

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

Bil	Berita	Media	Capaian Berita Penuh
1.	Malaysia says 'no more non-recyclable waste' – will the world take note?	Asean Today	Klik pada tajuk berita
2.	Experts: Current heat wave due to Pabuk	The Star	Klik pada tajuk berita dan rujuk lampiran 1
3.	Dialogue on Lynas' radioactivity needed to allay fears	The Star	Klik pada tajuk berita dan rujuk lampiran 2
4.	Dana RM20 juta diperuntuk	Harian Metro	Rujuk lampiran 3

### **TEMPATAN**

Bil	Berita	Media	Capaian Berita Penuh
5.	Rangka kerja kecerdasan buatan kebangsaan teroka sumber kekayaan baru	Astro Awani	Klik pada tajuk berita
6.	Transformasi sampah sebagai sumber kekayaan baharu	Astro Awani	Klik pada tajuk berita
7.	Johor to severely punish sand-mining operators for pollution	Malay Mail	Klik pada tajuk berita
8.	Let's Talk: The Air That We Breath - Smokers vs Industrial Pollution	Astro Awani	Klik pada tajuk berita
9.	Projek rintis jalur lebar TNB berjalan lancar	Berita Harian	Klik pada tajuk berita dan rujuk lampiran 4

10.	MCMC optimistic about HSBB system using TNB's fibre optic infrastructure	The Edge Markets	Klik pada tajuk berita
11.	We need to prepare youth for the fourth revolution	New Straits Times	Klik pada tajuk berita dan rujuk lampiran 5
12.	30 mangsa banjir di Bau dipindah	Kosmo	Klik pada tajuk berita
13.	Projek rintis TNB di Melaka perluas rangkaian jalur lebar	Kosmo	Rujuk lampiran 6
14.	Plastic problems	The Star	Rujuk lampiran 7
15.	Six inches of trash	The Star	Rujuk lampiran 8

#### **ANTARABANGSA**

Bil	Berita	Media	Capaian Berita Penuh
16.	Ribut pasir merah kelihatan seperti Ayers Rock	Kosmo	Klik pada tajuk berita dan rujuk lampiran 9
17.	California Storm Brings Power Outages, Shuts Down Highway	US News	Klik pada tajuk berita
18.	Blockchain For Social Impact? Be Careful What You Wish For	Forbes	Klik pada tajuk berita
19.	The Social Sector Is Embracing Blockchain. Should It?	Forbes	Klik pada tajuk berita
20.	Global warming of oceans equivalent to an atomic bomb per second	The Guardian	Klik pada tajuk berita
21.	Gempa 5.4 skala Richter landa Filipina	Utusan Malaysia	Klik pada tajuk berita

22.	5.4 magnitude quake rattles southern Philippines	New Straits Times	Klik pada tajuk berita
23.	Breadmaking robot startup eyes new markets	The Star	Rujuk lampiran 10
24.	California storm causes power outages	The Star	Rujuk lampiran 11

### LAMPIRAN 1 THE STAR (NATION): MUKA SURAT 10 TARIKH: 8 JANUARI 2019 (SELASA)

## **Experts: Current heat wave due to Pabuk**

By CLARISSA CHUNG clarissachung@thestar.com.my

PETALING JAYA: A heat wave is currently PETALING JAXA. A near wave label hitting Malaysia, with weather experts saying that it could have been brought on by tropical storm Pabuk.

Malaysian Meteorological Department (MetMalaysia) director-general Alui Bahari said the hot spell over the past week was due to the changes in wind directions in the

region.
"The wind direction changes were influenced by the tropical storm, which had moved from the South China Sea since Jan 1 to the

"The wind heading towards the storm caused a reduction in moisture and rain cloud formation in the interior and west of Peninsular Malaysia during that time," he

Alui said he expected the hot spell to be temporary and that the weather would gradually go back to normal.

A check on the MetMalaysia website

showed several parts in the country could be hit by blazing hot weather this week.

Temperatures in Kuala Lumpur, Alor Setar, Melaka, Batu Pahat, Kota Kinabalu and



Beating the heat: Tourists cooling down with coconut water after visiting Batu Caves Temple in Selayang.

