

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

Bil	Berita	Media	Capaian Berita Penuh
1.	<u>Sweden at Sustainable Living and Innovation Caucus Malaysia</u> With innovation as the central thread, the event draws inspiration from the Swedes and the Dutch in showcasing how rapid urbanisation can happen at a minimal cost to the environment. The event was officiated by new Minister of Energy, Technology, Science, Climate Change and The Environment, Ms Yeo Bee Yin.	Scandasia.com	Klik pada tajuk berita
2.	<u>Current laws inadequate to deal with cross-border cybercrimes, says expert</u> CyberSecurity Malaysia senior vice-president of Strategic Research Division, Sazali Sukardi, said local laws are only applicable within the boundaries of Malaysia — which makes them impossible to be utilised against external threats.	Malay Mail	Klik pada tajuk berita
3.	<u>Econ 4.0: Are you secure enough?</u> MyCERT has been tracking the country's cybersecurity levels since it was set up in 1997. It operates the Cyber999 Help Centre and the Cybersecurity Malaysia Malware Research Centre. Such concerted efforts are required because no entity is free from the cancerous claws of cybercriminals.	The Edge Market	Klik pada tajuk berita

TEMPATAN

Bil	Berita	Media	Capaian Berita Penuh
4.	<u>Good command of English crucial</u> He commended the Ministry of Education, Science and Technological Research (MESTR) for organising the three-day symposium from Aug 27 to 29 which serves as a platform for international experts to share their views and	The Borneo Post	Klik pada tajuk berita

	experiences with local teachers and school administrators.		
5.	<p><u>Sanitary landfill sufficient to tackle waste issue</u></p> <p>WE refer to the article “Waste-to-energy plant in Kepong – yes or no?” (The Star, Aug 25). The writer discussed the solid waste issue in the country and the concern about the growing waste volume, particularly in the Klang Valley that generates about 2,300 tonnes of waste a day, the highest in the country.</p>	The Star	Rujuk lampiran 1
6.	<p><u>Pelan pacu 4.0</u></p> <p>Kerajaan akan memberi nafas baru kepada Koridor Raya Multimedia (MSC) dan Cyberjaya sejajar dengan perkembangan teknologi semasa.</p>	Harian Metro	Rujuk lampiran 2
7.	<p><u>Serba Dinamik manfaat teknologi baharu</u></p> <p>“Penjimatan ini berbeza mengikut pelanggan, tetapi sebagai contoh, sebuah syarikat yang saya tidak boleh nyatakan namanya. Kami menggunakan teknologi kecerdasan buatan (AI) bersama teknologi lain untuk mendiagnos masalah dihadapi pelanggan kami ini.</p>	Berita Harian	Rujuk lampiran 3
8.	<p><u>Himpunan pakar industri elektrik di CEPsi 2018</u></p> <p>Bertemakan “Reimagining Utility of the Future”, persidangan enam hari itu dihoskan Tenaga Nasional Berhad (TNB) bagi pihak Persatuan Industri Bekalan Elektrik Asia Timur dan Pasifik Barat.</p>	Berita Harian	Rujuk lampiran 4
9.	<p><u>Be like TNB</u></p> <p>I note that the TNB meter reader comes to the home/ office to take a meter reading and immediately renders a bill, unlike the Air Selangor meter man who reads the meter and then sends the bill for payment, via the post office.</p>	The Star	Rujuk lampiran 5

10.	<p><u>Gobind: Cost hindering last mile broadband connectivity/ Terrain, fibre optic cost hindering last mile connectivity, says minister</u></p> <p>TNB's network has not been put to commercial use and is mainly utilised for its internal systems. A deal with TNB is seen as a major catalyst to achieve better and cheaper broadband connectivity.</p>	Malay Mail	Rujuk lampiran 6 atau klik pada tajuk berita
11.	<p><u>SC pantau pelancaran Lavidia Coin</u></p> <p>Suruhanjaya Sekuriti Malaysia (SC) sedang memantau maklumat mengenai pelancaran mata wang kripto Lavidia Coin bagi menentukan sama ada wujud sebarang pelanggaran undang-undang sekuriti.</p>	Berits Harian	Rujuk lampiran 7

