants to showcase their scientific knowledge with dramatic flair. The competition involves primary school teams from Malaysia, Singapore and the Asia Pacific region as well as teams from the public.

Participation for the International competition is opened to two categories: the primary school category for primary school pupils and the open category for members of

the public. Participants are required to form a maximum of 15 cast members and perform a skit which must combine scientific content and drama.

At the Malaysian level, the competition has garnered higher participation from schools with more than 20 entries received from primary school teams nationwide. Seven best teams under the primary school category were shortlisted and competed in the Malaysian Finals on June 30 2018.

For the open category, the teams were shortlisted based on the videos which were submitted online.

The mechanics of this competition is reflective of Petrosains' learning approach where different techniques such as performing arts are used to spark interest, inspire passion in science and encourage creativity among students.

In her speech, Petrosains chief executive officer, Tengku Nasariah Syed Ibrahim said: "The competition has helped the students to be more motivated and inspired towards science. We hope that by participating in this competition, it will allow the students to understand and appreciate science better while encouraging them to think creatively when presenting the science concepts in their drama performance."

"We also hope that the competition will help build the students confidence and ability to communicate effectively on stage in front of the public."

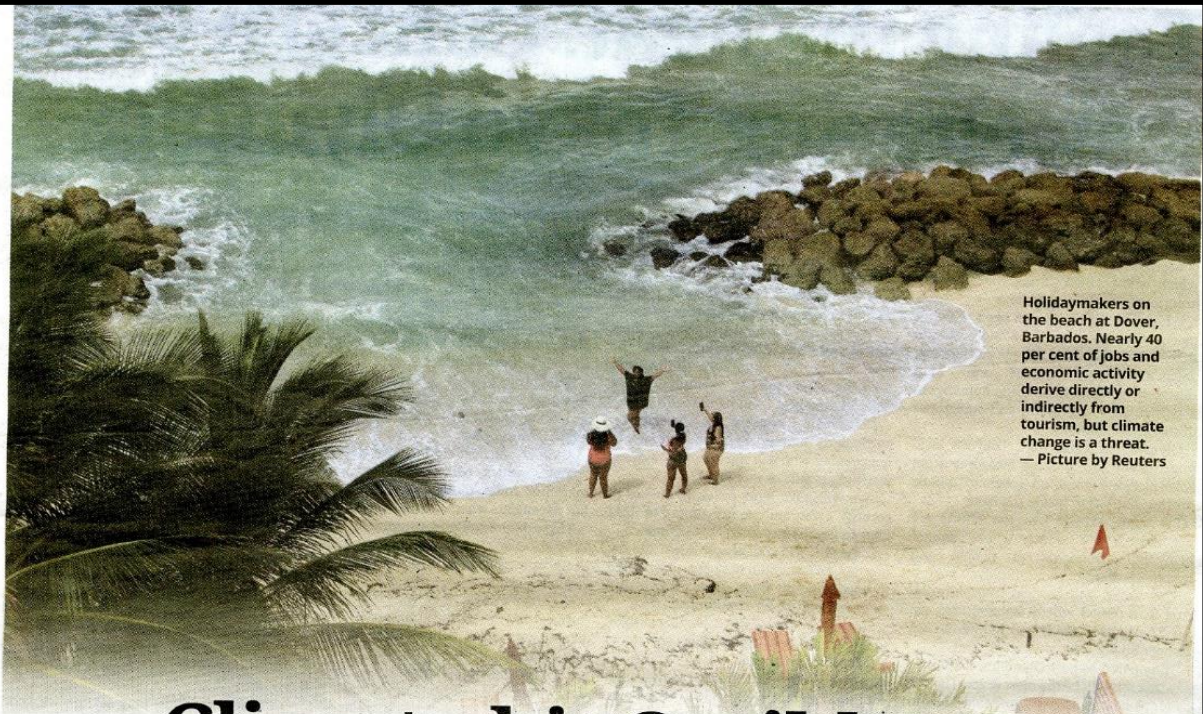
Meanwhile, in the open category, Theatre Club Nanyang from Singapore won first place. Team Science Fillet from Brunei took second place and The Warriors from Maktab Rendah Sains MARA (MRSM) Tun Abdul Razak came in third.