Bintulu could hit between 32°C and 34°C.

However, most of these locations are expected to experience lightning storms and rain in the evening.

Universiti Kebangsaan Malaysia's professor of Climatology and Oceanography Prof Dr Fredolin Tangang agreed that Pabuk might

have contributed slightly to the hot spell.
"Pabuk may have a little effect on the current weather as much of the moisture was transported away.

"But the hot weather is mostly caused by changes in the atmospheric circulation over Peninsular Malaysia and the west Indian Ocean due to the Madden-Julian Oscillation (MJO)," he said.

The MJO is a phenomenon in which a low pressure system crosses eastward from the Indian Ocean to the Pacific Ocean.

Indian Ocean to the Pacific Ocean.
"Without evaporative cooling, surface air temperature increases and this is what we're currently experiencing.
"Currently, the MJO is in its seventh or eighth phase, resulting in dry and hot weather conditions," he said, adding that such weather was "less typical" during this season.

Universiti Malaya's Institute of Ocean and Earth Sciences senior research fellow Prof Datuk Dr Azizan Abu Samah said the hot and dry season usually begins in February. "Northern states such as Kelantan and Penang may be experiencing winds from

Siberia

"But the current heat wave is also due to the clearer skies across the country," he said.

### **LAMPIRAN 2** THE STAR (NATION): MUKA SURAT 14 TARIKH: 8 JANUARI 2019 (SELASA)

## Dialogue on Lynas' radioactivity needed to allay fears

By CLARISSA CHUNG clarissachung@thestar.com.my

PETALING JAYA: A public forum on the radioactivity of residue pro-duced by the Lynas plant is needed as the issue had been sensational-ised, says Universiti Malaya Professor of Medical Physics Prof Dr

Ng Kwan Hoong.

He said more should be done to He said more should be done to improve the public's scientific knowledge of the radioactivity of the residue from the Lynas Advanced Materials Plant (LAMP) in Gebeng, Kuantan.

There has been a lack of public engagement on the matter which has exalted in tea much prisudes.

has resulted in too much misunderstanding, he said.

Engagement sessions must be

The coffee we drink has some amount of radioactivity. Radiation is not something to be feared.

Prof Dr Ng Kwan Hoong



organised to allow the government, Lynas Corporation, scientists and members of the public to dialogue, he added.

Residents want a chance to voice their concerns and to have their fear and anxiety put to rest.

There has been a trust deficit which takes many years to rebuild," he said.

Radiation is seen as negative by the public, he added, although radioactivity has been in existence since the earth was formed.

"There has been primordial radionuclide (atoms with excessive energy) in existence for aeons," he said, adding that this includes thorium, uranium, actinium and potassium.

"Even the coffee we drink has some amount of radioactivity. Radiation is not something to be

feared," he said.

He added that the controversial water leach purification (WLP) residue from LAMP is about 6-7 Bq (Becquerel = unit of radioactivity) per gramme.

Although the level requires the residue needs to be regulated by the Atomic Energy Licensing Board (AELB), he said, the radioactivity was low compared to waste pro-duced by nuclear power plants. The Energy, Science, Technology,

Environment and Climate Change
Ministry (Mestecc), had recently
instructed Lynas to export the WLP
residue out of Malaysia.

Prof Ng said other types of residue produced by LAMP, which are
the neutralisation underflow residue (NIET) and the flue gas suitable.

due (NUF) and the flue gas sulphurisation residue (FGD), measure to

less than 1 Bq/g.

He added however that Lynas
Corp should provide real time information on the background radiation at the plant site and its vicinity.

The International Atomic Energy Agency (IAEA), a global organisa-tion promoting the safe use of nuclear energy, had reported in 2014 that the radiological risks associated with LAMP operations were "intrinsically low".

Prof Ng said it would not be possible to guarantee that there are no risks, but these must be weighed against the potential benefits. "There is no such thing as zero harm in this world, but what we

harm in this world, but what we must do is ensure that the level of risk must be as low as reasonably-achieavable," he said.

Prof Ng has over 25 years of experience consulting for the IAEA and is serving as its consultant in the Fukushima recovery programme.