ANTARABANGSA

Bil	Berita	Media	Capaian Berita Penuh
12.	<p><u>Renewable resort</u></p> <p>The sea horse-shaped Greek island between Rhodes and Kos has a winter population of 400. But that swells to as many as 3,000 people in the summer, putting an impossible strain on its dilapidated power supply.</p>	The Star	Rujuk lampiran 8
13.	<p><u>Chinese bitcoin players aim to raise billions in HK IPOs</u></p> <p>Three of the world's largest bitcoin mining equipment makers plan to raise billions of dollars with initial public offerings in Hong Kong, even as other companies report plunging demand for the chips needed to make bitcoin and a halving in the price of the cryptocurrency.</p>	The Star	Rujuk lampiran 9
14.	<p><u>Climate change will make hundreds of millions more people nutrient deficient</u></p> <p>Rising levels of carbon dioxide could make crops less nutritious and damage the health of hundreds of millions of people, research has</p>	The Guardian	Klik pada tajuk berita

	revealed, with those living in some of the world's poorest regions likely to be hardest hit.		
15.	<p><u>Climate change is World War III, and we are leaderless</u></p> <p>"World War III is well and truly underway. And we are losing," writes environmental activist Bill McKibben, so when Malcolm Turnbull implied that the insurgency that demolished his government was based on climate ideology, what lessons are there for Scott Morrison?</p>	ABC News	Klik pada tajuk berita
16.	<p><u>'No real appetite': former farmers chief lashes ministers over climate link to drought</u></p> <p>The former president of the National Farmers' Federation, Brent Finlay, has accused politicians of "jumping in front of the cameras" while shirking effective policy work on drought and climate change.</p>	The Guardian	Klik pada tajuk berita
17.	<p><u>Air pollution causes 'huge' reduction in intelligence, study reveals</u></p> <p>Air pollution causes a "huge" reduction in intelligence, according to new research, indicating that the damage to society of toxic air is far deeper than the well-known impacts on physical health.</p>	The Guardian	Klik pada tajuk berita
18.	<p><u>South Africa Drops Nuclear, Adds Renewables in Energy Plan</u></p> <p>South Africa has dropped proposals to boost supply from nuclear plants in its latest energy blueprint and will increasingly harness renewable sources as it trims a reliance on coal.</p>	Bloomberg	Klik pada tajuk berita
19.	<p><u>How Carbon Lighthouse Mines Wasted Energy From the Built Environment</u></p> <p>Carbon Lighthouse CEO Brenden Millstein wants to stop climate change by tapping the cheapest resource there is: wasted energy. But in a crowded energy efficiency and services market, his company has found that data complexity — and business model simplicity — is an essential part of that mission.</p>	Greentech Media	Klik pada tajuk berita

LAMPIRAN 1
THE STAR (VIEWS): MUKA SURAT 32
TARIKH: 28 OGOS 2018 (SELASA)

Sanitary landfill sufficient to tackle waste issue

WE refer to the article "Waste-to-energy plant in Kepong – yes or no?" (*The Star*, Aug 25). The writer discussed the solid waste issue in the country and the concern about the growing waste volume, particularly in the Klang Valley that generates about 2,300 tonnes of waste a day, the highest in the country.

The writer also touched on the recently shelved Kuala Lumpur incinerator project, and the position taken by the Housing and Local Government Minister Zuraida Kamaruddin, who said the incinerator project was suspended to enable the ministry to seek alternative and more eco-friendly ways to dispose of waste.

The article also stated that the Kuala Lumpur Tak Nak Insinerator (KTI) action group is against any burning of rubbish as it would harm the environment, and hopes the government will find a solution that does not involve the burning of waste.

In the context of Kuala Lumpur, the Bukit Tagar Sanitary Landfill (BTSL) has been managing Kuala Lumpur's waste since 2005.



Currently, BTSL is managing all solid waste generated from Kuala Lumpur and several municipalities from Selangor, receiving approximately 2,500 tonnes of waste per day from these parties.

With a total capacity of 120 million metric tonnes, BTSL has sufficient capacity to last over 100 years based on the daily amount it cur-

rently receives, even after taking into account annual waste volume increment over the years.

