

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

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| 1.         | <a href="#"><u>Malaysia can generate more electricity if all roofs use solar panels, says Yeo</u></a> | The Star              | Klik pada tajuk berita                    |
| 2.         | <a href="#"><u>Climate leadership, clean growth crucial for survival</u></a>                          | New Straits Times     | Klik pada tajuk berita / Rujuk lampiran 1 |
| 3.         | <a href="#"><u>Jana pendapatan dengan cendawan Volverella</u></a>                                     | Sinar Harian          | Klik pada tajuk berita                    |
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LAMPIRAN 1  
 NEW STRAITS TIMES (OPINION): MUKA SURAT 66  
 TARIKH: 15 MEI 2019 (RABU)



NICK BRIDGE

CLIMATE CHANGE

# CLIMATE LEADERSHIP, CLEAN GROWTH CRUCIAL FOR SURVIVAL

The United Kingdom seeks to collaborate with Malaysia to help address the climate challenge issues we face

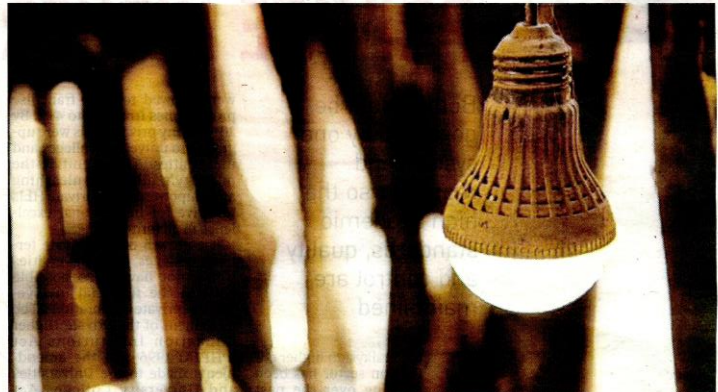
**T**HIS month the United Kingdom Parliament declared an environment and climate emergency. Many countries are following the UK's lead.

The United Nations says we could have just 11 years left to limit a climate change catastrophe, and that a million species are at threat of extinction due to human activity. We are eroding our economies, livelihoods, food security, health and quality of life worldwide and need to make rapid, transformational change. Young people around the globe are rightly calling on governments to do more — act now to prevent disaster later.

That's why I've come to Kuala Lumpur this week. I want to build a strong partnership between the UK and Malaysia on tackling climate change. We have a responsibility to allow our children to live in a world not irreversibly damaged by human activity. All countries must work together to make our economies cleaner and greener — now and for future generations.

I know that people in Malaysia have voiced out their concern over the impact of climate change to which they are particularly vulnerable. A two degree temperature rise — likely if we do not scale back carbon emissions urgently — would increase the frequency and intensity of extreme weathers in Malaysia, which include major flash floods in cities. If the high emission scenario continues, and without large investments in adaptation, an annual average of 234,500 Malaysians are projected to be affected by flooding due to a rise in sea levels between 2070 and 2100.

What can we do? A large part of the answer is to reduce carbon emissions by investing rapidly in green growth. Clean and sustainable energy, transport, agriculture and industry means cheaper energy, more and better jobs,



Malaysia is embarking on an ambitious renewable energy generation target — to grow the share to 20 per cent by 2025. An example is the net energy metering programme, to catalyse and scale up renewable energy growth. REUTERS PIC

cleaner air, better health and nutrition, more liveable towns and cities and an enriched natural environment. The UK, as a climate leader, has reduced emissions by 43 per cent since 1990, while growing the British economy by two thirds. We are determined to speed this process up further — the UK's independent Climate Change Commission recommended this month that the UK legislate now to reach net-zero greenhouse gas emissions by 2050, which would make us the first major economy to pass laws to end our contribution to global warming entirely.

All our unabated coal-fired power stations will close by 2025, and just last week the UK announced that it had gone for over a week without using any coal to generate power. That's a good feeling. Yet only seven years ago, coal produced 40 per cent of the UK's power. With an ambitious clean growth strategy and strong investment in and commitment to renewables, transformational change is possible and economically fruitful. It is win-win for the climate and for the economy.

The International Renewable Energy Agency estimates that renewable energy will be cheaper than unsubsidised fossil fuels everywhere in the world by 2020. Offshore wind in the UK (40 per cent of the world's total) is already cheaper than coal, nuclear power and gas. India is investing

heavily in solar and wind — from 50 gigawatts to 225 gigawatts in the next four years. South Africa and Chile have successfully pivoted away from coal.

I know that Malaysia is embarking on an ambitious renewable energy (RE) generation target — to grow the share to 20 per cent by 2025. In addition, the new government is also ramping up energy efficiency in public sector buildings, undertaking a holistic electricity market reform; and tabling a new bill in Parliament on Energy Efficiency and Conservation by this year.

Malaysia is increasingly recognising its own huge potential for renewables, particularly solar (much better than the UK), biogas and biomass, though its renewable energy targets which would help meet its 4.8 per cent annual electricity demand growth, provide economic opportunities and growth.

Growing the RE portfolio in the energy mix would help Malaysia make that transition of unlocking the country into a negative long term trend for emissions, financial instability through stranded fossil fuel assets, and declining health (coal-fired power contributes to around eight million premature deaths globally each year, primarily in Asia).

During my visit to Malaysia, I will be discussing how the UK's expertise and support can encourage Malaysia's low carbon

transition through our various joint partnership programmes. I am keen to offer the UK's expertise in legislation and policy making, institutional framework set-ups, mitigation measures, addressing climate risk, our global leadership on renewable energy generation, low emission/electric vehicle technology and as a global centre for green finance (City of London). And our Prosperity Fund Asean Low Carbon Energy Programme will invest in growing Malaysia's capacity to access the green finance needed for transformational change.

At the international level, I hope the UK and Malaysia can collaborate towards ambitious UN climate talks in Chile this year and particularly in 2020, when I am lobbying for Britain to host the talks. Such a partnership could help energise this region, and the world to address the scale and urgency of the climate challenge we face. We must invest in climate leadership and clean growth — for the sake of our children and future generations.

The writer is Special Representative for Climate Change United Kingdom Foreign & Commonwealth Office. He will be in Kuala Lumpur today and tomorrow (May 15 & 16) and will meet with **Minister of Energy, Science, Technology, Environment and Climate Change Yeo Bee Yin** to launch the Malaysia Chapter on Climate Governance Initiative [CGI]

**If the high emission scenario continues, and without large investments in adaptation, an annual average of 234,500 Malaysians are projected to be affected by flooding due to a rise in sea levels between 2070 and 2100.**

LAMPIRAN 2  
THE SUN DAILY (SUN BIZ): MUKA SURAT 13  
TARIKH: 15 MEI 2019 (RABU)

## TNB to start fibre optics infrastructure venture this year

■ BY AMIR IMRAN HUSAIN SAFRI  
sunbiz@thesundaily.com

**KUALA LUMPUR:** Tenaga Nasional Bhd's (TNB), which has allocated RM9 billion in capital expenditure (capex) for 2019, is set to commence its fibre optics infrastructure business this year, according to president and CEO Amir Hamzah Azizan.

This comes after the successful National Fibreisation and Connectivity Plan (NFCP) pilot project in Jasin, Malacca, which was done in collaboration with the Malaysian government. The project was completed two months ahead of schedule, connecting 1,100 household with high speed broadband.

The objective of the pilot project was to showcase its fiberisation capacity and capabilities, as well as earning the right to launch at a wider scale.

For its fiber journey, the utilities group is looking at providing the large scale backbone system relating to fibre high speed broadband and not directly to the consumer.

"As a utility entity, we are familiar with running large scale backbone system and expanding out to fiber. It follows the same business model, a natural extension to our business," Amir told a press conference after TNB's AGM yesterday.

However, the group is not keen on expanding further downstream in the value chain due to the complexity issue.

With TNB's venture into fibre optic infrastructure, it will provide the network infrastructure and link to the households but the ultimate service providers would be the retail services providers (RSP) such as Astro,



From left: Amir, TNB chairman Tan Sri Leo Moggie and Nazmi at the press conference yesterday. - **BERNAMAPIX**

Time, Telekom Malaysia and others.

Despite that, Amir did not discount the possibility of TNB taking on the role of RSP in the future.

He said the group is in planning, staging and rolling out phase for the fibre business and is expected to see the first real penetration this year.

Commenting on electricity tariffs, he was non-committal whether there will a cut in the tariffs despite coal price has been on the downtrend as there is upside bias for gas price.

"Ultimately, Suruhanjaya Tenaga will take both prices into account and see what comes out from there."

On the RM9 billion capex allocated this year, some RM6 billion will be spent for its grid division and RM2.5 billion for electricity generation, while the remaining, RM500 million for renewable energy.

"The big chunk of the RM2.5 billion (for electricity generation) will be for our Jimah East power plant in Malacca and Southern Power Generation power plant in Pasir Gudang," said CFO Nazmi Othman.

**LAMPIRAN 3**  
**NEW STRAITS TIMES (NEWS / BUSINESS): MUKA SURAT 17**  
**TARIKH: 15 MEI 2019 (RABU)**

## 'New power tariff to depend on commission's next review'

**KUALA LUMPUR:** New electricity tariff will depend on the next review by the Energy Commission while coal and gas prices through the Imbalance Cost Pass-Through (ICPT) mechanism will likely be maintained, said Tenaga Nasional Bhd (TNB) chief executive officer Amir Hamzah Azizan.

"The tariff is affected by fuel prices. Ultimately, the movement of the tariff will depend on where the coal and gas prices are. Some trending of coal prices is seen but gas prices are still adjusting towards market price.

"So, there are two opposing forces at this point of time, and hopefully in the next review, the commission will take both into account and we will see what happens then.