### LAMPIRAN 3 BERITA HARIAN (BISNES): MUKA SURAT 19 TARIKH: 8 JANUARI 2019 (SELASA)



# LAMPIRAN 4 BERITA HARIAN (BISNES): MUKA SURAT 20 TARIKH: 8 JANUARI 2019 (SELASA)

# Projek rintis jalur lebar TNB lancar

Suruhanjaya Komunikasi dan Multimedia Malaysia (SKMM) optimis projek rintis sistem rangkaian jalur lebar berkelajuan tinggi dengan kemudahan teknologi gentian optik Tenaga Nasional Bhd (TNB) di Jasin, Melaka mampu memenuhi hasrat kerajaan mengembangkan infrastruktur jalur lebar negara.

Pengerusinya, Al-Ishsal Ishak berkata badan itu dan Kementerian Komunikasi dan Multimedia berpuas hati dengan perkembangan fasa pertama projek rintis itu bagi tempoh Oktober hingga Disember lalu yang membabitkan aspek kesalinghubungan dan teknikal.

"Dalam tempoh itu, TNB dan beberapa pembekal perkhidmatan internet (ISP) berjaya melancarkan rangkaian itu tepat pada masa selain mencapai aspek susunan perdagangan yang boleh ditawarkan," katanya dalam temu bual dengan organisasi media menjelang lawatan tapak SKMM ke Jasin hari ini.

Projek rintis itu dilaksana menerusi inisiatif Pelan Gentian Optik dan Kesalinghubungan Negara (NFCP) yang diumumkan dalam Belanjawan 2019. Kerajaan menyediakan peruntukan RM1 bilion bagi pelaksanaan NFCP.

Menurut laporan sebelum ini, projek rintis itu melibatkan 1,100 kediaman di tiga kawasan di Jasin iaitu Taman Merbau, Taman Maju dan Felda Kemendor.

Sebaik fasa kedua projek rintis itu selesai mengikut jangkaan pada Mac ini, hasilnya akan diteliti dan satu pelan akan diketengahkan untuk direplikasi di lokasi lain di seluruh negara.

#### Sokong ekonomi digital, Revolusi Industri 4.0

Melalui NFCP, kerajaan antara lain berhasrat memastikan rakyat berpeluang menikmati pelbagai perkhidmatan melalui capaian infrastruktur jalur lebar berkualiti tinggi pada harga berpatutan selain menyokong perkembangan ekonomi digital dan Revolusi Industri 4.0.

Menurut Al-Ishsal, Jasin dianggap sesuai untuk mensimulasikan rangkaian fiber ke kawasan-kawasan yang berbeza dari segi demografi



Jasin adalah kawasan projek perintis sedia ada untuk projek pemeteran pintar TNB"

Al-Ishsal Ishak, Pengerusi SKMM

dan jenis premis termasuk rumah, rumah teres dan penempatan Felda.

Selain itu, terdapat kawasan komersial dan perindustrian di Jasin di mana ada permintaan untuk perkhidmatan jalur lebar berkelajuan tinggi.

"Faktor lain yang dipertimbangkan ialah tentang hakikat bahawa perkhidmatan jalur lebar tetap yang sedia ada di Jasin adalah menerusi rangkaian tembaga," kata Al-Ishsal sambil menyatakan bahawa Jasin adalah kawasan projek perintis sedia ada untuk projek pemeteran pintar TNB.

**BERNAMA** 

### LAMPIRAN 5 NEW STRAITS TIMES (LETTERS): MUKA SURAT 16 TARIKH: 8 JANUARI 2019 (SELASA)

#### **FUTURE GENERATION**

### We need to prepare youth for the fourth revolution

**THE** Transformers and Terminator film franchises have brought us to the realm of the impossible, where robots are like human beings — they can walk, talk and behave like one. But in this century everything is possible.

The creation of the robot "Sophia" in 2016, for instance, has proven that everything is possible in this modern era. In the film *The 6th Day* by Roger Spottiswoode, the theory of human cloning seems far-fetched until the achievement by Dr lan Wilmut from Scotland in 1997.

He produced Dolly, the first cloned sheep that made headlines all over the world

lines all over the world.