Tadmax, Worldwide ink power plant deal

KUALA LUMPUR: Tadmax Resources Bhd has signed a memorandum of understanding with Selangor state-linked company Worldwide Holdings Bhd for the development of a 1,000-1,200 megawatt combined cycle gas turbine power plant in Pulau Indah. Tadmax, in a filing with Bursa Malaysia yesterday, said subject to the Energy Commission's approval, Worldwide intended to secure a 30 per cent equity interest in the project company, Tadmax Indah Power Sdn Bhd.

Genetec scraps India ammonia project

KUALA LUMPUR: Genetec Technology Bhd will not proceed with a collaboration to develop an ammonia and urea manufacturing plant in Andhra Pradesh, India, as it was unable to ascertain the technical feasibility and economic viability of the proposed project. In a filing with Bursa Malaysia, the company said it decided not to go ahead with a memorandum understanding on the plant development signed with the Malay Chamber of Commerce Malaysia, China Rainbow International Investment Co Ltd and VBC Fertilisers and Chemicals Ltd. **Agencies**



Holidaymakers on the beach at Dover, Barbados. Nearly 40 per cent of jobs and economic activity derive directly or indirectly from tourism, but climate change is a threat.
— Picture by Reuters

Climate-hit Caribbean touts new tourism

PROMOTER Ryan Kruger scouted five potential locations for his Vujaday techno festival before opting to hold the five-day event in Barbados, flying in DJs to play to around 1,500 party-goers at a string of dramatic locations around the island in April.

Now planning to return next year, Vujaday — alongside jazz and gospel festivals, fertility holidays, sports camps, genealogy and marijuana vacations — is one of a patchwork of tourism niches boosting revenues for Caribbean islands.

"We had this concept of creating a destination event outside of North America where North Americans and Western Europeans mostly could go when it was cold," said Toronto-based Kruger, whose RKET Group had some government support for the event.

"Our people and our operations put about 4.3 million Barbados dollars (RM8.7 million) into the local economy."

For the world's most tourism-dependent region, finding fresh markets could become increasingly important as the impacts of climate change — from rising sea levels to reef degradation and more powerful storms — take their toll.

Swiped last year by hurricanes Irma and Maria, the low-lying Turks and Caicos Islands are analysing the risks global warming poses to the tourism industry after the ferocious storms cost US\$500 million (RM2 billion) and damaged the popular Grace Bay beach.

"At the end of the day, (if) we lose our beaches, we have economic challenges," Premier Sharlene Cartwright-Robinson said.

The British overseas territory is also selling itself as a location for eco-tourism, weddings and conferences — and is even reaching out to star basketball players seeking somewhere warm to run training camps off-season.

According to the Caribbean Tourism Organisation (CTO), about 30 million people flocked to the region last year, bringing much-needed foreign exchange, and supporting businesses and jobs on many islands struggling with high levels of public debt.

In Barbados, the World Travel & Tourism Council estimates nearly 40 per cent of jobs and economic activity derive directly or indirectly from tourism — but climate change is a threat.

"The whole business of climate change has been part of the sustainable development discussion for a long time in the Caribbean," said CTO head Hugh Riley. "We understand the reality of girding our loins for the future."

Trinidad and Tobago's exuberant carnival and Barbados' Crop Over Festival have long pulled in tens of thousands each year.

But now cuisine, motorsports, horse-racing, rum-plantation and wellness stays are among the tourism draws growing in popularity, he added.

"More and more travellers, vacation planners and their clients are becoming aware of the fact the Caribbean is a region of tremendous diversity," he said.

The unique history of the region is a pull, with Havana, Bridgetown and Santo Domingo on Unesco's World Heritage list. Curacao's synagogue, the oldest in continuous use in the Americas, attracts people investigating Jewish history, he said.

As some islands look at legalising marijuana, holidays for both medical and recreational users could also appeal down the track, said Riley.

