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## 08 APR. 2024



Illuminating Malaysia with cutting-edge solar solutions



The Malaysian Reserve, Malaysia

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## by AKMAR ANNUAR & NURUL NAJMIN ABU BAKAR

MALAYSIA'S solar energy players such as GSPARX Sdn Bhd, Verdant Solar Sdn Bhd and Sols Energy Sdn Bhd, among others, are driving the nation's shift towards renewable

sources. These industry leaders harness cutting-edge technologies and sustainable approaches to provide a wide range of solar solutions cater-ing to residential, commercial and industrial needs.

CSPARX CSPARX San thild stands at the forefront of Malaysia's solar energy industry, leveraging innovative technologies and sustainable prac-tices to provide comprehensive solar solutions for various clients. It secured 340MWp of roofiop solar photo-voltaises (PV) systems in five years. Beyond installation, his investment model gives it a subset edge.

The second secon

ard. GSPARX focuses on innovation with Battery Energy Storage Systems (BESS) and Compressed Energy Storage Systems (CBSS) "We aim to increase solar adoption, and support net zero emissions by 2050 by merg-ing business strategies with sustainability, offering renewable solutions, investing in roofhor solar, and promoting greener policies aligned with governmental net zero targets," he added.

highed with operformation in every angels, be limit, said GSPARY's success with the 77MW AEON chain project showcases its excellence and innovation in solar energy, driven by technical expertise, innovative project management, strong industry part-nerships, and a client-focused approach. He remarked that this project also demon-strates GSPARY's ability to deliver value and advance renewable solutions, and that the company has successfully invested in 40MW peak (MWP) obsolar W systems in universities and educational institutions.

Not Construct Solar Verdant Solar Solar Bha basen recognised by the Malaysian Book of Kecords as the country's largest residential solar provider, doubling its previous record in 2022, by serving over 1,300 homes in 2023. With over 2,300 landed properties under its belt, its installations surpassing 9958,9844 have saved RM12 million in detricity bills and avoided 12,645 tonnes of CO2 in 2023 alone. alo

and avoided 12,645 tonnes of COS in 2023 alone. This solidifies Verdant Solar's position as one of the top providers for residential sustain-able energy solutions, furthering the country's transition towards renewable energy (RE). This CEO Zeth Lim highlighted the impor-tance of Verdant Solar's focus on customer experience is evident through its corporate social responsibility (CSR) initiatives and the introduction of the Verdant Home App. This app, available on the App Store and Google Store, not only facilitates payments and earnings recording for existing customer sput also serves as an educational tool on RE resources, net energy metering (NEM)

van made history to power an entire highway operation under the Net Energy ing scheme



# Illuminating Malaysia with cutting-edge solar solutions

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policy, and solar energy. Lim commended Malaysia's progress in aligning with global trends, particularly in battery systems and carbon trading. "RE investors have the potential to reduce carbon emissions and participate in carbon trading platforms like the upcoming Bursa Carbon Exchange (BCX). "However, there is a need for further advancements in Malaysia's tariff structure to remain competitive with first-world coun-tries," he said to TMR. Despite the challenges, Lim affirmed the company's declarion to doubling installation numbers this year.

Ditrolic Energy Ditrolic inergy Sdn Bld has established itself as a prominent player in Malaysia's solar energy landscape. Its groop CDO Tham Chee Aun said Ditrolic Energy has been serving as a leading solar engineering, procurement, construction and commissioning (EPCC) company since 2009 and pioneering the Malaysian solar leasing programmes with their SunLease initiative in 2018.

non-magnetic sectors in a sector of the sector of the sectors alignetic sectors including critical infrastructure like alignetic where we offer clean energy solution to six alignetic across South-East Asia, oper at solar systems producing 18MW for Malay sian universities, and supply solar electricit



Source Direct Energy has been erving as a leading solar EPCC company nee 2009

to 16 hospitals, establishing Ditrolic Energy as one of the leading solar energy providers for airports, universities, and healthcare in the country, he told TMR. He added that the company is a recognised regional player in RE, operating in Malaysia, Singapore, the Philippines, Indonesia, China and Bangladesh, with its diversified market approach enabling them to navigate diffe-ent regulatory environments and market dynamics.

ent regulatory environments and market dynamics. It is a preferred choice for solar installations nationwide. It is a preferred choice for solar installations nationwide. It is a preferred choice for solar installations nationwide. It is a preferred choice for solar installations nationwide. It is a preferred choice for solar installations nationwide. It is a preferred choice for solar installations nationwide. It is a preferred choice for solar installations nationwide. It is a preferred choice for solar installations nationwide. It is a preferred choice for solar installations nationwide. It is a preferred choice for solar installations nationwide. It is a preferred choice for solar installations nationwide. It is a preferred choice for solar installations nationwide. It is a preferred choice for solar installations nationwide. It is a preferred choice for solar installations nationwide. It is a preferred choice for solar installations nationwide. It is a preferred choice for solar installations nationwide. It is a preferred choice for solar installations nationwide. It is a preferred choice for solar installations nationwide. It is a preferred choice for solar installations nationwide. It is a preferred mounted and projects, making it the biggers telean energy solar. It is solar energy solar in the nation. It is a solar energy solar solar Wer in the nation. It is a preferred in a prosent, solar Wer in the nation. It is a solar energy solar solar Wer in the solar solar energy solar. A difficult in the solar energy solar. A difficult in the for the solar solar energy solar. The prest is solar energy solar energy in the nation. It is the devel-ment of innovative solar solarons in thores the devel-ment of innovative solar solarons in the solar energy solar. The prest is solar energy solar. The prest is solar energy solar.

We believe in controlling the entire process to provide the highest quality service and experience, says Raj

ing trust in its strategy and growth potential in Malaysia and beyond.

Solarvest Solarvest Holdings Bhd's strength lies in tech-nical proficiency, employing experienced engi-neers, technicians, and project managers. Its focus on technical exectlence, sustain-ability, and customer satisfaction positions it as a preferred choice for solar installations nationwide. Solarvest ED and Group CED Davis Chomg

entiation through their full-fledged solar PV development services, offering a vertically integrated solution covering the entire solar PV value chain. "This one-stop-shop approach stream-tines the process for clients, providing a seamless experience with a single point of contact throughout the project lifecycle," he explained.

contact throughout the project lifecycle'. The explained. In addition to traditional installations, Solarvest ventures into other clean energy solutions to diversify revenue streams, including green bydrogen, green battery sto-rest solutions to diversify revenue streams, "Or integration of innovitive technolo-gies such as Artificial Intelligence of Things (AlGT) optimises operational performance, ensuring maximum system output and dient returm on investment," he added. To address the challenge of upfront capital expenditure, Solarvest developed Powervest, an innovative financing programme offer-ing flexible options tailored to diverse client needs.

ing dicuble options tailored to diverse client receds. This programme has been introduced to hadonesia, the Philippines and Victama, with a presence established in Singapore and thailand. Also, partnerships have been formed to develop projects in Taiwan and firunel. Reflecting on Solarvest's notable achieve-ments, Chong said Solarvest holds the distinction of being the first publicly listed solar company in Malaysia with the largest control and the solar farm in Deng-stil, earning a place in the Malaysia's first it, earning a place in the Malaysia book of zecords, 'he said.

Records," he said. Hasilwan (M) Sdn Bhd has been a key player in Malaysia's solar energy sector since the inception of the RF act in 2012. The SCO Yong Sien Wae said the company has covbed significantly over the years. We started as an energy performance contractor for high rise buildings and progressed to rooftop solar PV projects in the commercial and industrial segments. Today, we have the unique experience and capability to design, construct, develop systems for various industries and utilities," he told *TMR*. Established in 1989, as a family-run busi-

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Source: Detroic Energy Sdn Bi nance has 3 Malaysia Solar Power Company of The Yea Ditrolic Energy's consistent perfor titles from Frost & Sullivan



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SOLS Energy SOLS Energy sin Bhd is a Malaysian solar energy company dedicated to provide affordable and sustainable energy solutions to communities across the country. With a focus on social impact and environ-mental sustainability, SOLS Energy empow-rs individuals and organisations to harness the power of the sun and contribute to a cleaner, greener future.

