

How much does electricity cost in Tunisia?

the Tunisian Company of Electricity and Gas (STEG) commercial, its tariff is 0.338 Dt per kWh. As a result, the total cost savings from purchasing power from the grid system is 44.413 Dt per year. (NB: 1 Dt = 0.29 Euro s). In terms of environmental sustainability, 131.4 kWh of solar power generated annually kWh. 4.3. Experimental results

How much energy does Tunisia use a year?

With reference to the SAPS economic aspect, the year-round load consumption is 131.4 kWh. As regards the Tunisian Company of Electricity and Gas (STEG) commercial, its tariff is 0.338 Dt per kWh. As a result, the total cost savings from purchasing power from the grid system is 44.413 Dt per year. (NB: 1 Dt = 0.29 Euro s).

Can solar power generation be used in other regions of Tunisia?

Only the region of Borj Cedria was considered. Therefore, the research findings are unsuitable for other regions of Tunisia. Future researchers can take a techno-economic and environmental feasibility analysis of SAPS power generation to other regions of the country. Moreover, make it independent of the national grid.

Where is Tunisia located?

Tunisia is a relatively small country in northern Africa, bordering the Mediterranean Sea. The Borj Cedria area is Figure 4). This area receives a huge amount of solar radiation, according to the PVsyst software (see Figure 3). Preliminary studies have shown that the site has huge energy potential.

Can a lead-acid battery be used as a storage system?

Economical light sources, such as a 23-watt compact fluorescent lamp, can be used as electrical loads. A Lead-acid battery is employed as a storage system to cover the shortfall of PV generation systems. The Lead-acid battery parameters are shown in Table 4.

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