"We believe that we will still maintain the ICPT as we see it as a fair mechanism that can induce investments back into the business," he said.

Amir said the sustainable ecosystem made possible via the Incentive-Based Regulation (IBR) framework and the ICPT mechanism implemented in the last four years had resulted in Malaysia having one of the most reliable energy networks in the region, on par with other advanced countries.

The national utility company said preparatory works were already underway to gear the company for the IBR's Third Regulatory Period (RP3)(2021-2023) and upon receiving the endorsement from its management team and approval from its board members.

The company expects the RP3 proposal to be submitted to the commission by December.

In December last year, the government gave approval for TNB to continue implementing the ICPT mechanism in the first half of this year.

LAMPIRAN 4  
UTUSAN MALAYSIA (DALAM NEGERI): MUKA SURAT 14  
TARIKH: 15 MEI 2019 (RABU)

Penduduk rayu operasi 20 kilang haram dihentikan

## Hidu asap berbulan-bulan

Oleh **ABD. RAZAK OSMAN**  
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■ SUNGAI PETANI 14 MEI

**B**AYANGKAN jika setiap hari terpaksa menghidu asap toksik. Bukan itu sahaja, malah ada penduduk yang kini sudah mengalami batuk-batuk, gatal-gatal kulit dan mata merah.

Begitu nasib penduduk di Taman Berangan, Taman Sejati, Taman Seri Wang, Taman Seri Astana, Kampung Serukam dan Kampung Pulau Tok Daud di sini sejak awal tahun ini.

Ini berikutan kewujudan kira-kira 20 buah kilang kitar semula dan memproses plastik yang didakwa beroperasi secara haram di Kawasan Perindustrian Sungai Petani di sini.

Tidak tahan dengan masalah



itu, kira-kira 200 orang penduduk di Kawasan Perindustrian Sungai Petani di sini hari ini, berkumpul secara aman bagi membuat bantahan.

Kumpulan itu turut menyerahkan nota bantahan mengenai masalah tersebut kepada Jabatan Alam Sekitar (JAS) dan Majlis Perbandaran Sungai Petani (MPSP).

Jurucakap kumpulan tersebut, Ong Kok Fook berkata, penduduk mendesak pihak berkuasa mengambil tindakan segera kerana sudah tidak tahan dengan pencemaran yang berlaku.

Katanya, penduduk juga berasa hairan bagaimana kilang yang sudah diarah menghen-

tikan operasinya oleh pihak berkuasa sebelum ini tetapi masih menjalankan aktiviti pada waktu tertentu.

"Kami mahu Sungai Petani bebas daripada sebarang pencemaran kerana jika dibiarkan boleh menyebabkan penduduk tempatan berisiko menghidap penyakit," katanya dalam satu kenyataan di sini.

Dalam pada itu, nota bantahan pencemaran dari kilang-kilang berkenaan diserahkan kepada Penolong Pegawai Kawalan Kanan JAS Cawangan Sungai Petani, Saffine Sulaiman.

Penduduk kemudian berarak dengan berjalan kaki seterusnya menyerahkan bantahan sama kepada Pengarah Bahagian Penguatkuasa MPSP, Wan Ahmad Fuad Wan Yahya di pekarangan pejabat MPSP.



**PENDUDUK** berhimpun di pekarangan Majlis Perbandaran Sungai Petani, Kedah, semalam bagi membantah kewujudan kilang-kilang kitar semula dan memproses plastik yang didakwa beroperasi secara haram. - UTUSAN/ABD. RAZAK OSMAN

LAMPIRAN 5  
BERITA HARIAN (BISNES): MUKA SURAT 25  
TARIKH: 15 MEI 2019 (RABU)

# TNB sedia belanja modal lebih rendah

➔ Peruntukan RM9.5 bilion perkemas, kembangkan perniagaan

Oleh Mohd Zaky Zainuddin  
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Tenaga Nasional Malaysia Bhd (TNB) memperuntukkan perbelanjaan modal (capex) lebih rendah tahun ini, iaitu RM9.5 bilion tahun ini bagi memperkemaskan dan mengembangkan perniagaan syarikat utiliti negara.

Ketua Pegawai Kewangannya, Nazmi Othman, berkata daripada jumlah itu, TNB akan menggunakan perbelanjaan modal berjumlah RM6 bilion untuk bahagian grid, RM2.5 bilion untuk penjana elektrik, manakala bakinya

untuk tenaga boleh diperbaharui dan meter pintar.

Katanya, peruntukan lebih rendah berbanding RM12 bilion tahun lalu juga dijangka semakin mengecil setiap tahun berikutan siapnya dua stesen janakuasa Jimah East yang dijangka beroperasi tahun ini dan Southern Power Generation (SPG) pada 2020.

"Selepas kedua-dua sumber elektrik baharu beroperasi, kami menjangkakan capex setiap tahun akan mengecil kepada RM7 bilion hingga RM8 bilion," katanya pada sidang media mesyuarat agung tahunan (AGM) TNB di Kuala Lumpur, semalam.