Thus, the Industrial Revolution
4.0, or 4IR, will produce vast
changes in various sectors.

Education, business, transfer of technology and the profes-

sional sectors could be affected by 4IR. The first industrial revolution began in 1760 when handproduction machines were replaced by machines and factory tools that used steam and water power.

The second revolution saw mass production involving the use of electricity. Electronics, information and technology systems and robotics started in the third revolution, and 4IR is the use of electronic systems.

use of cloud technology.

The sector that will benefit most from 4IR is the construction industry. In Malaysia, an example of this is the Building Information Modelling. This inteligent 3D model-based process gives architecture, engineering, and construction professionals the insight and tools to plan, design, construct, and manage

buildings and infrastructure more efficiently.

Another approach is the Highway Information Modelling (HIM). HIM is used as a specialist project monitoring tool to visualise, control and track the contractor's progress to make sure that he complies with the design requirement. This helps construction players minimise errors during the construction stage and helps reduce cost.

The 3D printing system used by architects to produce a small-scale prototype has been transformed to be used in mass construction projects. In China, 3D printing is used to build a house

In addition, the use of Industrialised Building System can minimise the cost of labour and speed up the project completion

4IR can bring advantages to certain areas. It is expected to make changes to people's lives, work and communication. But it will be a worrying time for the incoming generation because many of the jobs will become obsolete. The X and Y generations may survive the revolution, but generation Z and the following generations will face challenging times.

According to the World Economic Forum, 65 per cent of children in primary education will end up working in jobs that haven't been created.

A 2013 research by Oxford University showed that obsolete jobs included data entry, library technicians, accounts clerks, photographic process workers, processing machine operator, tax

preparer, cargo and freight agents, horologists, insurance underwriters, mathematical technicians, title examiners, abstractors, searchers and telemarketers. It is expected that 46.4 per cent of jobs in manufacturing, 32.3 per cent in finance and 44 per cent in wholesale and retail will be gone by 2020.

retail will be gone by 2030.

The most challenging will be in the education sector. This sector must revise needs and demands, and make changes to the education system to cater to the future. Future generations need to be prepared to adapt to the changes brought by 4IR.

#### ADRINA ROSSEIRA ABU TALIP

Lecturer, Faculty of Civil Engineering, Department of Construction Engineering and Project Management, UiTM Pasir Gudang, Johor

#### **LAMPIRAN 6 KOSMO (NIAGA): MUKA SURAT 46 TARIKH: 8 JANUARI 2019 (SELASA)**

## Projek rintis TNB di Melaka perluas rangkaian jalur lebar

CYBERJAYA - Suruhanjaya Komunikasi dan Multimedia Malaysia (MCMC) optimis terhadap projek rintis sistem rangkaian jalur lebar berkela-juan tinggi dengan kemudahan teknologi gentian optik Tenaga Nasional Berhad (TNB) di Jasin, Melaka mampu memenuhi has-

rat kerajaan mengembangkan infrastruktur jalur lebar negara. Pengerusi MCMC, Al-Ishsal Ishak (gambar) berkata, badan itu dan Kementerian Komuni-kasi dan Multimedia berpuas

hati dengan perkem-bangan fasa pertama projek rintis tersebut bagi tempoh Oktober hingga Disember lalu yang melibatkan aspek kesalingal teknikal.

"Dalam tempoh itu, TNB dan beberapa pembekal perkhidma-tan internet (ISP) berjaya me-

lancarkan rangkaian itu tepat pada masa selain mencapai aspek susunan perdagangan yang



boleh ditawarkan," katanya. Beliau berkata de-

mikian pada sesi temu bualnya dengan media menjelang lawatan ta-pak SKMM ke Jasin

pak SKMM ke Jasin hari ini.
Projek rintis terse-but dilaksanakan me-nerusi inisiatif Pelan Gentian Optik dan Kesaling-hubungan Negara (NFCP) yang diumumkan dalam Belanjawan 2010

