

**SEMBCORP INDUSTRIES**  
**Renewables Factsheet**

**July 2021**

Driven by a clear purpose to play its part in building a sustainable future, Sembcorp's vision is to be a leading provider of sustainable solutions.

Today, Sembcorp is one of the largest homegrown renewable energy players with nearly 3.3GW of renewable energy capacity globally. Its renewable energy portfolio comprises solar, wind and energy storage in key markets such as Singapore, China, India, UK and Vietnam. As part of its strategic plan to transform its portfolio from brown to green, Sembcorp aims to quadruple its gross installed renewable energy capacity to 10GW, up from 2.6GW at the end of 2020.

Sembcorp began its renewables journey with its first wind power acquisition in China in 2012 and has wind power assets spread across Hebei and Inner Mongolia. In India, it was the first developer to deliver on all its projects awarded in the first three wind tenders held by the Solar energy Corporation of India (SECI). Today, Sembcorp has the largest operational wind capacity under self-operations amongst independent power producers in the country. Meanwhile, in the solar energy space, Sembcorp offers a full suite of solutions including ground-mounted, rooftop and floating solar photovoltaic (PV) systems. A leading solar energy provider in Singapore, it operates the 60MWp Sembcorp Tengeh Floating Solar Farm in Singapore, which is one of the world's largest inland floating solar farms. In India, the company is building a 400MW solar power project to support the nation's clean energy mission, and Sembcorp is also growing its solar energy footprint in Vietnam. In the UK, Sembcorp operates one of the country's largest battery storage portfolios.

<b>KEY FACTS AT A GLANCE (as of July 1, 2021)</b>		
<b>Key renewables businesses</b>	Wind, solar, energy storage	
<b>Years active</b>	Since 2012	
<b>Total RE capacity (in operation and under development)</b>	3,300MW	
<b>Markets of operation (gross capacity)</b>	Singapore: 371MWp	India: 2,129MW
	China: 750MW	UK: 120MWh
<b>Wind</b> <b>2,419MW of gross capacity</b>	<p>China</p> <ul style="list-style-type: none"> <li>725MW of wind power projects fully operational in Hebei and Inner Mongolia provinces</li> </ul> <p>India</p> <ul style="list-style-type: none"> <li>About 1,700MW of wind power projects across seven states in India</li> <li>Sembcorp Energy India was the first developer to complete and deliver 800MW of wind power from the first three tenders by the Solar Energy Corporation of India (SECI).</li> <li>Through a focus on technology and building assets for long-term deployment, we also achieved the highest wind capacity under self-operations of any independent power producer in India.</li> </ul>	