For debt-burdened islands in the region, balancing the cost of protecting the natural assets that lure tourists, such as coral reefs and beaches, against the lucrative returns from development remains a tricky act, said one academic.

"Conservation is not free — it's costly," said Peter Schuhmann, a University of North Carolina economics professor.

Education for overseas students has long been a source of income, with countries like Grenada enrolling them in its university and medical school.

But a number of countries are now considering medical tourism, which aside from the Cayman Islands, has been slow to expand in the region despite easy access for US patients.

For Jessica Wilson, the decision to take an "IVF holiday" to Barbados with her husband was simple, with the offer of a personalised service in a holiday destination at considerably lower cost than in her home city of Atlanta, Georgia.

"It's a very stressful process — until you're over there, you don't realise how much you can't beat this vacation-type atmosphere," said the academic adviser.

Juliet Skinner, whose Barbados Fertility Centre promotes "treatment in paradise with less stress", performs around 450 fresh IVF cycles a year in the internationally accredited clinic, and says Americans are becoming her biggest client base.

The knock-on benefits feed through to the

local economy, as patients usually spend two weeks in Barbados for treatment at a basic rate of around US\$6,000 (RM24,390) compared to US\$12,000-US\$15,000 (RM48,780-RM60,975) in the United States, said the doctor.

"They're high-net worth (individuals) — they're going to eat in your restaurants, they're going to use your attractions, they're going to use your taxis, and support your tourism economy," said Skinner in her office with sea views.

Medical care remains a very small part of the Barbados tourism market but "can only be a bonus", she added.

Looking for new ways to tap into its vast diaspora in the United States, Britain and Panama, Barbados' tourism board is keen to attract those trying to track down their heritage.

Stored in a former leprosy hospital on the edge of the capital Bridgetown, some records date back to the 1600s for the island that was once a trans-shipment point for Africans brought to work as slaves in the Caribbean.

"We're trying to pull it together as a market niche, and it's coming together pretty good," said Madge Dalrymple of the Barbados Tourism Product Authority.

While turquoise seas, coral sand beaches and a balmy climate will likely remain the primary draw for the vast majority of tourists to the Caribbean, some say diversification could open new markets and bring a competitive edge.

"There's great potential for all kinds of niche tourism markets outside of sun, sea and sand," said professor Schuhmann.

— Reuters

LAMPIRAN 10
THE STAR (ECOWATCH): MUKA SURAT 1
TARIKH: 31 JULAI 2018 (SELASA)



To the ends of the Earth

Polar explorer Robert Swan, the first man in history to walk to both poles, is on a 50-year mission to preserve Antarctica. >2

LAMPIRAN 10 (SAMBUNGAN)
THE STAR (ECOWATCH): MUKA SURAT 2
TARIKH: 31 JULAI 2018 (SELASA)



Since 2003, Swan and his team have been making annual expeditions to the Antarctic, taking along students, youth leaders and people who want to make a difference to witness the effects of climate change in the southernmost continent. — Photos: 2041 Foundation

Man with a mission

Polar explorer Robert Swan has dedicated his whole life to one goal – to preserve the Antarctic.

Stories by **WONG LI ZA**
star2@thestar.com.my

WHEN you stare into Robert Swan's face, you will see one that has really weathered the storms, so to speak.

Besides lines and wrinkles, the 62-year-old's eyes are now a pale blue, courtesy of being directly exposed to ultraviolet rays in Antarctica as he walked to the South Pole back in the 1980s.

In fact, Swan has been labelled "mad" for doing that expedition – and another to the North Pole later – but he would sooner deal with that than do nothing after witnessing the destruction of nature due to climate change.

"I am the first person, stupid enough, to walk to both poles," said Swan in his keynote address at the recent KWAP Inspire: Environmental Conference 2018 held in Kuala Lumpur, as the audience broke out in laughter.

"After that, you are sure of four things – first, I am done with walking. Second, at minus 77° Celsius, your sweat turns to ice inside your clothing and let me tell you that I don't enjoy ice in my underpants!" continued Swan.