Yang turut hadir, Pengerusi TNB, Tan Sri Leo Moggie dan Presiden dan Ketua Pegawai Eksekutif TNB, Amir Hamzah Azizan.

Projek bernilai RM12 bilion yang diperuntukkan pada 2018 dipecahkan kepada dua unit, di mana Unit 1 loji jana kuasa arang batu Jimah East dijangka beroperasi pada Jun tahun ini, manakala Unit 2 pula pada Disember ini.

Loji jana kuasa itu dimiliki Jimah

East Power iaitu anak syarikat TNB dengan pemilikan 70 peratus.

Bagi SPG pula, projek anak syarikat 51 peratus milik TNB bernilai sekitar RM4.6 bilion itu dibiayai menerusi gabungan kewangan projek serta ekuiti di mana Sukuk Wakalah bernilai RM3.7 bilion diterbitkan pada Oktober 2017.

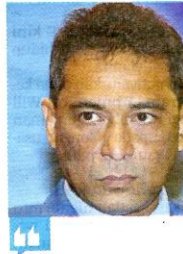
## Pembangunan gentian optik

Sementara itu, Amir Hamzah berkata, TNB akan memberi fokus kepada pembangunan gentian optik sebagai portfolio baharu dalam perniagaan syarikat utiliti negara itu.

Katanya, perniagaan gentian optik yang dilaksanakan TNB merangkumi pembangunan infrastruktur sebelum produk akhir akan ditawarkan oleh operator telekomunikasi negara.

"TNB akan memaksimumkan peluang dalam bahagian baharu menerusi keupayaan perhubungan yang dimiliki syarikat ini. Ini kerana model perniagaan utiliti dan gentian optik adalah sama.

"Kita bekerjasama dengan Suru-



Selepas kedua-dua sumber elektrik baharu beroperasi, kami menjangkakan capex setiap tahun akan mengecil kepada RM7 bilion hingga RM8 bilion"

Nazmi Othman,  
Ketua Pegawai Kewangan  
TNB

hanjaya Komunikasi dan Multimedia Malaysia (SKMM) untuk memacu industri ini ke arah lebih berdaya maju kerana kami melihat kadar penembusan gentian optik ini masih belum cukup tinggi," katanya.

Amir Hamzah berkata, TNB menjangkakan sumbangan pendapatan gentian optik bermula tahun depan memandangkan 2019 adalah tahun di mana syarikat merancang, memperkemaskan projek berkenaan sebelum dilancarkan pada akhir tahun ini.

"TNB tidak menolak untuk mengembangkan perniagaan gentian optik ke peringkat runcit berbanding borong kepada syarikat telekomunikasi ketika ini namun ia adalah proses sukar dan kompleks.

"Buat masa ini, fokus kami adalah untuk menyediakan kemudahan asas gentian optik selepas projek perintis pertama kami di Jasin, Melaka berjaya," katanya.

Projek perintis Pelan Gentian Optik dan Kesalinghubungan Negara (NFCP) di Jasin bermula tahun lalu membabitkan 1,100 kediaman.



LAMPIRAN 6  
KOSMO! (NIAGA!): MUKA SURAT 45  
TARIKH: 15 MEI 2019 (RABU)

# TNB peruntuk capex RM9.5 bilion tahun ini

**K**UALA LUMPUR – Tenaga Nasional Bhd. (TNB) memperuntukkan perbelanjaan modal (capex) berjumlah RM9.5 bilion bagi tahun kewangan berakhir 31 Disember 2019 berbanding RM12 bilion tahun sebelumnya.

Ketua Pegawai Kewangan TNB, Nazmi Othman berkata, syarikat memperuntukkan jumlah lebih kecil berikutan projek loji Jimah East Power (JEP) dijangka memulakan operasi pada tahun ini.

Menurut beliau, daripada jumlah tersebut sebanyak RM6 bilion akan dibelanjakan untuk bahagian grid manakala RM2.5 bilion lagi akan digunakan bagi penjana elektrik.

“Baki daripada kedua-dua perbelanjaan tersebut untuk tenaga boleh diperbaharui, pengembangan meter pintar termasuklah bagi jalur lebar optik fiber yang mana diunjurkan berupaya memberi sumbangan kepada kumpulan menjelang tahun hadapan.

“Sebahagian besar daripada RM2.5 bilion bagi perbelanjaan penjana elektrik telah diperuntukkan untuk loji JEP di Melaka dan Southern Power Generation di Pasir Gudang, Johor yang dijangka beroperasi menjelang 2020,” katanya.

Beliau berkata demikian pada sidang akhbar selepas Mesyuarat Agung



LEO MOGGIE (tengah) bersama Amir Hamzah (kiri) dan Nazmi menunjukkan Laporan Tahunan Bersepadu TNB selepas AGM TNB di MITEC, Kuala Lumpur semalam.

Tahunan (AGM) TNB di Pusat Pameran dan Dagangan Antarabangsa Malaysia di sini semalam.

