



## Population and Economy

Population Size **383,071**

Total Area Size **22,970 Sq. Kilometers**

Total GDP **\$1.87 Billion**

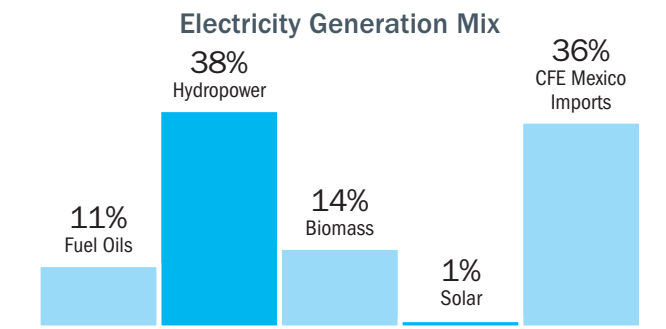
Gross National Income (GNI) per Capita **\$4,470**

Share of GDP Spent on Imports **58%** Fuel Imports **1.5%**

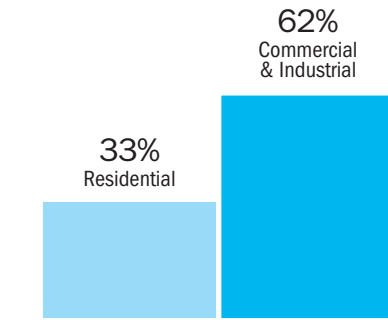
Urban Population Percentage **46%**

## Electricity Sector Overview

Installed Capacity <b>119.98 MW</b>
RE Generation Capacity Share <b>61%</b>
Peak Demand (2018) <b>104.2 MW</b>
Total Generation (2018) <b>651.12 GWh</b> <i>Includes 235.16 GWh purchased/imported from Commission of Federal Electricity (CFE) in Mexico</i>
Transmission and Distribution Losses <b>11.9%</b>
Electricity Access <b>92%</b> (total population) Electrification – Urban Areas <b>97.1%</b> (2016) Electrification – Rural Areas <b>88.4%</b> (2016)
Average Electricity Rates (USD/kWh) Social (60kWh or less per month) <b>\$0.11</b> <i>(\$2.50 minimum monthly charge)</i> Residential and Small Commercial <b>\$0.20</b> <i>(\$5.00 minimum monthly charge)</i> Large Commercial <b>\$0.20</b> <i>+ \$75 monthly service charge</i> Small Industrial <b>\$0.15</b> <i>+ \$18.40 demand charge (kVA)</i> <i>+ \$124 monthly service charge</i> Large Industrial <b>\$0.13</b> <i>+ \$12.40 demand charge (kVA)</i> <i>+ \$124 monthly service charge</i> Street Lights <b>\$0.23</b>



## Electricity Consumption by Sector



## Renewable Energy Status

Hydropower	Biomass	Solar
<b>51.3 MW</b>	<b>21.5 MW</b>	<b>0.48 MW</b>

## Targets

### Renewable Energy Generation

**85%** by 2030\* **70 MW** Total installed Hydropower by 2033  
Supply **5MW** of electricity from municipal solid waste by 2033

\*Conditional NDC Goal <https://www4.unfccc.int/sites/ndcstaging/PublishedDocuments/Belize%20First/BELIZE%27s%20%20NDC.pdf>

### Energy Efficiency

**30%** Increase in energy efficiency by 2033\*

\*Based on baseline year 2011 <https://climate-laws.org/cclow/geographies/18/policies/1081>

### Transportation

**20%** reduction in conventional transportation fuel use by 2030

## Existing Policy and Regulatory Framework

### Renewable Energy

Feed-in Tariff

Net Metering

Interconnection Standards ○

Energy Access ●

Renewable Portfolio Standard

Tax Credits

Tax Reduction or Exemption ●

Public Loans or Grants

Auctions or Reverse Auctions ●

Green Public Procurement

Energy Storage

Rebates ○

### Energy Efficiency

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

Renewable Energy ●

Energy Efficiency ●

Transportation ●

● In Place ○ Proposed



## Government and Utility

### Government Institution for Energy

Ministry of Labour, Local Government and Rural Development, Public Service, Energy & Public Utilities

<http://www.publicservice.gov.bz/>

### Regulatory Entities

Public Utilities Commission

<https://www.puc.bz/>

### Utility(s)

Belize Electricity Limited (BEL)

<http://www.bel.com.bz/>

### Government Institution for Disasters

National Emergency Management Organization

<https://www.preventionweb.net/organizations/1455>



## