



PRESS RELEASE

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TNB'S LSS SEPANG SHOWS CONSISTENT OPERATIONAL PERFORMANCE FOR 2 STRAIGHT YEARS

Tenaga Nasional Berhad's (TNB) maiden large scale solar (LSS) farm in Sepang exceeds its maximum annual energy declared for two consecutive years through smart plant management combined with the adoption of artificial intelligence and data analytics technologies.

For its first operational year in 2019, the solar power plant surpassed its maximum annual energy declared to the off-taker (TNB) by 6% or at more than 110,000 megawatt-hours (MWh).

This commendable operational performance was replicated in 2020, with the solar farm generating 108,900 MWh or 5% more than declared.

"We are able to optimise this solar farm's operation by leveraging on data analytics and monitoring technologies," said TNB Renewables Sdn Bhd (TRe) Managing Director, Mohd Yusrizal Mohd Yusof. TRe is a wholly-owned subsidiary of TNB.

He explained that among others, the technologies used have allowed TNB to calculate the best timing to wash the solar panels based on output levels and weather forecast.

"By utilising the latest analytics tool (Wash optimisation), we can save up to RM160,000 of operation cost annually," he said during a visit by TNB Board of directors, Dato' Ir. Nawawi Ahmad and Datuk N. Rawisandran to the solar farm last week.

"TRe is committed to adopting innovative solutions in building up TNB's capability towards becoming a leading RE asset developer and asset manager within Malaysia and the region," added Yusrizal.

Located at Mukim Tanjung 12, Kuala Langat, Selangor, the 50 Megawatt (MW) solar farm is equipped with 238,140 solar photovoltaic panels.

The solar farm, which began commercial operation in November 2018, and managed by TRe has contributed to TRe winning the Frost & Sullivan’s Best Practices Awards for 2020 Malaysia Renewable Energy Developer of the Year.

Impressed by the LSS’s performance, Nawawi said the plant reflects TNB’s strength in developing and running successful solar farm projects in Malaysia.

Besides LSS Sepang, TRe also developed LSS Bukit Selambau in Sungai Petani, Kedah. The latter started its commercial operation on 8 September 2020, 114 days ahead of schedule. The 30 MW plant is equipped with 134,880 solar photovoltaic panels.

“With the experience gained so far, I hope TNB can continue expanding the growth of RE in the country through the developments of more solar farms,” said Nawawi.

Datuk N. Rawisandran meanwhile noted that the latest technological solutions employed at the solar farm have enabled TNB to maximise the plant’s “efficiency and generate more clean power to the national grid.”

Both LSS Sepang and LSS Bukit Selambau were awarded by the Ministry of Energy, Green Technology and Water (KeTTHA) (now Ministry of Energy and Natural Resources - KETSA) through the Energy Commission, via the LSS competitive bidding exercise program 1 and program 2 respectively.

TNB is one of the 30 companies shortlisted by Energy Commission (EC) to bid for the development of the fourth large-scale solar (LSS4)@MEnTARI.

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About Tenaga Nasional Berhad

Tenaga Nasional Berhad is a leading Malaysian utility company in Asia with an international presence in United Kingdom, Kuwait, Turkey, Saudi Arabia, Pakistan, India and Indonesia. It aspires to be a leading provider of sustainable energy solutions in Malaysia and internationally. Under the Group's sustainability commitment, TNB targets its RE generation capacity at 8.3 GW by 2025. The group has pledged to stop investing in greenfield coal plants and aims to cap revenue from coal generation plants at 25%.

Within the renewable energy space, TNB has a total portfolio of 2,732.3MW in Malaysia (including 2,536.1MW of large hydro) and 666MW across the UK, Turkey and India comprising mainly solar, wind and hydro energy generation assets.

TNB's core activities are in the generation, transmission, and distribution of electricity. In addition to being the nation's primary electricity generation enterprise, TNB also transmits and distributes all the electricity in Peninsular Malaysia, Sabah and Federal Territory of Labuan. As at 30 September 2020, TNB supplies electricity to approximately 10 million customers.

TNB, through its subsidiaries, is also involved in the manufacturing of transformers, high voltage switchgears and cables; the provider of professional consultancy services, construction and operating and maintenance of district cooling facilities, generation equipment, repair and maintenance, fuel supply services; services related to renewable energy, energy efficiency and power quality; higher education and skill training and undertakes research and development.



Tenaga Nasional Berhad (TNB) Board members Dato' Ir. Nawawi Ahmad (left) and Datuk N. Rawisandran taking a close look at the solar photovoltaic panels at the large scale solar (LSS) farm in Sepang during a visit on 18 March 2021.



Tenaga Renewables Sdn Bhd (TRe) Chief Operating Officer, Khirul Nizam Shamsudin (right) briefing TNB Board Board members Dato' Ir. Nawawi Ahmad (fourth from right) and Datuk N. Rawisandran (second from right) on the performance of the Sepang large scale solar (LSS) farm at its solar control room during a visit on 18 March 2021.