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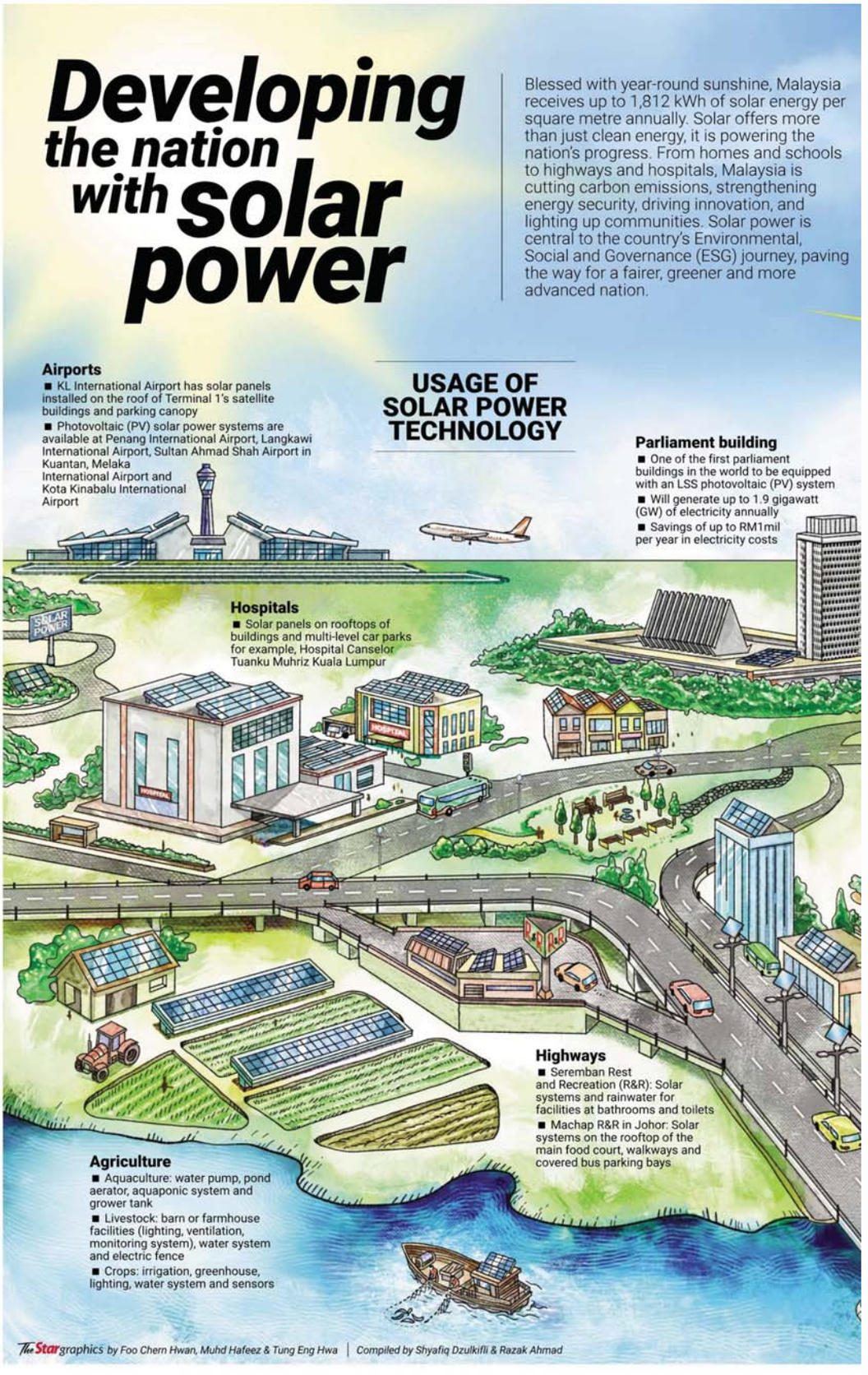
24 AUG, 2025