No insurance company would give him life cover for his expedition either.

"You also realise that our world is dominated by a lot of negative news. Why? Because it's very easy to be negative," he said. "But you can't achieve anything by being negative."

Swan's interest in polar exploration first began when he was 11. He was inspired by the story of the "Heroic Age of Antarctic Exploration" (1895-1917) and the race to the South Pole between Robert Falcon Scott, Ernest

Shackleton and Roald Amundsen.

At age of 20, he decided to pursue his dream but needed to raise US\$5mil (RM20mil) for his mission, a feat he finally achieved after seven long years.

His 1,450km (900miles) journey to the South Pole was named "In the Footsteps of Scott", after Robert Scott's Terra Nova Expedition in the early 20th century.

The expedition, which Swan did together with Roger Mear and Gareth Wood, stands as the longest unassisted walk ever made in history.

"We walked for 70 days, nine hours a day, carrying 180kg each. There was no radio communications with the outside world and you are navigating only using the sun, sextant and a watch," recalled Swan, who has served as a UN Goodwill Ambassador for Youth and Special Envoy to the Director General of Unesco.

During the expedition, Swan lost 33kg and the colour of his eyes changed from dark blue to a pale blue, due to prolonged exposure to ultraviolet rays coming through the hole in the ozone layer, which they were directly beneath. The skin on his face also blistered off.

On Jan 11, 1986, they finally stood at the South geographical pole, only to find out that their 42m ship, Southern Quest, had sunk five minutes before they arrived. They eventually returned a year later to clean up the wreckage.

Then, in 1989, Swan and his team decided to walk to the North Pole. They got there on May 14 after 60 days, but not before a team member lost the heel of his foot to frostbite and the group faced near disaster due to the premature melting of Arctic ice.

"To walk across a melting ocean

of ice, a thousand kilometres away from the safety of land is without doubt, the most frightening thing that has ever happened to me. The ice was melting and crashing down. Back then we had to march, or die," said Swan, to a rapt audience.

At the age of 33, Swan created history by becoming the world's first person to walk to both the North and South Poles.

French ocean explorer Jacques Cousteau and Sir Peter Scott, founder of the World Wildlife Fund, were Swan's patrons for the polar walks.

After his return, they gave Swan one challenge – to use his story to preserve Antarctica.

Having experienced first-hand the effects of climate change, he willingly took up a 50-year mission to preserve earth's southernmost continent by promoting recycling, renewable energy and sustainability.

"Antarctica is the last great wilderness, twice the size of Australia. It constitutes 4,500m of solid ice, holds 90% of the world's ice and 70% of the world's freshwater. If we continue to melt that, we swim," warned Swan.

Swan then founded the organisation called 2041 to achieve his goal.

The year 2041 is when the Protocol on Environmental Protection to the Antarctic Treaty, which prohibits any drilling and mining in the continent, could potentially be changed.

"People want to go there for fossil fuel and we want to make it not worth going there financially by promoting renewable energy use," he emphasised.

Since 2003, Swan and his team have been making annual expeditions to the Antarctic, taking along



Swan and a team of people spent eight years removing and fully recycling 1,500 tonnes of steel waste left over after years of scientific research in the Antarctic.

students, youth leaders and people who want to make a difference to witness the effects of climate change.

In line with his dedication to recycling and to keeping Antarctica pristine, Swan and a team of people also spent eight years raising funds and executing a special mission – to remove and fully recycle 1,500 tonnes of steel waste left over after years of scientific research.

When the waste was finally cleared at the Russian base of Bellingshausen, King George Island, penguins walked onto the beach, reclaiming it for the first time in 47 years.

"If we can spend eight years cleaning up 1,500 tonnes of steel, I think you can lift up your arm, pick up that aluminium can, and put it in the recycling bin," said Swan at a TEDGlobal 2014 Talk.

On Jan 15 this year, Swan and his son Barney completed the first-ever expedition to the South Pole powered solely by clean energy technologies known as the South Pole Energy Challenge, or SPEC.