Turut hadir Pengerusi TNB, Tan Sri Leo Moggie serta Presiden dan Ketua Pegawai Eksekutif TNB, Amir Hamzah Azizan.

Sementara itu, Amir Hamzah ketika

diminta mengulas mengenai kenaikan bersih tarif elektrik berkata, ia hanya akan dapat diputuskan selepas kajian dilakukan.

“Pada masa yang sama, TNB akan terus melaksanakan mekanisme Ketidakeimbangan Pelepasan Kos Bahan Api,” katanya.

LAMPIRAN 7  
THE STAR (STAR BIZ): MUKA SURAT 1 & 2  
TARIKH: 15 MEI 2019 (RABU)



Results review: (from left) Amir, TNB chairman Tan Sri Leo Moggie and Nazmi at the media briefing. — Bernama

# New income stream for TNB

Group to benefit from fibre optic rollout starting next year

By CECILIA KOK  
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**KUALA LUMPUR:** Utility giant Tenaga Nasional Bhd (TNB) is expected to see earnings contribution from the National Fibreisation and Connectivity Plan (NFCP) beginning next year.

According to its newly appointed president and CEO Amir Hamzah Azizan, the energy group is currently in the phase of exploring com-

mercially viable penetration for its fibreisation and connectivity business nationwide.

This followed the recent success of the NFCP pilot project in Jasin, Melaka.

The high-speed broadband pilot project was meant to allow TNB to assess the commercial viability for it to embark on possible larger-scale NFCP participation nationwide.

"We are now looking at the

expansion of our fibreisation journey to anywhere that is commercially viable; and we expect to see the first commercially viable rollout sometime this year," Amir told a press conference after the company's AGM.

He said earnings should start coming in from the new business starting financial year ending Dec 31, 2020.

He also noted that the recurrent earnings from TNB's fibre business

would be similar to the model of the group's utility business.

Under the new business, TNB will offer its fibre optic network to Internet service providers such as Telekom Malaysia Bhd, Astro Malaysia Holdings Bhd, Celcom Axiata Bhd, Digi.Com Bhd, Maxis Bhd and Time dotCom Bhd to enable them to provide high-speed broadband services to end-users.

> TURN TO PAGE 2

## TNB to allocate RM9bil to RM9.5bil for capex

> FROM PAGE 1

"Our shareholders believe this business would be a good addition to the group's existing portfolio," Amir said.

Amir took over the helm of TNB on April 2 this year after the resignation of Datuk Seri Azman Mohd as the group's president and CEO on March 31.

On whether TNB was eyeing new assets to grow its business, Amir said all acquisitions by the group would be viewed on an opportunistic basis.

"TNB continues to look at opportunities to grow its portfolio. When the opportunities come up and are viable to the entity, we would take it to the next stage," he said, adding that the group was currently focused on driving growth of renewable energy.

Meanwhile, TNB chief financial

officer Nazmi Othman said the group would allocate RM9bil to RM9.5bil as capital expenditure (capex) for 2019.

Of the total capex, he said, RM6bil would be used for its grid division and RM2.5bil for its power-generation division, while the remainder would be used for renewable energy and smart-metering expansion.

"A big chunk of the RM2.5bil for power generation would be allocated for our Jimah East power plant in Melaka and the Southern Power Generation (SPG) Pasir Gudang plant," Nazmi said.

Last year, TNB spent RM12bil on capex.

TNB's group revenue grew 6.3% year-on-year (y-o-y) to RM50.39bil in 2018, driven mainly by higher electricity demand, which peaked in August 2018 at 18,338 megawatts, a rise of 3.1% y-o-y.

Net profit, however, was lower at RM3.75bil last year, compared with RM6.91bil in 2017, mainly due to regulatory adjustment as a result of regulatory changes in the Second Regulatory Period (2018-2020), impairment and foreign exchange (forex) translation.

Going forward, Amir said, the bulk of impairments due to overseas investments had already been incurred last year.

As for forex management, the group would continue to look at means to hedge against fluctuations and explore other forms of mitigation against volatility, he said.

Amir said TNB was working closely with its business partners overseas to ensure that their assets remained on a "good footing".

This particularly applies to the group's presence in volatile markets such as Turkey, where it has a 30% stake in GAMA Enerji; India,

where it has a 30% stake in GMR Energy; and Pakistan, where it operates as an independent power producer.

"Turkey has had some economic and financial challenges of late but we see a good future in the long term because electricity demand in the country is expected to rise.

"And if you look at the portfolio that we have in GAMA, the assets are pretty good in terms of the quality of the generation plants, and the water concession in Jordan.

"The key challenge that we have is to manage through the current cycle (in Turkey)," Amir said.

As for India, he said, the country has always had good potential for growth.

"It's one of the developing countries that continues to intensify utilisation of electricity; but there are regulatory challenges that we need to manage," Amir said.