Kerajaan menyediakan peruntukan RM1 bilion bagi pelaksa-

naan NFCP.
Menurut laporan sebelum ini, projek rintis itu melibatkan 1,100 kediaman di tiga kawasan di Ja-sin iaitu Taman Merbau, Taman

sin iaitu Taman Merbau, Taman Maju dan Felda Kemendor. Sebaik fasa kedua projek rintis itu selesai mengikut jang-kaan pada Mac ini, hasilnya akan diteliti dan satu pelan akan dike-tengahkan untuk direplikasi di lokasi lain di seluruh negara. Melalui NFCP, kerajaan anta-

ra lain berhasrat memastikan rakyat berpeluang menikmati pelbagai perkhidmatan melalui capaian infrastruktur jalur lecapaari inirastrukur jaur le-bar berkualiti tinggi pada harga berpatutan selain menyokong perkembangan ekonomi digital dan Revolusi Industri 4.0. Menurut Al-Ishsal, Jasin di-

anggap sesuai untuk mensimu-lasikan rangkaian gentian ke kawasan yang berbeza dari segi demografi dan jenis premis ter-masuk rumah, rumah teres dan penempatan Felda. – Bernama



# LAMPIRAN 7 THE STAR (VIEWS): MUKA SURAT 17 TARIKH: 8 JANUARI 2019 (SELASA)

#### > Plastic problems

While I wish to support the use of biodegradable plastics, these plastics are not very strong, especially in holding heavier rubbish, so I often have to use a double layer. So what is the point? It comes back to square one, which is wasting plastic bags. Why can't local councils bring back communal dustbins? You hardly see them nowadays. In the past they were everywhere and you did not find rampant littering around residential areas. – J.Q.

In educating the public to reduce the use of single-use plastic bags, the government must lead by example. In this regard, Tan Sri Lee Lam Thye's comments that city and town council contractors must also comply with the plastic bag ruling when clearing garden refuse and debris are very appropriate and must be heeded ("Authorities must walk the talk", Views, *The Star*; online at tinyurl.com/star-plastics). – Amir

### **LAMPIRAN 8** THE STAR (STARLIFESYTLE): MUKA SURAT 7 **TARIKH: 8 JANUARI 2019 (SELASA)**





Part of the area under the houses of Sungai Satu on the first day of the project (left) and on the last day (right). - MPMA

## Six inches of trash

Cleaning out the trash from the Sungai Satu village on Pulau Ketam was a rather Herculean task.

By TAN SHIOW CHIN

IT all started with a Star2 story published on July 18 last year ("Towards a positive change"; online at tinyurl.com/star-mark-

e). The article was about Malaysian The article was about Malaysian director/producer Mark Lee becoming a finalist in the Picture This Festival For The Planet film competition organised by Sony Pictures Television Networks, in partnership with the United Nations Foundation.

Nations Foundation.
His three-and-a-half minute
short titled Mr Garbage, revolved
around fisherman-turned-aircon
technician Chua Hock Boon and
environmentalist Loh Keat Geok,
who were doing all they could to
clean Pulau Ketam of its accumulated trash.

who were doing all they could to clean Pulau Ketam of its accuration to the coast of Port Klang, Selangor, which houses handful of fishing villages and is infamous for the trash that has piled up under its stilled houses over the years. Lee is quoted in the article, explaining: "Like all other islands on the planet, the issue of waste management continues.

"What makes this 58g km island different from any-other island is that it is in realizy a mudfal. The island has no roads, so there are no garbage trucks. So there are no garbage trucks. So there are no garbage trucks. However, the dumpsite can no longer sustain and accommodate the volume of waste produced." When Malaysian Plastics. However, the dumpsite can no longer sustain and accommodate the volume of waste produced." When Malaysian Plastics Manufacturers Association (MPMA) president Datk Lim Kok Boon read this story, he was inspired to contact Chua, the eponymous Mr such as the same and the surrounding area."

Manufacturers Association (Marmay president Datuk Lim Kok Boon read this story, he was inspired to contact Chua, the eponymous Mr Garbage, to see if the association could help out.

What eventually materialised was a month-long clean-up project of one of the fishing villages on the island, called Sungai Satu, organ-



Volunteers cleaning out a muddy area - FAIHAN GHANI/The Star

ised by MPMA and sponsored by one of its members, Scientex Bhd, over October last year.