Right after that, they launched the Climate Force Challenge, which has a seven-year goal to clean up 326 million tonnes of CO2 before 2025 to meet the goals of the 2016

United Nation's Paris Agreement to hold global temperatures below two degrees above pre-industrial levels.

"Our effort is to really say that everybody can make a difference, and we want everyday people to be a part of something that (truly) makes a difference."

"We are not interested in offsetting but more interested in cleaning up. For (my son) Barney and I, that's our mission for the next seven years," he said.

"I am not a true explorer, a scientist nor an environmentalist. In fact, I hate that word! I am a survivor, who acts to stay alive and do the right thing because if not, somebody else pays the price. We are all on a journey and that journey is about the survival of our species on good of planet Earth," he stressed.

Swan believes that more effort needs to be put into environmental protection.

"We need to do more than what we are doing, because people will look back on us and say we knew, we had all the information but we didn't do enough."

"And I would not like to feel that I hadn't tried hard enough, and I know my son feels the same about that."

LAMPIRAN 10 (SAMBUNGAN)
THE STAR (ECOWATCH): MUKA SURAT 3
TARIKH: 31 JULAI 2018 (SELASA)

Notching new milestones

HERE is a quick look at what Robert Swan and his organisation 2041 have achieved since he first walked to the South Pole.

- In March 2003, Robert Swan and his team led the first corporate expedition to Antarctica and since then, they have taken over 3,500 people from all over the world on 22 polar expeditions to experience the beauty of the continent and find out about how to protect it.

- In March 2008, Swan created history again by living solely on renewable energy at the E-Base – the world's first Antarctic renewable energy education station – for

over two weeks. His message: "If this is possible in the harsh Antarctic climate, surely it is possible in the real world."

- In 2015, Swan returned to the South Pole, this time with his son Barney, who was 21 then, starting his journey at the South Pole and walking to the coast.

- On Jan 15, 2018, Swan and his son Barney completed the first-ever expedition to the South Pole powered solely by clean energy technologies known as the South Pole Energy Challenge (SPEC):

- On the same day, the Climate Force Challenge –

which has a seven-year goal to clean up 326 million tonnes of CO2 before 2025 to meet the goals of the 2016 United Nation's Paris Agreement to hold global temperatures below two degrees above pre-industrial levels – was launched.

- In June 2019, Swan will return to the Arctic (ClimateForce: Arctic 2019 expedition) with Barney and lead a group of over 80 explorers from across the planet to observe the changes that are happening so that they ensure that these extreme environmental conditions never happen in Antarctica. – Wong Li Za



Swan and his son Barney at the beginning of their walk in the world's first expedition to the South Pole (SPEC) using only renewable energy in January this year. — Photos: 2041 Foundation and Shell Global



Swan says: 'I am not a true explorer, a scientist nor an environmentalist. In fact, I hate that word! I am a survivor, who acts to stay alive and do the right thing.'



Swan (right) and Barney, before embarking on the SPEC expedition.

HIKERS GET OFF VOLCANO

Copters scour volcano's slopes to drop food supplies for those stranded

MATARAM

GROUPS of hikers began to pick their way down the slopes of a Lombok volcano yesterday after a deadly earthquake triggered landslides that trapped more than 500 tourists and guides on the mountain.

Tonnes of rock and mud were dislodged on Mount Rinjani in the 6.4-magnitude quake, which struck early on Sunday and was followed by scores of aftershocks, blocking the hiking routes that crisscross the mountain.

About 560 people were estimated to be trapped on Rinjani overnight, including citizens from the United States, France, the Netherlands, Thailand and Germany, as well as many other countries, search-and-rescue officials said.

Officials said tourists had now started to descend the active volcano, but were unlikely to arrive at its base before nightfall.

"At the moment, both domestic and international tourists are on their way down," I Gusti Lanang Wiswananda, a spokesman for West Nusa Tenggara search and rescue, said.

Hikers started descending the mountain after guides discovered an alternate route that was unaffected by the landslides, Wiswananda said, adding that the evacuation would most likely stretch to today.