LAMPIRAN 8  
 UTUSAN MALAYSIA (BISNES): MUKA SURAT 36  
 TARIKH: 15 MEI 2019 (RABU)

# Perbelanjaan modal TNB RM9.5 bilion

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■ KUALA LUMPUR 14 MEI

**T**ENAGA Nasional Bhd. (TNB) memperuntukkan perbelanjaan modal (*capex*) kira-kira RM9.5 bilion pada tahun ini berbanding RM12 bilion pada tahun lalu.

Presiden dan Ketua Pegawai Eksekutifnya, Amir Hamzah Azizan berkata, peruntukan lebih kecil itu berikutan projek loji Jimah East Power (JEP) dijangka memulakan operasi pada tahun ini.

Katanya, sebanyak RM6 bilion diperuntukkan bagi segmen grid dan RM2.5 bilion bagi penjanaan.

"Segmen penjanaan meliputi loji janakuasa Southern Power Generation di Pasir Gudang, Johor yang dijangka beroperasi pada 2020 dan Projek Solar Berskala Besar (LSS) di Bukit Selambau, Kedah.

"Baki *capex* diperuntukkan bagi

jalur lebar optik fiber yang mana diunjurkan berupaya memberi sumbangan kepada kumpulan menjelang tahun hadapan," katanya selepas Mesyuarat Agung Tahunan (AGM) TNB di sini hari ini.

Yang turut hadir, Pengerusi TNB, Tan Sri Leo Moggie dan Ketua Pegawai Kewangan TNB, Nazmi Othman.

Mengulas tentang operasi perniagaan di luar negara, Amir berkata, meskipun TNB berdepan beberapa cabaran di Gamma, Turki, negara itu mempunyai masa depan yang baik dengan permintaan elektrik meningkat.

Jelas beliau, begitu juga India yang mempunyai potensi pertumbuhan baik bagi projek hidro.

Ditanya mengenai kemungkinan kenaikan bersih tarif elektrik, beliau berkata, ia hanya akan dapat diputuskan selepas kajian dilakukan.

"Dalam masa sama, TNB akan terus melaksanakan mekanisme sedia ada," katanya.



LEO MOGGIE (tengah) bersama Amir Hamzah Azizan (kiri) dan Nazmi Othman menunjukkan Laporan Tahunan Bersepadu TNB pada sidang media selepas Mesyuarat Agung Tahunan TNB ke-29 di Kuala Lumpur, semalam.  
 - UTUSAN/ ABDUL NAZIR MOHAMED



LAMPIRAN 9  
NEW STRAITS TIMES (NEWS / BUSINESS): MUKA SURAT 17  
TARIKH: 15 MEI 2019 (RABU)

ANNUAL GENERAL MEETING

# TNB SETS ASIDE RM9.5B FOR CAPEX

RM6b of allocation will be used for grid division and the rest for generation, renewable energy and smart meters

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**T**ENAGA Nasional Bhd (TNB) has allocated between RM9 billion and RM9.5 billion in capital expenditure (capex) this year for its grid and core generation businesses as well as renewable energy and smart meters.

Chief financial officer Nazmi Othman said from the total capex, the biggest chunk of it, or RM6 billion, would be spent on the grid division while RM2.5 billion would be allocated for the generation segment.

The generation division will cater to the Jimah East Power Plant and Southern Power Generation Pasir Gudang Plant.

The balance of capex will be used for renewable energy and smart metering.

"Next year, we expect a better capex allocation for smart metering after the company has properly expanded the system,"

said Nazmi at a press conference after the company's annual general meeting, here, yesterday.

Meanwhile, on the National Fibreisation and Connectivity Plan (NFCP) project that TNB was currently working on, chief executive officer Amir Hamzah Azizan said the utility group expected earnings from next year as the pilot project had been completed in Jasin, Melaka.

He said TNB would begin implementing the NFCP project in the Klang Valley but did not specifically mention a timeline.

"The pilot project in Melaka was started last year to prove the point and we are now looking at commercially viable penetration based on our current customer base and our expectation is to see positive results some time this year.

"It is still at its early days and we expect to see some pick-up in the numbers from next year. For this year, it will be about planning, staging and rolling it out by the end of this year," he added.



(From left) Tenaga Nasional Bhd (TNB) chief executive officer Amir Hamzah Azizan, chairman Tan Sri Leo Moggie and chief financial officer Nazmi Othman at the group's annual general meeting in Kuala Lumpur yesterday. PIC BY SALHANI IBRAHIM

**LAMPIRAN 10**  
**NEW STRAITS TIMES (NEWS / BUSINESS): MUKA SURAT 17**  
**TARIKH: 15 MEI 2019 (RABU)**

## Group sees potential in 3 countries

**KUALA LUMPUR:** Tenaga Nasional Bhd (TNB) has not made decisions on its investments in Turkey, Pakistan and India as the group still sees potential in the three markets.

Currently, the national utility company is focusing on strengthening its position in the countries.

"Last year, we faced impairment challenges and TNB took a very serious look at the conditions of the investments and (had) taken a prudent position... We have probably taken the bulk of the impairments.

