

# **Energy equipment costs in Guatemala**





## Overview

---

How is energy used in Guatemala?

Total energy supply (TES) includes all the energy produced in or imported to a country, minus that which is exported or stored. It represents all the energy required to supply end users in the country.

How much do people spend on energy in Guatemala?

In the urban area around Guatemala City, households spend on average 10–15% of monthly income on energy expenses (including electricity, kerosene, propane, coal, batteries, firewood, and candles). Only in a select few municipalities near Guatemala City center is the Energy Poverty Indicator below 10%.

How much electricity does Guatemala need?

We estimate future electricity demand based on Guatemala's residential electricity demand in year 2018 and its historical growth in total electricity demand. Specifically, residential electricity consumption was an estimated 3.7 TWh per year in 2018 (IEA, 2021), or roughly one-third of the country's total electricity demand.

Are renewables cheaper in Guatemala than fossil fuels?

Thus, it is possible that if coal costs are at the higher end of the Lazard (2017) distribution, and renewable technology costs are close to regional default values, renewables would be cheaper on average in Guatemala than fossil fuels (Fig. C2).

Where is electricity most expensive in Guatemala?

Electricity expenditure is greatest in the eastern and northern parts of the country, because electricity prices, even with subsidies, are more expensive there (CNEE, 2020). As such, the rural eastern and northern regions are more vulnerable to electricity price increases than the urban areas of Guatemala



City and Quetzaltenango.

How much does wind energy cost in Guatemala?

That is, capital costs for wind energy in Guatemala from SEERE simulations are between \$2286–8310/kW, while other sources find ranges of \$1000–4500/kW for large-scale turbines and \$2500–15,000/kW for small turbines.



## Energy equipment costs in Guatemala

---



### [Lithium Iron Phosphate Battery Prices in Guatemala City 2024 Cost ...](#)

As Guatemala City embraces renewable energy solutions, lithium iron phosphate (LiFePO<sub>4</sub>) battery packs have become a top choice for solar storage, electric vehicles, and industrial ...

### [Breakdown of Guatemalan EEM recommendations including total ...](#)

The plotted curves in Figure 7 indicate that payback periods can be expected to decrease with increasing energy costs and increase with increasing capital costs, and the correlations seen in



### **A Comparison Between Industrial Energy Efficiency Measures in Guatemala**

While lower capital costs incentivize EEM implementation and reduce payback periods, there is an interplay between energy cost and capital cost that impacts the trends in the U.S. and ...



### **Breakdown of Guatemalan EEM recommendations including total annual cost**

The plotted curves in Figure 7 indicate that payback periods can be expected to decrease



with increasing energy costs and increase with increasing capital costs, and the correlations seen in



### [Energy Storage Power Station Costs: Breakdown & Key Factors](#)

3 days ago · Discover the true cost of energy storage power stations. Learn about equipment, construction, O& M, financing, and factors shaping storage system investments.

## Contact Us

---

For catalog requests, pricing, or partnerships, please visit:  
<https://www.legnano.eu>