





Opening of Sembcorp Tengeh Floating Solar Farm 13 July 2021

Achieving Singapore's Clean Energy Ambition

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A Leading Solar Energy Provider in Singapore

- More than 370MWp of contracted solar power capacity, spread across more than 2,500 sites
- Experienced in rooftop, ground-mounted and floating solar photovoltaic (PV) solutions for commercial, industrial and public residential customers
- Renewable energy partner for corporates such as UBS, CapitaLand, SIA and more











sembcorp





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Supporting the Long-Term Growth of Solar Energy in Singapore

Collaboration with Institutes of Higher Learning for R&D projects and skills training

2019: Partnership with Singapore Polytechnic

- Aims to commercialise solar panel recycling through a partnership with SP researchers; a pilot prototype recycling plant is underway
- Jointly developed course curriculum, internships as well as continuing education programmes for managers, engineers and technicians in the solar industry

2021: Launch of ITE-Sembcorp Centre for Sustainable Solutions

- Set up at ITE College East, it is the first-of-its kind integrated sustainable solutions training centre for students, with an emphasis on solar photovoltaic systems
- The partnership includes the joint development of staff capability and training programmes to expand the solar industry's talent pool





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About Sembcorp Tengeh Floating Solar Farm

Total Installed Capacity



Sembcorp Tengeh Floating Solar Farm **60**MWp







Powering **16,000** 4-Room HDB Households





>800 Sinkers

>122,000

Solar Panels

>250,000 Floats

Floating Solar Panel Islands **16**

Power Conditioning Systems

Singapore's **Solar Target**

Singapore is aiming to deploy at least 2 gigawatt-peak (GWp) i.e. 2,000 MWp of solar capacity by 2030, supplying about 3% of Singapore's total electricity demand.

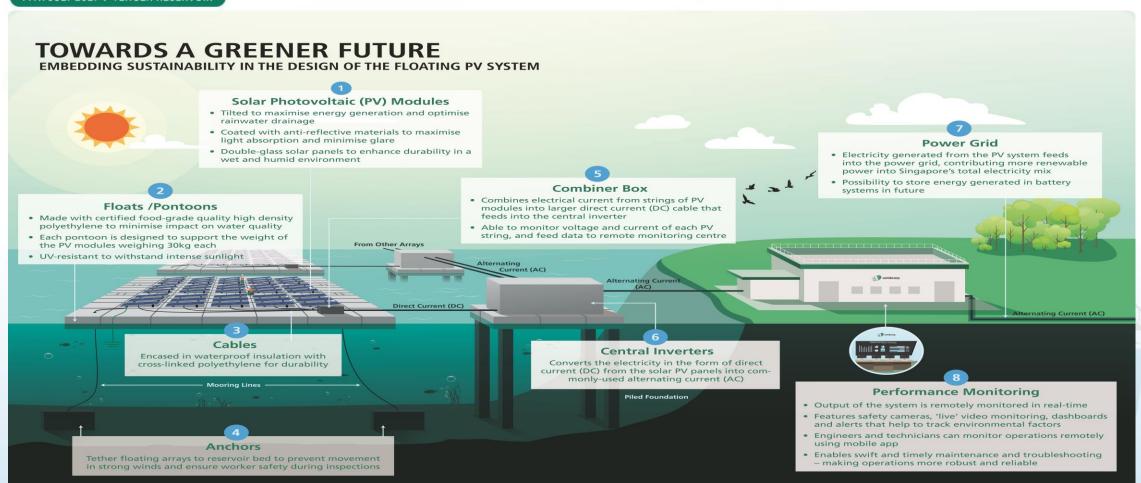
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Driving Operational Excellence through Innovative Solutions

- A custom-built jig designed to increase the rate of solar panel assembly by up to 50%
- First in the world to deploy advanced drone electroluminescence imaging technology on a utilityscale photovoltaic system
- **Drones** are also used for regular operation and maintenance checks, which helps to shave manual inspection costs by about 30%
- Sembcorp's digital monitoring platform helps engineers monitor the renewable energy generation in real time





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THANK YOU!

Any Questions?