BESS

GSPARX focuses on innovation with BESS and CESS, asys Elmie swift installation times, optimised through extensive experience and specialised training. By recruiting solar technicians from indigenous communities and providing comprehensive training, SOLS Energy not only delivers top-notch installations build also creates opportunities for marginalised groups in the RE sector. One of SOLS Energy's mission pillars is "Power to Empower". For every homeowner who puts a solar PV system in their home, SOLS Energy will instal a Pice Solar Lighting system in an Orang Asli or Orang Asal home. To date over 2,000 Orang Asli home-owners have been empowered. In response to market changes, SOLS Energy recently introduced the home solar subscription model. This innovative approach allows users to adopt solar without upfront costs, paying only a portion of their energy bill savings to SOLS Energy, 'he said, adding that this model bypasses concerns about solar commodifi-cation, ensuring quality and accountability while fostering longer customer relation-ships. SOLS Energy's mission centres on a just

while fostering tonget ships. SOLS Energy's mission centres on a just energy transition, with a focus on diversity and inclusion. With 40% of the team comprising indi-genous people, the company exemplifies its commitment to a more inclusive RE economy.

Supported by investors like 500 Global and Petronas Twin Towers Ventures, SOLS Energy continues to innovate and expand its offer-ings, including partnerships with trusted brands like Aeon to make solar more accessible to consumers.

ERS FRS (engineering, procurement and construc-tion services) Energy provides comprehen-sive ERS services for solar energy projects in Malaysia. With a proven track record of delivering high-quality, cost-effective solutions, ERS plays a vital role in advancing the country's EE infrastructure and promoting sustainable development. The power of the sun and contribute to a bit power of the sun and contribute to a cleaner, greener future.
One of SOLS Energy's core strengths lies in its community-centric approach to solar energy deployment.
Founder and CEO Raj Ridvan Singh discussed SOLS Energy's mouting expositions.
This approach involves guiding users through the solar journey, from education on its benefits to customisation, installation, and ongoing maintenance.
We believe in controlling the entrity process to growide the higher quality screet, solar benefits to customisation, installation, and experience," he said to TMR.
SOLS Energy's expertise is evident in its

tions for diverse market sectors, supported by a seasoned development team that has successfully assisted in launching projects from seratch.

from scratch. "In addition to serving as a solar PV engi-neering, procurement, construction and commissioning (EPCC) and co-development collaborator for numerous industry partners, ERS possesses distinctive expertise in the Asean reviou

ERS possesses distinctive expertise in the Ascan region. "We have successfully implemented and completed large-scale utility projects in the Philippines and Vietnam, and are expanding our footprint in Indonesia and Australia," she told *TMR*.

our toopfirm in theoretica and Australia, she told TMR. She added that ERS employs advanced solar technologies and utilises ESG-com-pliant top-tier equipment to ensure their projects align with the stringent expectations and requirements of stakeholders, banks, investors and engineers, while also actively advocating for sustainability and environ-mental stewardship in its operations. "ERS Energy has attained an installed capacity exceeding 1GWp through over 1,000 solar PV projects spanning residential, commercial and large-scale utilities across Asean," she said. Commenting on notable achievement by

Commenting on notable actives the company, she noted that ERS has recently finalised its inaugural floating solar plant in Rawang, which stands as the largest in Malay-sia in which the milestones underscore the company's dedication to delivering quality projects as a comprehensive solar energy solutions provider.

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Plus Xnergy Plus Xnergy, formerly known as Plus Solar, has spearheaded the installation of PV solar panels in over 700 buildings across vari-ous sectors. With an impressive project track record exceeding 125MVp, Plus Xnergy has contrib-uted to reducing the nation's carbon foot-print by an estimated 107,570 tonnes of carbon dioxide annually. Among its notable installations are in prominent commercial establishments such as 101 Acidchem, Asadi, Mah Sing Plastics, spritter factories and Toppen and IKEA Batu Kawan shopping malls.

Engle Engle Group, a prominent Fortune 500 entity in low-carbon energy and services, has a mission to curb energy consumption and offer eco-friendly solutions that balance engemente recourse with mechanic reclared

offer eco-friendly solutions that balance economic prosperity with positive societal and environmental impacts. With an extensive track record, it has facilitated over 130MW of large-scale solar projects in Malaysia, collaborating closely with both public and private sectors, Engie finances, owns, constructs and operates solar assets, exemplified by its solar-as-a-service rooftop installations. Essentially, the collective efforts of these top 10 homegrown solar companies in Malay-sia represent a significant step towards build-ing a more sustainable and resilient energy infrastructure.