Hundreds of other hikers managed to get off the mountain on Sunday, according to officials.

At least 16 people were killed in the earthquake across affected



Indonesian and foreign climbers resting after walking down from Mount Rinjani at Sembalun village in Lombok Timur, Indonesia, on Sunday. REUTERS PIC

areas of Lombok, while hundreds of buildings were destroyed, including a health clinic.

The quake created panic on the holiday island and sent locals and tourists running outside their homes and hotels.

Helicopters and search teams were deployed to scour the volcano's slopes and drop food supplies for those stranded on the mountain.

The search will be halted at sunset, search-and-rescue officials said.

"For supplies, they can still survive for another one to two days," Agus Hendra Sanjaya, spokesman for Mataram's search-and-rescue agency, said.

Rising some 3,726m above sea level, Rinjani is the second-tallest volcano in Indonesia and a favourite among sightseers keen to take in its expansive views.

Hiking trails on the mountain

were closed following the quake due to fear of further landslides.

Thailand's embassy in Jakarta said 239 of its citizens were stuck in the area surrounding the mountain.

Thai national Thanapon Worawutchainan, who was at the summit when the earthquake occurred, posted a video on Facebook showing people stumbling down the slopes in the aftermath.

He said the ground shook violently and people lay down until the tremors stopped.

"It looked like the mountain in front of me was going to collapse," another stranded Thai, Funknathee Prapasawat, said on Facebook.

"Some people were injured by rocks falling off the mountain."

The epicentre of the earthquake was 50km northeast of Lombok's main city here, the

United States Geological Survey said, far from the main tourist spots on the south and west of the island.

The initial tremor was followed by two strong secondary quakes and more than 100 aftershocks.

The jolt was felt some 100km away on the bustling resort island of Bali, although there were no reports of damage there.

In the hard hit village of Medas, north of here, the majority of houses were destroyed and the area was deserted yesterday, save for a few people searching for possessions in the rubble.

Some 160 people were injured in Lombok as a result of the quake, said Mohammad Rum, head of West Nusa Tenggara disaster agency.

A Malaysian was among the dead, with another six citizens injured, the Foreign Affairs Ministry in Kuala Lumpur said. **AFP**

Fish-filled water floods hospital in northeast India

NEW DELHI: Dirty water with fish squirming around flooded a hospital in northeast India after monsoon rain and at least 80 people died within days in one state in weather-related accidents, officials said.

Patients sat gingerly with their feet up at the Nalanda Medical College hospital in Bihar state when water gushed into the intensive care unit, highlighting the annual havoc the monsoon wreaks on the country's creaking infrastructure.

"A portion of the ground floor was flooded yesterday (Sunday) after a pipe choked amid heavy rains, causing waterlogging," Sitaram Prasad, principal of the col-

lege-cum-hospital, said.

Tens of thousands of buildings and homes across India regularly flood during the monsoon months of June to September, which bring death and destruction.

Some 545 people have died across the country since May due to the rains, with over a million people affected in some way.

Sanjay Kumar, the head of disaster management in Uttar Pradesh state west of Bihar, said 80 people have been killed by collapsing homes or walls since Thursday after heavy rain pounded much of the region.

Neighbouring states are also on alert, with authorities evacuating

3,000 residents from areas near the River Yamuna, which is flowing above the danger level in the capital New Delhi.

A 150-year-old iron bridge was closed as water levels rose to touch its base. Authorities in Haryana state said many rivers were brimming close to the danger mark.

Gujarat in the west and the northeastern state of Assam have also been affected. More than 200,000 people are living in relief camps in Assam.

Mumbai, the capital of the western state of Maharashtra, was pounded by days of torrential rain which disrupted transport and caused severe flooding. — AFP



Unwanted visitor: A boy catching a fish inside a waterlogged room at Nalanda Medical College hospital in Patna. — AFP

25 reported missing in Greek wildfire, death toll increases

MATI (Greece): Fire officials in Greece raised the death toll from a wildfire that raged through a coastal area east of Athens to 91 and reported that 25 people were missing, six days after Europe's deadliest forest fire in more than a century.