A solution of over 100 years is as good as a permanent solution for Kuala Lumpur. There is no need to look for any alternative solid waste facilities for Kuala Lumpur for many more years to come. Instead, the authorities should consider

ways to reduce waste volume through recycling and other similar means.

BTSL is a Level 4 sanitary landfill based on the USEPA (United States Environmental Protection Agency) standard, the highest level in sanitary landfills. It has full HDPE membrane liner, leachate collection and treatment facilities, comprehensive landfill gas management system and power generation facility connected to the national grid.

With these credentials, BTSL fits the bill in satisfying the requirements of the government that wants the most suitable, cost-effective and convenient way to manage rubbish. With BTSL, there's no need for the Kuala Lumpur incinerator at all as BTSL is more than capable of managing Kuala Lumpur's waste for the long term in every aspect in relation to capacity, tipping fee, social consideration, technology and environmental compliance.

CHOCK ENG TAH
Managing director
KUB-Berjaya Enviro (BTSL
Concessionaire)

LAMPIRAN 2
HARIAN METRO (BISNES): MUKA SURAT 68
TARIKH: 28 OGOS 2018 (SELASA)

■ Kerajaan beri lebih tumpuan teknologi baru, aplikasi di Cyberjaya

Manirajan Ramasamy
dan Mahanum Abdul Aziz
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Kuala Lumpur

Kerajaan akan memberi nafas baru kepada Koridor Raya Multimedia (MSC) dan Cyberjaya sejajar dengan perkembangan teknologi semasa.

Perdana Menteri, Tun Dr Mahathir Mohamad berkata, kerajaan akan memberi lebih tumpuan dalam teknologi baru dan aplikasinya terutama bagi pentadbiran.

Beliau berkata, kerajaan akan menggalakkan penggunaan Cyberjaya untuk industri berkenaan.

"Cyberjaya ketika ini menjadi pembangunan biasa saja, banyak bangunan dan pangsapuri dan sebagainya. Tiada aplikasi (seperti sepatutnya).

"Bagaimanapun, kami mahu memberi tumpuan semula kepada industri berasaskan teknologi," katanya.

Beliau berkata demikian pada sidang media selepas menyampaikan ucapan utama di Persidangan dan Pameran Bandar Raya 4.0 dan Perniagaan 4.0 Antarabangsa di sini, semalam.

Ditanya sama ada gelombang kedua MSC, Dr Mahathir berkata: "Ya...saya rasa kita patut."

Lagipun, katanya, pada



“ Dengan kemampuan untuk menyesuaikan pengetahuan dan menggunakan teknologi, saya yakin Malaysia akan maju dengan lebih pantas”

Dr Mahathir

**PELAN
PACU
MSC 2.0**

masa ini orang ramai sudah mempunyai akses kepada pengetahuan dan teknologi baru.

Terdahulu, dalam ucapannya, Dr Mahathir menegaskan Malaysia mampu membangun dengan lebih pantas menerusi penggunaan teknologi dan pendigitalan.

Beliau berkata, generasi muda dilihat selesai dengan

perkembangan baru itu dan menyesuaikan diri dengan pengetahuan teknologi dan pendigitalan.

"Dengan kemampuan untuk menyesuaikan pengetahuan dan menggunakan teknologi, saya yakin Malaysia akan maju dengan lebih pantas," katanya.

Persidangan dan pameran tiga hari yang bertemakan

Meningkatkan Bandar Raya Pintar dan Penggunaan Digital di Malaysia dan Rantau. Ini itu bertujuan mendedahkan peserta dengan maklumat penting dan strategi bagi mengguna pakai transformasi digital dalam pelbagai aspek perancangan dan pembangunan bandar serta meningkatkan kecekapan dan perkhidmatan kepada rakyat.

LAMPIRAN 3
BERITA HARIAN (BISNES): MUKA SURAT 56
TARIKH: 28 OGOS 2018 (SELASA)

Serba Dinamik manfaat teknologi baharu

Serba Dinamik Holdings Bhd bersedia untuk memperkenalkan perkhidmatan baharu menggunakan teknologi berasaskan realiti bercampur, menerusi kerjasama dengan Microsoft untuk pelanggannya seawal suku pertama tahun depan.