"In terms of foreign exchange (forex), we will continue to look at means to hedge, if possible, and other forms of mitigation.

"The management has also been working hard to ensure the business models in those countries are on a good footing, and work is ongoing with business partners in those areas," said TNB chief executive officer Amir Hamzah Azizan in a press con-

ference after the group's annual general meeting, here, yesterday.

On its investment in Turkey, Amir said despite some financial challenges, TNB continued to see good long-term potential in the asset.

"Electricity demand in Turkey is expected to rise and if you look at the portfolio that we have in Turkish-based Gama Enerji AS, the asset is good in terms of generation plant quality and water concession compared with the one in Jordan."

It was previously reported that Gama Holding, Gama Enerji's major shareholder, had been looking to restructure US\$1 billion (RM4.17 billion) worth of debt while Gama Enerji was looking to refinance a US\$500 million loan it took to construct a gas power plant in 2013.

Meanwhile, on India, Amir said its investment there had shown good growth potential and it would continue to intensify electricity use in the country.

"For Pakistan, it is part and parcel of the normal portfolio review that we carry out from time to time," he said.

On whether TNB was looking to dispose of these assets in the future, Amir said strengthening the businesses would be the group's ultimate focus for now.

In February, TNB reported its first quarterly loss after recording higher operating cost and increased impairments for more than seven years.

Net loss in the three months ended December 31, 2018 was RM134 million while operating profit fell to RM697 million.

It was, however, learnt that TNB is looking for buyers for the entities, although no firm negotiations are underway yet.

This is said to be part of the review the national utility group has carried out to mitigate the impact of its international businesses, which had led to the RM2.42 billion impairments last year.

LAMPIRAN 11  
BERITA HARIAN (SENTRAL): MUKA SURAT 69  
TARIKH: 15 MEI 2019 (RABU)

## Rumah rosak kampung dilanda ribut sebelum berbuka

[FOTO ABNOR HAMIZAM/BH]



**Keadaan rumah penduduk dilanda** angin kencang dan ribut di FELDA Lui Barat, Jempol, kelmarin.

**Jempol:** Lapan rumah dan lima kedai rosak, manakala tujuh pokok durian Musang King yang sedang berbuah dan dijangka matang sebulan lagi, tumbang dilanda ribut di FELDA Lui Barat di sini, petang kelmarin.

Kejadian pada jam 5 petang itu berlaku, ketika penduduk membuat persiapan berbuka puasa.

Penduduk, Md Yazid Jamaludin, 64, berkata ketika kejadian dia sedang berehat di ruang tamu rumah, manakala isterinya sedang memasak di dapur.

Katanya, 30 minit selepas hujan lebat angin kuat melanda, menyebabkan atap bahagian dapur dan sebahagian bilik tidur terbang.

"Deruan angin sangat menakutkan dan tidak sangka, sehingga menerbangkan atap rumah," katanya yang mendakwa mengalami kerugian RM10,000.

Penduduk lain, Abd Hafidz Abd Malek, 49, berkata kejadian itu turut menyebabkan tiga pokok dokong dan tujuh durian miliknya tumbang.

Katanya, pokok durian jenis Musang King itu sedang berbuah

dan dijangka matang dalam tempoh sebulan.

"Angin terlalu kuat petang semalam (kelmarin), menyebabkan pokok durian tumbang," katanya.

### Nilai kos baik pulih

Sementara itu, Penyelaras Dewan Undangan Negeri (DUN) Sungai Lui, Zainal Fikri Abd Kadir, berkata kerosakan lapan rumah penduduk akan dinilai oleh agensi berkaitan, bagi proses baik pulih.

Beliau berkata, pihaknya juga sudah memaklumkan kejadian berkenaan kepada Majlis Daerah Jempol dan pejabat Menteri Besar, Datuk Seri Aminuddin Harun, manakala Jabatan Kebajikan Masyarakat (JKM) turun padang bagi membantu penduduk.

"Ketika ini, penilaian kerosakan sedang dijalankan bagi mengenal pasti kerosakan dan jumlah kerugian, sebelum diserahkan kepada kerajaan negeri.

"Kita berharap kerajaan tampil membantu penduduk, termasuk menggunakan dana dari tabung bantuan bencana alam kerajaan negeri," katanya.

LAMPIRAN 12  
SINAR HARIAN (GLOBAL): MUKA SURAT 47  
TARIKH: 15 MEI 2019 (RABU)

## ***Bulan terus mengecut ekoran aktiviti seismik***

WASHINGTON - Menurut analisis imej yang dirakam kapal angkasa robotik *Lunar Reconnaissance Orbiter (LRO)* milik Agensi Pentadbiran Angkasa dan Aeronautik Kebangsaan (NASA) yang diterbitkan kelmarin, bulan dikatakan terus mengecut dan menyebabkan 'kedutan' di permukaannya.

Kajian terhadap lebih 12,000 imej mendedahkan lembangan Mare Frigoris terletak berhampiran kutub utara bulan telah retak dan mula beralih.