Before the national fire service updated the official number of fatalities, it stood at 86 as hundreds of mourners attended a Sunday morning memorial service for the victims in the seaside village hardest-hit by the blaze.

The fire sped flames through the village of Mati, a popular resort spot, without warning on July 23.

A database maintained by the Centre for the Research on the Epidemiology of Disasters in Brussels shows it as the deadliest wildfire in Europe since 1900.

The vast majority of victims died in the fire itself, though a number drowned in the sea while fleeing the flames.

Until Sunday night, Greek officials had not provided a tally of the people reported missing.

Hellenic Fire Service spokesman Stavroula Malliri provided a breakdown that illustrated why the death toll continued to expand and the list of people thought to be missing was

difficult to draw up with precision.

Malliri said that as of Sunday evening, 59 victims had been identified from bodies or remains and another four people injured in the fire had died in area hospitals. But identities have not yet been linked to another 28 sets of remains, she said.

Relatives or friends reported 25 people who were considered officially missing, Malliri said.

A fire service official said some or all of the 25 missing people could be among the yet-unidentified remains of the dead. The official requested anonymity because the fire still is

under investigation.

At the morning memorial service in Mati, the senior local Greek Orthodox Church official, Bishop Kyrillos, said the community was grieving the simultaneous loss of family, neighbours and friends.

"There's fewer of us now than usually," the bishop said.

"It is the victims of the recent fire that are missing – friends, relatives and acquaintances, next-door people that we saw every day in town and on the beach."

Local resident Angeliki Galiatsatou said she narrowly managed to escape the fire that killed others

in their cars and homes.

"I came to pray for the people who were lost and I pray that God blesses us all," she said.

Dozens of volunteer divers, some of them retired Navy SEALs, ventured into the sea again on Sunday to look for the bodies of more possible victims. The search was abandoned, without result, because of a sudden storm.

Greek authorities have said they have reason to believe the fire resulted from arson and turned so deadly because winds of up to 100kph buffeted the pine-forested seaside resorts at the time. — AP

LAMPIRAN 14
UTUSAN MALAYSIA (LUAR NEGARA): MUKA SURAT 14
TARIKH: 31 JULAI 2018 (SELASA)

Penyelidik hasilkan kaedah untuk kegunaan barangan elektrik

Sisa serbuk kopi sumber tenaga

■ JAKARTA 30 JULAI

BERJUTA-JUTA penduduk dunia meminum kopi atas alasan untuk menghilangkan rasa mengantuk atau memberikan tenaga.

Namun sekumpulan penyelidik di Taiwan memaklumkan sisa serbuk kopi kini mampu dijadikan sumber untuk membekalkan tenaga kepada bateri

termasuk telefon pintar, komputer riba dan barangan elektrik lain.

Jakarta Post melaporkan, untuk itu mereka sedang membangunkan kaedah 'menukarkan' sisa serbuk kopi dan dijadikan karbon yang digunakan dalam bateri ion lithium.

Penyelidik dari Jabatan Kejuruteraan Kimia, Universiti Chungyuan, Prof. Madya Liu

Wei-jen berkata, kos bagi karbon asli serta buatan adalah tinggi dan pihaknya berharap dapat mencari bahan gantian lain.

Menurutnya, penduduk Taiwan gemar meminum kopi dengan pembuangan sisa serbuk kopi yang cukup banyak.

"Kami telah memikirkan jika terdapat kemungkinan menukarkan sisa serbuk kopi boleh menjadi sumber bagi bateri.

"Hal demikian kerana sisa serbuk kopi adalah karbon. Ini membolehkan kemungkinan untuk menjadikan sisa serbuk kopi kepada sumber bateri melalui proses pengubahsuaian karbon," katanya.

Jelasnya, perkara itu dapat melindungi alam sekitar dengan memproses sisa serbuk kopi kepada penghasilan bahan tenaga.



SISA serbuk kopi kini boleh dijadikan sumber gantian bagi menghasilkan tenaga untuk barangan elektrik. - AGENSI