

Headline	Malaysia`s Solar Farms Illuminate path to RE Future		
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# Malaysia's Solar Farms Illuminate Path to RE Future

### Johor Green Deal

**Energy**

**E1:** Implement a percentage RE rule for all new commercial and residential buildings in Johor.

**E2:** Integrate solar energy into state government buildings, to strengthen the governments position as a leader in the widespread adoption of RE.

**E3:** Build an enabling environment tin economic zones and hub located in Johor to create a green innovation centre for the state.

**E4:** Attract investments in solar PV technology to grow Large-Scale Solar ("LSS") energy projects in Johor.

**E5:** Drive energy efficiency efforts across the commercial and industrial sectors through data analytics and implementation of energy saving measures.

**Industry**

**I1:** Accelerate the integration of the circular economy, with a focus on reducing the production and management of waste.

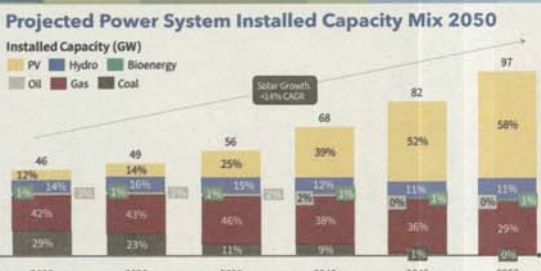
**I2:** Provide incentives for companies to integrate solar thermal energy in their production processes to increase the share of RE.

**I3:** Pilot a project to introduce the sourcing of construction material from green/sustainable materials for new industrial and infrastructure developments in Johor.

**I4:** Establish federal-state government collaborations to integrate palm oil mill effluent ("POME")-derived biogas into the national grid.

**I5:** Establish statewide GHG emissions reporting, aligned with Malaysia's Nationally Determined Contributions.

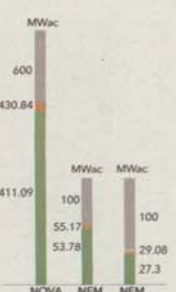
## Projected Power System Installed Capacity Mix 2050



**Source:** NETA, 2023

### Net Energy Metering (NEM)


#### NEM 3.0



**Approved:** 492.17 MW (10,530 projects)

**Operational:** 193.43 MW (10,530 projects)

#### NEM 2.0



**Approved:** 486.69 MW (6,360 projects)

**Operational:** 456.07 MW (5,140 projects)

**Source:** Sustainable Energy Malaysia Magazine, Vol 6, Issue 16, 2023

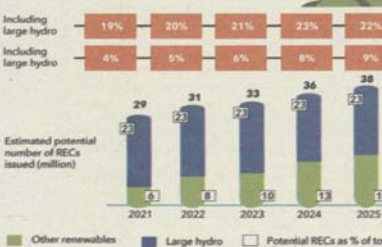
### UEM Group, Itramas, Hexa Renewables ink deal to develop 500MW hybrid solar plant in Johor

UEM Group Bhd, a wholly owned subsidiary of Khazanah Nasional Bhd, will collaborate with Itramas Corp Sdn Bhd and Hexa Renewables on the first phase of the national flagship 1GW hybrid solar photovoltaic energy transition project -- the development of a 500MW hybrid solar plant in Johor.

Towards the development of the 500MW/ hybrid solar plant, UEM Group's wholly-owned green industry arm, UEM Lestrai Bhd, has inked a shareholder agreement with Hexa Renewables Malaysia Sdn Bhd to form a joint venture (JV) company, Lestrai Hexa JV Sdn Bhd -- 51%-controlled by UEM Lestrai and 49%-owned by Hexa Renewables.

**Source:** Malaysian Investment Development Authority (MIDA)

### Potential volume of REC generation in Malaysia, 2020-2025 for the New Capacity Target scenario



**Source:** Sustainable Energy Malaysia Magazine, Vol 6, Issue 16, 2023

### Corporate Green Power Programme (CGPP)

The application for the CGPP has commenced from May 9, 2023 until Dec 31, 2023 or until the total allocation quota of 800MW is fully subscribed. There are total of 71 applications received thus far, and the successful Solar Power Producers are listed below:

Solar Power Producer	Export Capacity (MWac)
1. Cenergi EE Holdings Sdn Bhd	29.99
2. Coara Solar Sdn Bhd	29.99
3. Consortium of Angelaxy Power Sdn Bhd and Uzma Environerj Sdn Bhd	12.16
4. Consortium of Atlantic Blue Sdn Bhd and TNB Renewables Sdn Bhd	29.99
5. Consortium of Conexstone Energy Sdn Bhd and ENGIE Renewable SEA Pte Ltd	29.99
6. Consortium of JAKS Solar Power Sdn Bhd, Ann Joo Green Energy Sdn Bhd and Fabulous Sunview Sdn Bhd	29.99
7. Consortium of KVC Corp Sdn Bhd, Meriah Suria Sdn Bhd and Kuala Berang Solution Sdn Bhd	29,515
8. Consortium of Nestcon Infra Sdn Bhd and Pristine Multivision (M) Sdn Bhd	10.00
9. Consortium of Reservoir Link Renewable Sdn Bhd, Sunitomo Corp and Maqo Engineering Sdn Bhd	29.99
10. Consortium of Salcon Bhd and KAB Smart Solar Energy Sdn Bhd	7.00
11. Consortium of Savelite Engineering Sdn Bhd, Blazing Solar Sdn Bhd and TNB Renewables Sdn Bhd	29.99
12. Consortium of Shizen Malaysia Sdn Bhd, HSS Engineering Sdn Bhd, Solarvest Asset Management Sdn Bhd and Aziho Trading Sdn Bhd	29.99
13. Consortium of Solar Citra Sdn Bhd and Total Energies Renewables SAS	29.99
14. Gading Kencana Sdn Bhd	30.00
15. Mega First Power Industries Sdn Bhd	29.99
16. Pekat Teknologi Sdn Bhd	29.99
17. Sime Darby Plantation Renewable Energy Sdn Bhd	14,989
18. Solorcity REIT Sdn Bhd	29.99
19. Starken AAC Sdn Bhd	10.00
20. Sunway Construction Sdn Bhd	29.99
21. Tanah Matahari Sdn Bhd	29.99
22. TNB Renewables Sdn Bhd	29.99

\* Balance Quota = 236.58MW

**Source:** The selection of successful of solar power producer of CGPP

### Country-level utility-scale solar power capacity, in MW

Country	Operating	Construction	Pre-Construction	Announced	Prospective*	Shelved	Cancelled
<b>ASEAN Total</b>	<b>18,822</b>	<b>4,163</b>	<b>35,453</b>	<b>32,538</b>	<b>72,154</b>	<b>10,296</b>	<b>3,559</b>
Brunei	0	0	0	30	30	30	0
Cambodia	429	0	470	2,000	2,470	0	150
Indonesia	21	0	5,022	11,508	16,530	1,090	50
Laos	0	64	240	0	304	0	0
<b>MALAYSIA</b>	<b>1,577</b>	<b>150</b>	<b>906</b>	<b>1,316</b>	<b>2,372</b>	<b>329</b>	<b>598</b>
Myanmar	190	80	260	0	340	30	1,290
Philippines	2,343	2,975	17,461	16,151	36,587	4,030	510
Singapore	186	0	461	163	624	60	0
Thailand	1,041	0	1,882	820	2,702	0	158
Timor-Leste	0	0	0	0	0	0	0
Vietnam	13,035	894	8,751	550	10,195	4,727	803

**Source:** A race to the top: South-East Asia 2024, Global Energy Monitor