<p><b>Solar</b></p> <p><b>775MW of gross capacity</b></p>	<p>Singapore</p> <ul style="list-style-type: none"> <li>• A leading solar energy player in Singapore with a full suite of solutions including utility-scale ground-mounted, rooftop and floating solar PV systems</li> <li>• Commissioned one of the world's largest floating solar system at 60MWp in July 2021</li> </ul> <p>India</p> <ul style="list-style-type: none"> <li>• Building a 400MW solar power project in Rajasthan, target for completion in mid-2022</li> </ul> <p>Vietnam</p> <ul style="list-style-type: none"> <li>• We are also growing our solar energy footprint in Vietnam</li> </ul>
<p><b>Battery storage</b></p> <p><b>120MWh of gross capacity</b></p>	<p>UK</p> <ul style="list-style-type: none"> <li>• Developing one of Europe's largest battery storage projects with 120MWh portfolio (60MWh under construction )</li> </ul>
<p><b>2020 Renewable energy impact (*at the end of December 31, 2020)</b></p>	<ul style="list-style-type: none"> <li>• 4.6 million MWh of renewable electricity generated, equivalent to powering over one million households in Singapore (based on the average energy consumption of a four-room public housing unit in Singapore. Source: Energy Market Authority, Singapore, 2020)</li> <li>• Avoided 4.1 million tonnes of CO<sub>2</sub> equivalent emissions through renewable energy generation</li> </ul>
<p><b>Sembcorp Sustainability Targets</b></p> <p><b>(Strategic Transformation Plan)</b></p>	<ul style="list-style-type: none"> <li>• More sustainable <ul style="list-style-type: none"> <li>○ By 2025, Sembcorp aims for its sustainable solutions portfolio to comprise 70% of the Group's net profit</li> <li>○ In 2020, its sustainable solutions portfolio contributed to around 40% of the Group's net profit</li> <li>○ By 2025, its renewable energy portfolio is expected to achieve a CAGR of 30% and its integrated urban solutions portfolio a CAGR of 10%</li> </ul> </li> <li>• More renewables <ul style="list-style-type: none"> <li>○ By 2025, Sembcorp aims to quadruple its gross installed renewable energy capacity to 10GW</li> <li>○ In 2020, its gross installed renewable energy capacity (comprising wind, solar and energy storage) was 2.6GW</li> </ul> </li> <li>• More sustainable urban developments <ul style="list-style-type: none"> <li>○ By 2025, Sembcorp aims to triple its urban business' land sales to 500 hectares</li> <li>○ In 2020, land sales amounted to 172 hectares</li> </ul> </li> <li>• Lower carbon emissions <ul style="list-style-type: none"> <li>○ By 2025, Sembcorp aims to reduce its GHG intensity by 25% to 0.40 tonnes of carbon dioxide equivalent per MW hour (tCO<sub>2</sub>e/MWh) from 0.54 tCO<sub>2</sub>e/MWh in 2020</li> <li>○ In addition, the company aims to halve GHG emissions by 2030 (from a 2010 baseline of 5.4 million tCO<sub>2</sub>e) and deliver net-zero emissions by 2050</li> <li>○ Sembcorp also commits to not invest in new coal-fired energy assets</li> </ul> </li> </ul>

<p><b>Projects for a sustainable future</b></p>	<p><b>Training and Upskilling</b></p> <ul style="list-style-type: none"> <li>• Collaboration with Institute of Technical Education Singapore: established the ITE-Sembcorp Centre for Sustainable Solutions in April 2021, to jointly develop staff capability and design training programmes to equip students with solar energy asset development skills</li> <li>• The Centre aims to train about 440 trainees every year, from students to mid-career professionals and solar technologists as well as Sembcorp Solar's project staff and its appointed contractors</li> </ul> <p><b>Recycling efforts</b></p> <ul style="list-style-type: none"> <li>• In 2019, Sembcorp and Singapore Polytechnic (SP) signed a collaboration to research and commercialise Singapore's first solar panel recycling process.</li> <li>• Developed locally by SP researchers, it aims to extract up to 90% (by weight) of recyclable materials from parts of used solar panels, such as glass, silicon, and metals including silver and aluminium.</li> <li>• A photovoltaic (PV) module pilot plant is currently being developed to evaluate its commercialisation for industrial use</li> <li>• Once the pilot is successful, this initiative would help Sembcorp and the industry to actively manage and repurpose the panels and put Singapore on the map for PV recycling.</li> </ul>
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## MAJOR MILESTONES

- 2021**
  - Commissioned the Sembcorp Tengoh Floating Solar Farm in Singapore
  - Awarded a 60MWp solar energy project by the Housing & Development Board (HDB) and the Singapore Economic Development Board (EDB)
  - Awarded 400MW solar power project in Rajasthan, target for completion in mid-2022
- 2020**
  - Partnered PUB to develop one of the world's largest floating solar platforms in Singapore with 60MWp capacity
  - Completed 800MW of Solar Energy Corporation of India (SECI) wind power projects, becoming independent power producer with the largest operational wind capacity from SECI-auctioned projects in India
- 2019**
  - Entered Vietnam's renewable energy market
- 2019**
  - First 60MW of 120MW battery energy storage portfolio commences operations in the UK
- 2016**
  - Entered Singapore's solar energy sector
- 2015**
  - Entered India's renewable energy market
- 2012**
  - Entered the renewable energy market with the first investment in China