Teknologi itu membolehkan Serba Dinamik membantu mendiagnosis masalah atau kerosakan peralatan milik pelanggannya di seluruh dunia secara komunikasi jarak jauh menggunakan paparan lekapan kepala (HMD) Microsoft HoloLens.

Selain itu, teknologi berkenaan turut menyediakan platform kepada Serba Dinamik untuk

menyediakan latihan atau pendidikan secara jarak jauh untuk pelanggannya.

Ketua Pegawai Eksekutif Kumpulannya, Datuk Dr Mohd Abdul Karim Abdullah, berkata ketika ini Serba Dinamik sedang menyiapkan pembuktian konsep (PoC) perkhidmatan terbabit yang dijangka disiapkan sepenuhnya menjelang akhir tahun ini.

Katanya, PoC ini akan dilakukan di loji milik anak syarikatnya, PT Serba Dinamik Indonesia di Jambi, Indonesia.

"Kemudian kami menyasar untuk mengeluarkan pakej komersial perkhidmatan berkenaan untuk pelanggan sedia ada dan yang ber-

potensi pada suku pertama tahun depan," katanya pada sidang media selepas majlis memeterai memorandum persefahaman (MoU) antara Serba Dinamik dan Microsoft di Kuala Lumpur, semalam.

Serba Dinamik diwakili oleh Mohd Abdul Karim, manakala Microsoft oleh Pengarah Urusan Microsoft Malaysia, K Raman.

Jimat kos operasi

Mengulas lanjut, Mohd Abdul Karim berkata, perkhidmatan baharu ditawarkan pihaknya itu mampu menjimatkan kos operasi pelanggannya.

"Penjimatan ini berbeza mengikut pelanggan, tetapi sebagai

contoh, sebuah syarikat yang saya tidak boleh nyatakan namanya. Kami menggunakan teknologi kecerdasan buatan (AI) bersama teknologi lain untuk mendiagnosis masalah dihadapi pelanggan kami ini.

"Kami dibayar kira-kira RM5 juta untuk menyelesaikan masalah mereka dan penjimatan yang diraih mereka ialah sehingga RM100 juta. Penjimatan sebesar ini berjaya dicapai kerana perkhidmatan ini menyelamatkan banyak aset mereka daripada gagal beroperasi.

"Namun, penjimatan sebenar adalah berbeza untuk setiap kes. Bagaimanapun, ia sudah mencukupi untuk meyakinkan pemilik aset

supaya menggunakan perkhidmatan ini pada masa akan datang," katanya.

Ditanya mengenai tinjauan industri minyak dan gas (O&G) katanya, beliau berpendapat industri itu kini mula menjadi industri yang kukuh dan meyakinkan.

"Semua situasi yang melanda di seluruh dunia seperti sekatan terhadap Iran yang akan menyebabkan kehilangan bekalan untuk pasaran global dan situasi melanda Venezuela ketika ini menyebabkan harga minyak diniagakan di antara AS\$65-AS\$75 satu tong yang mana adalah harga yang baik dan mampu memberi pulangan kepada pemilik aset," katanya.

LAMPIRAN 4
BERITA HARIAN (BISNES): MUKA SURAT 56
TARIKH: 28 OGOS 2018 (SELASA)

Himpunan pakar industri elektrik di CEPSI 2018

Pakar industri bekalan elektrik akan berkongsi idea sempena Persidangan Industri Bekalan Elektrik (CEPSI 2018), pada 17 September ini.

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

Kupas pelbagai isu baharu

TNB dalam satu kenyataan semalam, berkata acara itu dijangka akan menarik penyertaan lebih 1,500 delegasi dengan menampilkan 15 penceramah berprofil tinggi dalam pelbagai tajuk, termasuk 'Aliran global dan perubahan besar dalam elektrik dan tenaga'.

Sesi bertajuk 'Utiliti masa depan dan pembangunan mampan' juga akan turut diadakan di mana pakar akan mengupas pelbagai isu baharu yang muncul akibat perubahan ekonomi, pengawalseliaan dan teknologi selain tajuk 'Pembangunan Hijau dan Transformasi dalam Industri Bekalan Elektrik (ESI)'.