'And Because this Island is very close to the mainland, a lot of the things that get washed on the mainland into the drain, into the occan, gets floated here.

'So this island becomes the catchment for some of this -some of it is from here, but mostly, we believe it comes from all around the surrounding area.

The association realised that it would be impossible to clean all the waterfront areas of the entire island, so they chose the village of Sungai Satu, as it was "the most severely affected place".

On the first day they arrived, Lim says they were so surprised by the amount of garbage under the houses that they wondered if their idea, called the MPMA-Scientex

Sustainability Project, was even feasible.

Sustainability Project, was even feasible. He describes how they took a stick and stuck it into the ground to see how much trash there was. The stick went in six inches deep. "It was a big challenge, and we realised it couldn't be done in one day," he says was then divided into flow zones for the clean-up process. During low tide when the ground under the houses is exposed, the volunteers from Scientex and among the local residents, as well as hired workers, would go down to pick up the rubbish. During high tide when the sea water comes in and helps wash out the rubbish under the houses, the volunteers would use long-handled nets to scoop up the floating garbackers, and the sease was the contraction of the

#### Breaking it down

The different types of waste picked up during the MPMA-Scientex Sustainability Project on Pulau Ketam.

Recyclable 700kg

100kg Glass

2,300kg Driftwood 4

5,560kg Others (general waste)

Source: Malaysian Plastics Manufacturers Association (MPMA) ©The Star Graphics

1,200kg

and waste like driftwood and small branches. We driftwood and small branches. The season was the small small

#### Long-term effort

Long-term effort

However, the association is well aware that a one-time clean-up is merely a short-term solution.

Obviously, we realise there will be continued littering. We want the government, we want the public, we want everyone to understand, 'Do not litter.'

"But despite all the messages sent out, we recognise there will still be some people who will be ignorant of the whole thing, and so we will have litter.

"So we want to ensure that this effort continues," says Lim.
As the area beneath the houses is the most difficult to clean, the association has set up nets hanging association has set up nets hanging the ground, to prevent rubbish from floating under the houses during high tide.

In addition, booms made out of large half-filled plastic water bottles encased and joined together

Meanwhile, the items that are non-recyclable were transported off the island by a waste concessionaire and disposed of in the plearm Sanitary Landfill on the mainhand in Kapar, Selangor. They also picked up a lot of natural waste like driftwood and small branches.

recedes, it will go down and the rubbish will be collected in one area.

"So all you have to do is to walk around the area and pick it up." he explains.

Chua had previously made some chains are the put them around the sland for the enemes to put their recyclable trash.

The association has provided him with funding to make more of those cages so that they can be placed in more areas around the sland, making it more convenient for the islanders to recycle.

In addition, they designed a broad, low trolley, which Chua can hook to his motorbike to take the recyclable trash to the recycling centre.

hook to his motorbike to take the recyclable trash to the recycling centre.

Previously, he had been manually pushing the full cages to and from the centre. Now, all he has to do is empty the recyclables into a build be supply the recyclables into a build be supply the recyclables into a build to be supply the recyclables into do is empty the recyclables into a build to be supply the recyclables into a build be supply the recyclables into a build be supply the recyclables. All the tools used during the project, like the scoops (also made by Chua, a "very versatile man" as described by Lim) and secondand blue drums used to contain the rubbish, have been left for the residents to help maintain the cleanliness of their area.

"We will also be doing a 3R (reduce, reuse, recycle) programme with the residents here, "says Lim, adding that this programme will reach out to the other villages on the island, including the local students.



### LAMPIRAN 9 KOSMO (DUNIA): MUKA SURAT 41 TARIKH: 8 JANUARI 2019 (SELASA)



### LAMPIRAN 10 THE STAR (WORLD): MUKA SURAT 25 TARIKH: 8 JANUARI 2019 (SELASA)

# Breadmaking robot startup eyes new markets

LAS VEGAS: The robot breadmaker came to Las Vegas this week, aiming to bring some freshness to a sector that may be ready for disruption.

Wilkinson Baking Company unveiled its BreadBot at the Consumer Electronics Show, a machine that mixes and bakes up to 235 loaves a day.

