



# Trinidad and Tobago cost of 1 megawatt solar plant

The scheme is said to be Trinidad and Tobago's first commercial-scale renewable energy project. It consists of the 92-MW AC/122-MWp Brechin Castle site and the 20-MW AC/26-MWp Orange Grove site, with the latter to include collaboration with the University of the West Indies (UWI).

Let's explore an approximate cost distribution for a 1MW solar power plant: Solar Panels: \$400,000 - \$600,000; Land: \$100,000 - \$500,000 (lease or purchase) Labor and Installation: \$200,000 - \$400,000; Equipment and Infrastructure: \$100,000 - \$200,000; Permitting and Regulatory Fees: \$50,000 - \$150,000; Maintenance (Annual): \$20,000 ...

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The second plant will be built in Orange Grove, near Trincity. The two plants will have a combined capacity to generate a total of 112.2 mw of solar electricity. In October 2021, Finance Minister Colm Imbert said the estimated cost to build the plants is US\$100 million.

The two sites will have a combined capacity to generate a total of 112.2 mw of solar electricity, more than the total generating capacity of most islands in the Eastern Caribbean. This will be the largest solar project in the Caribbean when complete.

A number of projects have been planned to meet the policy's objectives which include a Piarco Airport Solar Project, a 112-Megawatt Solar Photovoltaic plant, VAT waivers for manufacturers utilizing alternative energy, and a \$4,200 rebate for approved agricultural buildings which employ wind or solar.

IRENA estimated that total on-grid solar PV installations in Trinidad and Tobago were 4.1 MW with a yearly production capacity of 6 GWh in 2023. 6. Projected: Mordor Intelligence estimated that the solar capacity of Trinidad and Tobago will reach 184 MW by 2026, with a Compound Annual Growth Rate (CAGR) of 109.24%. 7

The solar project is being constructed by a consortium made up of bp Alternative Energy Trinidad and Tobago (bpATT) and Shell Renewables Caribbean (Shell). Lightsource bp is the construction manager for the project.



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The project is expected to produce approximately 300,000MWh of green electricity per year.

Two grid-scale solar power projects to be constructed in Trinidad will deliver electricity at prices on par with the current average cost of electricity generated from natural gas, according to Trinidad & Tobago's Prime Minister, Dr Keith Rowley, talking at day one the Energy Chamber's Energy Efficiency and Renewables Conference 2020.

The plant for Trinidad would cost about US\$100-150 million, on 150 hectares of land and provide 100 megawatt hours. Vogt added that it would be an attractive project from the point of view of foreign direct investment, a new tax base, and long term local jobs - and of course, extra revenue from gas that was sold instead of used to generate ...

The project forms part of a government initiative for the supply of renewable energy to the domestic market led by the Ministry of Energy and Energy Industries of the Republic of Trinidad and Tobago. The solar project includes a 92 megawatt (MWac) solar farm split over two sites, totalling 186 hectares (ha) and an overhead 2.8km grid connection ...

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