BERNAMA

**Fakta
nombor**

1,500 DELEGASI
bakal sertai CEPSI 2018

15 PENCERAMAH
bakal tampil pada CEPSI 2018

LAMPIRAN 5
THE STAR (VIEWS): MUKA SURAT 32
TARIKH: 28 OGOS 2018 (SELASA)

> Be like TNB

I note that the TNB meter reader comes to the home/office to take a meter reading and immediately renders a bill, unlike the Air Selangor meter man who reads the meter and then sends the bill for payment, via the post office. Why can't it be like TNB, which to me is an efficient and cost-saving way? – Mkaur

LAMPIRAN 6
MALAY MAIL: MUKA SURAT 30
TARIKH: 28 OGOS 2018 (SELASA)

Gobind: Cost hindering last mile broadband connectivity

By Ranjit Singh
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KUALA LUMPUR — Malaysia is facing difficulty in ensuring 100 per cent broadband connectivity nationwide because of rough terrain and high cost in installing fibre optic cables, said Communications and Multimedia Minister Gobind Singh Deo.

He said there were still many remote areas that remained jungle or had not been developed, and the government needed to come up with a national fiberisation plan to carry out full nationwide internet coverage.

But his ministry was in the process of cutting red tape at state government level to facilitate the installation of underground fibre optic networks under the National Broadband Initiative.

"I was informed that we have to apply to the states to lay the fibre optic cables and there were many bureaucratic problems," he said after launching the fourth meeting of the Asia Pacific Telecommunity Conference at hotel here yesterday.

"Besides being time-consuming, it also involves a high cost. If we can overcome these problems, I feel we can speed up the fiberisation policy and also reduce the cost, which ultimately lowers the cost for consumers."

Gobind said the country's broadband coverage is currently at 94.4 per cent in populated areas, and the government aims to achieve 94.5 per cent by year-end.

He said that in the present financial climate, many governments were faced with a limited amount of resources for the information and communications technology sector, which remained one of the key drivers for economic growth.

He reiterated that the government has sought to standardise internet access through pricing, which requires all telecommunications companies to lower their respective broadband prices by 25 per cent in stages by year-end.

Telekom Malaysia Bhd and Tenaga Nasional Bhd (TNB) have teamed up to implement the national broadband agenda.

The national utilities company is banking on the plan to monetise its 12,000km high-speed fibre network, which runs along its transmission lines.

TNB's network has not been put to commercial use and is mainly utilised for its internal systems.

A deal with TNB is seen as a major catalyst to achieving better and cheaper broadband connectivity.

LAMPIRAN 7
BERITA HARIAN (BISNES): MUKA SURAT 24
TARIKH: 28 OGOS 2018 (SELASA)

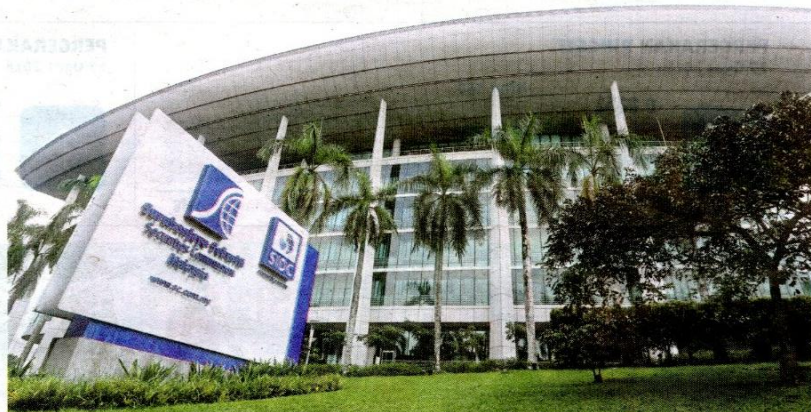
SC pantau pelancaran Lavidia Coin

Fakta nombor

RM2.71
harga awal
1 Lavidia Coin

RM99
harga bagi 30 unit
Lavidia Coin

RM6.14 BILION
sasaran pengumpulan
dana Lavidia Coin



SC memantau Lavidia Coin bagi menentukan sama ada wujud sebarang pelanggaran undang-undang sekuriti.