Aktiviti tektonik di bulan terjadi secara perlahan akibat kehilangan haba sejak ia terbentuk kira-kira 4.5 bilion tahun lalu yang menyebabkan permukaannya 'berkedut'.

Disebabkan keadaan kerak



FOTO: AFP

Imej dirakam NASA menunjukkan permukaan baharu di bulan.

bulan yang rapuh, tekanan mengakibatkan permukaannya pecah dan bahagian dalamnya mengecut, hasilnya bulan dikatakan telah menyusut kira-kira 50 meter dalam masa beberapa juta tahun. - AFP

LAMPIRAN 13  
UTUSAN MALAYSIA (LUAR NEGARA): MUKA SURAT 42  
TARIKH: 15 MEI 2019 (RABU)

## Paras karbon dioksida tertinggi direkodkan

**WASHINGTON 14 Mei** - Paras karbon dioksida (CO<sub>2</sub>) yang merosakkan gas rumah hijau mencapai paras baharu membimbangkan sebagaimana direkodkan oleh stesen peman-tauan tertua di dunia dekat Hawaii, baru-baru ini.

Lapor *Independent.co.uk*, Mauna Loa Observatory (Mauna Loa) yang mengukur bahagian per juta (ppm) karbon dioksida dalam atmosfera sejak 1958 mendapati, bacaan 415.26 ppm pada 11 Mei lalu dipercayai tertinggi sejak evolusi manusia.

Ahli meteorologi, Eric Holt-house kemudiannya twit semula bacaan Mauna Loa itu dan menyifatkan, ini adalah pertama kali dalam sejarah manusia atmosfera bumi mencatatkan lebih 415 ppm karbon dioksida.

“Bukan hanya rekod sejarah, bukan hanya sejak penciptaan agrikultur 10,000 tahun lalu dan sebelum manusia moden wujud jutaan tahun dahulu.

Kita tidak tahu planet seperti ini,” katanya.

*Scripps Institution of Oceanography* mengukur paras karbon dioksida di gunung berapi Mauna Loa secara harian selepas kawasan itu terletak jauh daripada pencemaran yang dapat menjejaskan bacaannya.

Bacaan pada 1958 menunjukkan kepekatan karbon dioksida adalah 313 ppm dan bacaan itu pada Mei 2013 menunjukkan peningkatan kepada 400 ppm akibat aktiviti manusia.

Sementara itu, Pengarah Program Scripps CO<sub>2</sub>, Ralph Keeling berkata, peratusan kadar perkembangan karbon dioksida kekal tinggi.

“Peningkatan dari tahun lalu berkemungkinan sekitar 3 ppm yang mana purata terkini sebanyak 2.5 ppm.

“Kemungkinan kita melihat kesan keadaan *El Nino* sederhana selain daripada penggunaan bahan api fosil ketika ini,” ujarnya. - AGENSI



BAHAN api fosil kekal menjadi pengeluar terbesar gas karbon dioksida. - AGENSI





LAMPIRAN 14  
KOSMO! (DUNIA): MUKA SURAT 43  
TARIKH: 15 MEI 2019 (RABU)

Jasad angkasa tersebut hilang haba sejak 4.5 bilion tahun lalu

# Bulan menjadi semakin kecil

**WASHINGTON** - Bulan makin mengecil dan mengakibatkan kedutan serta gempa pada permukaannya, demikian menurut analisis gambar yang dirakam kapal angkasa Pengorbit Peninjau Bulan (LRO) milik Pentadbiran Aeronautik dan Angkasa Lepas Kebangsaan (NASA) yang disiarkan kelmarin.

Kajian terhadap lebih 12,000 imej mendapati lembangan di kutub utara Bulan yang dinamakan Mare Frigoris telah merekah dan berubah.

Tidak seperti Bumi, Bulan tidak mempunyai plat tektonik. Sebaliknya, aktiviti tektonik berlaku semasa Bulan beransur-ansur hilang haba yang terkandung ketika ia terbentuk sekitar 4.5 bilion tahun lalu.



IMEJ yang dikeluarkan NASA kelmarin menunjukkan permukaan bulan yang berkedut di kawasan Mare Frigoris.

Fenomena itu menyebabkan permukaannya 'berkedut' seperti buah anggur yang mengecut menjadi kismis.

Ia mengakibatkan Bulan menjadi lebih kecil sebanyak 50 meter sejak ratusan juta tahun lalu.

Angkasawan-angkawannya. Analisis itu yang disiarkan dalam jurnal *Nature Geoscience*, mengkaji gempa cetek pada permukaan Bulan yang direkodkan oleh misi kapal angkasa Apollo.

"Berkemungkinan be-



BULAN dikatakan mengecil dan berkedut di kawasan dipanggil Mare Frigoris (garisan berwarna biru).

sar aktiviti gelongsoran ini masih aktif hingga hari ini," kata Nicholas Schmerr yang merupakan

seorang profesor madya di Universiti Maryland merangkap penulis bersama kajian itu. - AFP