



# Nortmar power system Trinidad and Tobago

What is electricity generation in Trinidad & Tobago?

Electric Power Generation In Trinidad and Tobago (T&T), electricity generation primarily uses natural gas as the fuel source. The power generation technology used are simple cycle gas turbines and combine cycled gas turbines with heat recovery steam generators.

How many independent power producers are there in Trinidad and Tobago?

The present electricity generation landscape in T&T comprises three Independent Power Producers (IPPs) providing bulk power with varying obligations and contracted capacities to Trinidad and Tobago Electricity Commission (T&TEC).

Who owns power generation in Trinidad & Tobago?

Power Generation Company of Trinidad and Tobago (POWERGEN) Ownership: In 1994, T&TEC divested its generation assets to POWERGEN, a company whose ownership structure at the time was led by T&TEC with a 51 percent shareholding, followed by Southern Electric International with 39 percent and Amoco with 10 percent.

Is Trinidad and Tobago an industrial Sid?

Trinidad and Tobago represents a unique case study as an industrial SID, whereby knowledge and guidance on multiple decision criteria can aid in reducing national carbon footprints.

Trinidad and Tobago's renewable energy policy is rooted in its COP21 Paris Agreement commitments, which include a target for sourcing 20% of its electricity from renewables by 2030.

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The Power Generation Company of Trinidad and Tobago Limited (PowerGen) was established on December 23rd, 1994 and is a joint venture company created out of the partial divestment of the generation assets of the Trinidad and Tobago Electricity Commission (T & TEC).

This case highlights the present BAU power generation system employed in Trinidad and Tobago. All major plants provide power via the combustion of natural gas, as there is an abundance of resources, with multiple

fields within the country"s boundaries (Fig. 2).

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This profile provides a snapshot of the energy landscape of Trinidad and Tobago, a two-island nation located off the coast of Venezuela. Trinidad and Tobago s electricity rates are some of the lowest in the Caribbean at approximately \$0.04 per kilowatt-ho ur (kWh), well below the regional average of \$0.33/kWh.

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In Trinidad and Tobago (T& T), electricity generation is primarily from natural gas. This natural gas fuel is burnt and the heat energy released is used to produce steam. This steam is then used to turn a steam turbine which is connected to an electrical generator to produce electricity.

This makes the Solar photovoltaic (PV) systems very applicable for Trinidad and Tobago. The cost for these systems are constantly coming down. The government is encouraging the use of Solar energy through tax incentives, thus making PV systems more attractive for domestic and commercial use.

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