➔ Orang ramai perlu waspada pelaburan wang kripto, token

Oleh Sofyan Rizal Ishak
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Suruhanjaya Sekuriti Malaysia (SC) sedang memantau maklumat mengenai pelancaran mata wang kripto Lavidia Coin bagi menentukan sama ada wujud sebarang pelanggaran undang-undang sekuriti.

Badan pemantau pasaran modal negara itu berkata, orang awam dinasihatkan untuk lebih berhati-hati dengan sebarang skim pelaburan, terutama yang membabitkan mata wang kripto dan token digital.

"Kami sudah pun menerima pertanyaan mengenai penerbitan kertas putih bagi penawaran Lavidia Coin kepada orang ramai," katanya pada kenyataan di Kuala Lumpur, semalam.

Kertas putih itu mendakwa

Lavidia Coin ditawarkan sebagai inisiatif pembiayaan swasta bagi pengumpulan modal dan dana bernilai, untuk pembangunan tiga projek dan hanya pembiayaan ramai yang dapat memenuhi keperluan pembiayaan terbabit.

Evolusi mata wang maya

Sebelum ini, Datuk Seri Vida (DSV) dilaporkan memperkenalkan mata wang digital atau kripto dikenali Lavidia Coin pada harga awal yang ditetapkan, iaitu 1 LVC bersamaan AS\$0.66 (RM2.71).

Ahli perniagaan dan selebriti itu juga mempelawa orang ramai yang berminat untuk membeli Lavidia Coin dengan harga serendah RM99 bagi 30 unit Lavidia Coin sehingga RM9,900 (3,000 Lavidia Coin).

Urus niaga dijalankan dalam ringgit Malaysia, dolar Singapura, dolar Brunei dan dolar Amerika

Syarikat (AS).

Model perniagaan Lavidia Coin itu menyasarkan pengumpulan dana berjumlah AS\$1.5 bilion (RM6.14 bilion) bagi membiayai tiga projek iaitu, saluran hiburan atas talian (AS\$1 bilion); saluran pembayaran LavidiaPay (AS\$100 juta) dan pembinaan hab komuniti Islam yang berpusat di masjid (AS\$400 juta).

Mata wang kripto atau mata wang digital ialah sebahagian daripada evolusi mata wang maya yang dicipta dan disimpan secara elektronik.

Konsep terbaru

Ia konsep terbaru yang wujud dalam ekonomi global menggunakan konsep kriptografi serta teknologi lejar yang membolehkan pemiliknya membuat pembayaran secara maya untuk barang dan per-

Info

Model perniagaan

Lavidia Coin itu menyasarkan pengumpulan dana berjumlah AS\$1.5 bilion (RM6.14 bilion) bagi membiayai tiga projek iaitu, saluran hiburan atas talian (AS\$1 bilion); saluran pembayaran LavidiaPay (AS\$100 juta) dan pembinaan hab komuniti Islam yang berpusat di masjid (AS\$400 juta).

➔ **Antara contoh mata wang kripto** ialah 'Bitcoin', 'Ethereum', 'Rip-ple' dan 'Nem', namun yang paling popular adalah Bitcoin yang dilancarkan pada November 2008 oleh Nakamoto Satoshi.

khidmatan tanpa campur tangan pihak ketiga seperti bank, sekali gus memudahkan proses serta mengurangkan kos transaksi.

Antara contoh mata wang kripto ialah 'Bitcoin', 'Ethereum', 'Rip-ple' dan 'Nem', namun yang paling popular adalah Bitcoin yang dilancarkan pada November 2008 oleh Nakamoto Satoshi.

Bank Negara Malaysia (BNM) selaku bank pusat negara menegaskan wang kripto kekal tidak diiktiraf sebagai mata wang sah diperlakukan (legal tender).

Malah, BNM mengulangi pendirian yang Malaysia tidak melarang pelaburan mata wang kripto buat masa ini sebaliknya membiarkan pasaran membuat keputusan mengenainya.

"Mereka yang melabur dalam mata wang kripto mesti mengetahui ia berisiko tinggi," kata BNM.