Chief executive Randall Wilkinson said the device can lower costs and produce fresher breads than are available in most American supermarkets.

"Consumers want the freshest thing possible, but when they go into the store they don't know when that bread was baked," said Wilkinson, a member of the family-owned firm in Walla Walla, Washington.

Wilkinson said the machine, which takes up as much room as a mid-sized car, has more automation technology than bread factories, and can produce at a far lower cost.

He noted that using in-store

robotic machines could eliminate the need for truck delivery, which accounts for as much as 45% of the cost of most bread.

This means profits could get a

The company is in talks with major supermarket chains and also plans to deliver the robots to the US military for making buns on carrier fleets, Wilkinson said.

The bread robot – which was at a startup showcase on Sunday and will be on the show floor from today – joins a line of devices aimed at disrupting the food industry, including pizza-making robots and robotic baristas.

The current generation of BreadBot is designed for standard kinds of loaves but Wilkinson said the robots can be adapted for customised breads, even French baguettes.

"At some point you will be able to order a special loaf on your phone – you can add sunflower seeds, use less salt or whatever – and pick it up in an hour," he said. — AFP



Fresh loaves coming up: Wilkinson Baking Company's Eric Wilkinson showing the Breadbot, a robot breadmaker, at the Consumer Electronics Show in Las Vegas, Nevada. — Reuters

#### **LAMPIRAN 11** THE STAR (WORLD): MUKA SURAT 21 **TARIKH: 8 JANUARI 2019 (SELASA)**

# California storm causes power outages

LOS ANGELES: Tens of thousands of people lost power after a power-ful winter storm swept through Northern California, while another storm system in the southern part of the state unleashed mudslides in wildfire burn areas and trapped motorists on a major highway

The deluge loosened hillsides where a major blaze burned last year in and around Malibu, clogging the Pacific Coast Highway with

mud and debris yesterday.

A stretch of the scenic route northwest of Los Angeles was expected to remain closed in both directions until yesterday while crews tow away stuck vehicles and clear lanes.

No injuries were reported.

The rapper Soulja Boy was among those whose cars were mired in the muck that was up to 1.2m deep in some areas.

He retweeted a photo of the mud-slide and posted: "My car got stuck too almost went into the ocean", along with a prayer emoji.

An automated rain gauge in the western Santa Monica Mountains showed nearly 2cm of rainfall in one hour, said the National Weather Service.

"These are heavy rates," the weather service tweeted.

Up to 3.8cm of rain fell in coastal and valley areas, while mountain

communities got heavy snow.
Flash flood watches and warnings were eventually lifted for areas burned by the fires that scorched over 404sq km of brush and timber acres in November, destroyed about 1,600 structures and claimed three lives.

The sun emerged in Los Angeles on Sunday and the red carpet for the evenings Golden Globe awards



Hazy day: High-rise buildings in downtown Los Angeles rising above clouds and mist following an overnight

were expected to remain dry.

Scattered showers were possible later in the night.

To the north, wind and rain forced delays or cancellations of flights out of San Francisco Inter-national Airport for a second day.

wind advisory was in place

until 10pm yesterday. The San Francisco Bay Area could

get up to 3.8cm of rain.
Strong winds and downed trees knocked out electricity for at least 80,000 customers across the Sacramento region on Sunday night.

The National Weather Service said on Sunday that winds gusted up to 79 kph.
Saturday's storm brought about

30cm of snow to the Sierra Nevada with twice that amount expected on Sunday. A winter storm warning was in effect until 4am yesterday.

Avalanche warnings were posted in parts of California, Nevada and Utah. The Sierra Avalanche Center issued a backcountry avalanche warning for the Lake Tahoe area stretching south into the Sierra along the California-Nevada line from noon on Sunday until 7am yesterday.

The National Weather Service

said blizzard conditions with galeforce winds could trigger wide-spread avalanche activity.

About 61cm of snow was reported at Mammoth Mountain 241km south of Tahoe. Over 30cm fell in the upper elevations around Tahoe. Windstorms that pummelled parts

of Washington state and Oregon the weekend left hundreds of thousands of people without electricity. -AP