ENERGY TRANSITIONS INITIATIVE

U.S. Department of Energy

Guam
Energy Snapshot

Population and Economy

Population Size **165,768**

Total Area Size **540 Sq. Kilometers**

Total GDP **$5.9 Billion**

Gross Domestic Product (GDP) Per Capita **$35,600**

Share of GDP Spent on Imports **53.7%** Fuel Imports **6.2%**

Urban Population Percentage **94.9%**

Electricity Sector Overview

Installed Capacity **420 MW**

RE Installed Capacity Share **6%**

Peak Demand (2018) **254 MW**

Total Generation (2018) **1.8 GWh**

Transmission and Distribution Losses **4.9%**

Electricity Access **100%** (total population)

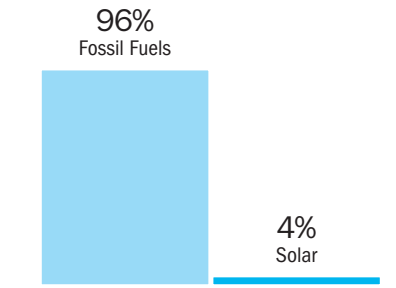Average Electricity Rates (USD/kWh)
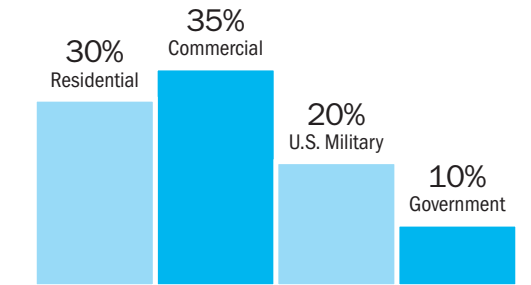
Residential **$0.20**

Large Power **$0.14**

demand exceeds 200 kWh/day + demand charge of $8.94 per kW of billing demand month

Rates do not include fuel recovery or customer charges. Full list of rates are found at: http://guampowerauthority.com/gpa_authority/rates/gpa_rate_schedules.php
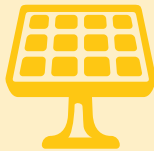
Electricity Generation Mix

- 96% Fossil Fuels
- 4% Solar

Electricity Consumption by Sector

- 30% Residential
- 35% Commercial
- 20% U.S. Military
- 10% Government

Renewable Energy Status

Solar

25.3 MW

Targets

Renewable Energy Generation

50% by 2035 **100%** by 2045

http://www.guamlegislature.com/Public_Laws_35th/P.L.%20No.%2035-46..pdf

Existing Policy and Regulatory Framework

Renewable Energy

Policy	Status
Feed-in Tariff	
Net Metering	●
Interconnection Standards	●
Energy Access (Electrification Rate)	
Renewable Portfolio Standard	●
Tax Credits	●
Tax Reduction or Exemption	
Public Loans or Grants	
Auctions or Reverse Auctions	●
Green Public Procurement	
Energy Storage	

Energy Efficiency

Policy	Status
Energy Efficiency Standards	
Tax Credits	
Tax Reduction or Exemption	
Public Demonstration	●
Restrictions on Incandescent Bulbs	
Appliance Labeling Standards	●
Minimum Energy Performance Standards	
Building Codes	●
Green Building Certification Program	●
EE Loan Programs	
Rebates	●

Targets

Target	Status
Renewable Energy	●
Energy Efficiency	
Transportation	

● In Place   ○ Proposed

Government and Utility

Government Institution for Energy

Guam Energy Office

http://energy.guam.gov/

Regulatory Entities

Guam Public Utilities Commission

https://www.guampuc.com/

Utility(s)

Guam Power Authority

http://guampowerauthority.com/

Energy Security and Resilience

Integrated Resource Plan

http://guamccu.org/wp-content/uploads/2015/12/Resolution-2016-36-Relative-to-Update-of-Integrated-Resource-Plan.pdf

Guam Energy Action Plan

https://www.nrel.gov/docs/fy13osti/59191.pdf

Guam Strategic Energy Plan

https://www.nrel.gov/docs/fy13osti/59192.pdf

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