LAMPIRAN 8

THE STAR (ECOWATCH): MUKA SURAT 4

TARIKH: 28 OGOS 2018 (SELASA)



When the blades of this 800kWh wind turbine start turning later this year, Tilos will become the first island in the Mediterranean to run exclusively on wind and solar power. — Photos: AP

Renewable resort

This Greek island will run entirely on wind and solar power.

By ILIANA MIER

WHEN the blades of its 800kWh wind turbine start turning, the small Greek island of Tilos will become the first in the Mediterranean to run exclusively on wind and solar power.

The sea horse-shaped Greek island between Rhodes and Kos has a winter population of 400. But that swells to as many as 3,000 people in the summer, putting an impossible strain on its dilapidated power supply.

This summer, technicians are conducting the final tests on a renewable replacement system that will be fully rolled out later this year. It will allow Tilos to run exclusively on high-tech batteries recharged by a wind turbine and a solar park.

The European Commission says Tilos will be the first autonomous renewable green island in the Mediterranean. It plans to use the project as a blueprint for other small islands across the European Union that have limited grid connection to the mainland. The EU has largely funded the project, providing €11m (RM52m) of the

total €13.7m (RM65m) cost.

"The innovation of this programme and its funding lies in the batteries – the energy storage – that's what's innovative," project manager Spyros Aliferis says.

"The energy produced by the wind turbines and the photovoltaics will be stored in batteries, so that this energy can be used for the grid when there is demand."

The batteries store power during sunny and windy conditions, releasing it during periods of heavy demand and lower production – such as at night and the peak tourist season – to keep the grid powered up.

Named Tilos (Technology Innovation for the Local Scale Optimum Integration of Battery Energy Storage) the project uses a prototype battery system that improves storage of the excess energy generated until it's needed.

To work, it required an overhauled grid with smart meters installed in homes and businesses to calculate times of peak demand.

Currently, Tilos (the island) gets its energy from an underwater cable that runs from Kos to the island of Nisiros and on to Tilos.

That creates an erratic, out-of-age-prone service that routinely breaks appliances and has forced many businesses to rely on diesel generators.

While lacking the dazzle of other Greek islands like Mykonos and Santorini, Tilos – a 14-hour ferry ride from the mainland – is a quiet vacation spot that sees an average of 13,000 visitors a year. It's known as a green island, popular with hikers and bird watchers, and most of it is now a protected nature reserve.

Mayor Maria Kamas saw a green energy system as the island's natural next step.

"For many years now, Tilos has plotted a course that is dedicated to protecting the environment," she says. "We are seeking visitors – tourists, actually – people who will visit our island who love the environment and want to protect it and nature as it was given to us."

Tourism is the main source of revenue for the island. But businesses have been plagued by lengthy blackouts, leaving hotels without air conditioning and restaurants without light or power, forcing them to discard food from



One of the solar parks on the island.

warm refrigerators.

Hotel owner Sevasti Delaporta has closely followed the project since its inception over two years ago. There were initial doubts about the idea among Tilos residents, but tests have run smoothly, even during peak times this summer. The grid is expected to be fully operational in a few months.

"I'm very optimistic about this project because there are few negative consequences as a business, and for the guests of the hotel that I run," says Delaporta. "People are pleased with the service because they have no problem with their fridges and they have no problem with their air conditioning. They are happy."

With long sunny days and aver-

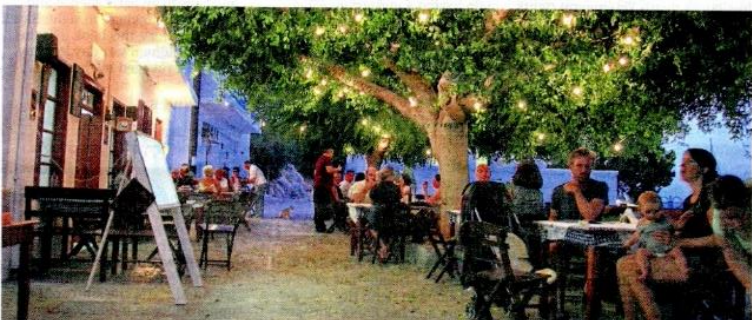
age temperatures of 33°C during the summer, tourists spend their mornings at the beach and afternoons napping. The island comes alive in the evening, when businesses open and residents and tourists alike flock to bars and cafes.