Developing the nation with Solar power

Sunday Star, Malaysia



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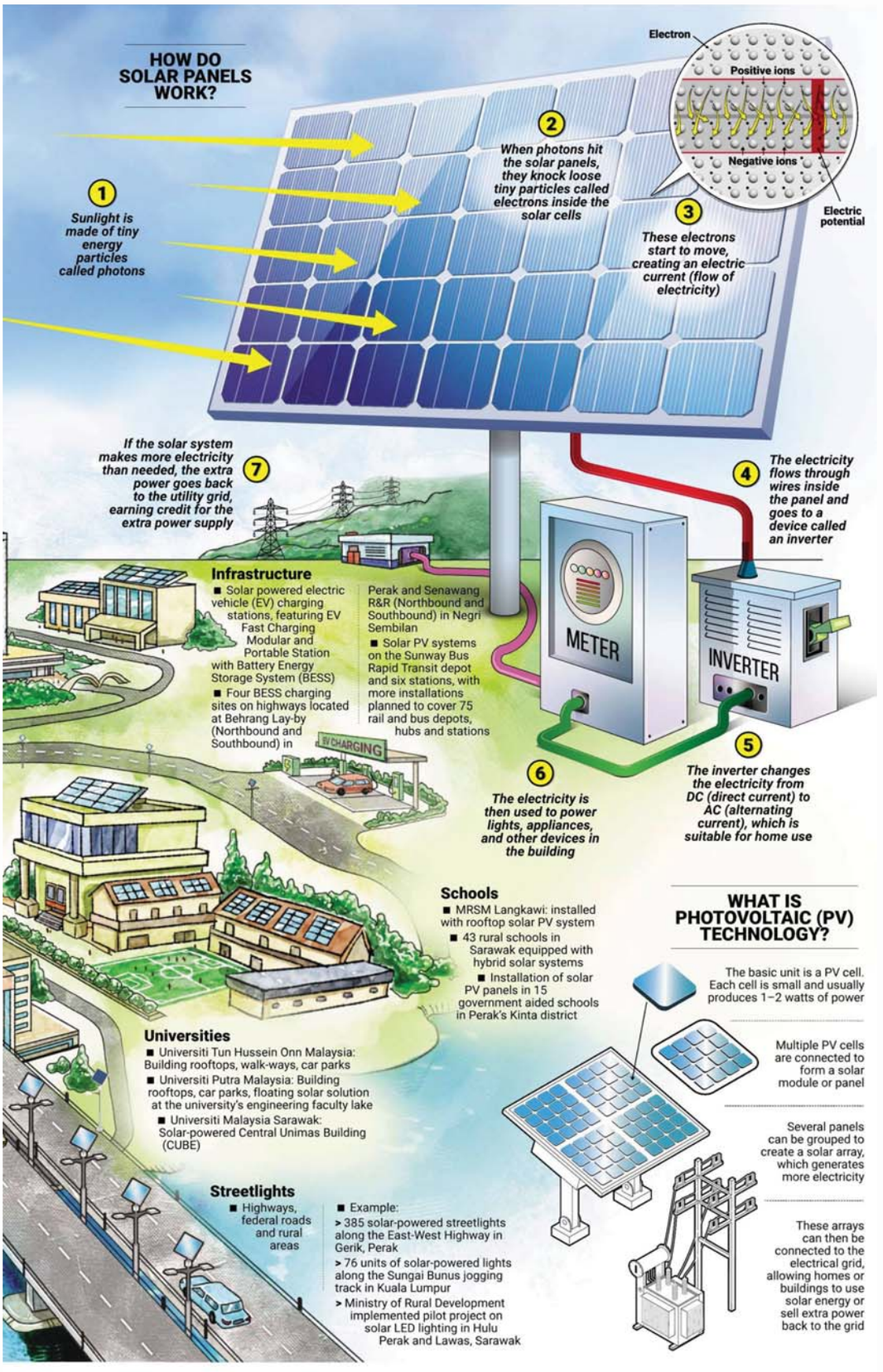

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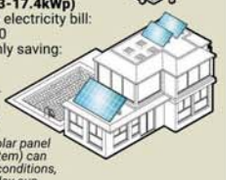
SOLAR SOLUTION PROVIDER

- TNB Solar (GSPARX)
- Maxis Home Solar
- TIME EmitSolar

Cost saving scenario by using solar power system

- **Small house (7.3 - 9.4kWp)**
  > Average monthly electricity bill: RM500-RM600
  > Estimated monthly saving: RM110 - RM140

- **Medium house (9.9 - 12.4kWp)**
  > Average monthly electricity bill: RM680 - RM1,000
  > Estimated monthly saving: RM150 - RM200

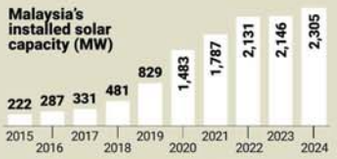


- **Large house (13-17.4kWp)**
  > Average monthly electricity bill: RM1,050 - RM1,400
  > Estimated monthly saving: RM210 - RM280

kWp = kilowatt peak
It's a measure of the maximum power a solar panel (or a whole solar system) can produce under ideal conditions, usually in bright midday sun

GOVERNMENT KEY POLICIES

Malaysia's installed solar capacity (MW)



Source: Renewable Energy Statistics 2025, International Renewable Energy Agency (IRENA)

National Energy Transition Roadmap (NETR)

- Key initiative in NETR: establish solar parks, promote floating solar and agrisolar
- Solar power in the national projected installed power capacity mix:

Year	Share of solar power in national power capacity mix, gigawatt (GW)		
2025	**12%**	out of	**46GW**
2030	**14%**	out of	**49GW**
2035	**25%**	out of	**56GW**
2040	**39%**	out of	**68GW**
2045	**52%**	out of	**82GW**
2050	**58%**	out of	**97GW**

Net Energy Metering (NEM)

- **NEM 1.0 (Nov 2016)**
  > 500MW allocation to encourage Renewable Energy (RE) uptake
  > The electricity from solar panels is used first. Any excess energy will be exported to Tenaga Nasional Berhad (TNB). The credit for such excess energy will be used to offset part of the user's electricity bill

- **NEM 2.0 (Jan 2019)**
  > **500MW** allocation
  > Excess solar energy generated exported back to the grid on a "one-on-one" offset basis

- **NEM 3.0 (Jan 2024)**
  > 2,500MW allocation
  > NEM Rakyat: **700MW**
  > NEM GoMEn: **1,000MW**
  > Net Offset Virtual Aggregation (NOVA): **1,700MW**

Large Scale Solar (LSS) program

- Competitive bidding programme to build LSS plants