Eva Lemaire has visited the island every year for more than two decades. Coming from the Netherlands, which has one of the world's highest environmental standards, she says Tilos' green policies stand out in Greece.

"I'm also a little bit proud of Tilos about what they are doing now, with the renewable energy," she says. "I think it's good for the island not to be dependent on other islands." – AP



Locals are happy with the promise of a steady power supply for their businesses.



Everyone, locals and tourists alike, flock to cafes, bars and restaurants in the evenings, so not having power to run refrigeration and lights can affect business.

LAMPIRAN 9
THE STAR (FOREIGN NEWS): MUKA SURAT 8
TARIKH: 28 OGOS 2018 (SELASA)

Chinese bitcoin players aim to raise billions in HK IPOs

Bitmain, Canaan and Ebang each targeting listings in coming months

HONG KONG: Three of the world's largest bitcoin mining equipment makers plan to raise billions of dollars with initial public offerings in Hong Kong, even as other companies report plunging demand for the chips needed to make bitcoin and a halving in the price of the cryptocurrency.

Soaring cryptocurrency prices last year triggered a boom in demand for specialist mining chips and in developing "mines" – facilities with thousands of machines that create the coins by solving complex mathematical puzzles.

Yet the US chipmaker Nvidia Corp said this month that second-quarter sales to crypto miners totalled just US\$18mil, compared with US\$100mil expected by analysts.

Nvidia's chief financial officer, Colette Kress, said she anticipated "no contribution" to revenues from cryptocurrency in coming months.

That has raised concerns about the upcoming Hong Kong listings by three Chinese manufacturers of bitcoin mining equipment, Bitmain, Canaan Inc and Ebang International Holdings.

The companies all design high-end computer chips intended for mining cryptocurrencies, particularly bitcoin, and sell mining equipment containing the chips. In addition,

Bitmain mines cryptocurrencies on its own account. Companies like Nvidia also sell specialty chips used for mining.

"The marked decline in the price of bitcoin since the start of the year is likely to weigh on investors' interest in these companies," said Benjamin Quinlan, chief executive of financial services consultancy Quinlan & Associates.

But, he added, "the fall in the price of bitcoin from its peaks has not been matched by an equivalent fall



Digital miner: A technician inspects bitcoin mining machines at a mining facility operated by Bitmain in Inner Mongolia, China. Cryptocurrency trading is a global activity, but Chinese chipmakers have led the way in developing the most efficient means to mine the coins. — Bloomberg

in the numbers of people mining it."

Bitcoin is currently trading at US\$6,699, down 64% from its December 2017 peak of US\$18,690.

Daily mining revenue was 77% lower than in December, according to Blockchain.info, a data analytics and wallet provider.

"As the bitcoin price decreases, so does the profitability of mining itself, which decreases demand for mining chips and miners," said Wang Leilei, a consultant at financial services consultancy Kapronssia.

It is not just the price of bitcoin that is causing worries.

People close to the IPOs said regulatory scrutiny and a patchy per-

formance by Hong Kong offerings this year were additional concerns.

Julian Hosp, president of TenX, a Singapore-based blockchain firm, has also warned that if coins switch mining algorithms, then the machines designed to mine them would become useless.

"I would be quite wary of investing in these miners," Hosp said, referring to the equipment makers.

"They are not long-term businesses and I think they've had their upturn for now."

Canaan and Ebang filed plans in May and June respectively for floats in Hong Kong, while Bitmain is expected to file its plans next month for an IPO in which it aims to raise

at least US\$3bil, sources close to the deal said.

Cryptocurrency trading is a global activity, but Chinese chipmakers have led the way in developing the most efficient means to mine the coins.

Bitmain had three quarters of the market for the specialist chips last year, followed by Canaan on 14%, according to estimates by analysts at Bernstein.

Ebang is aiming to raise up to US\$1bil, according to sources, while Canaan is targeting at least US\$400mil – down from a figure of up to US\$2bil touted earlier this year by people involved in the deal. — Reuters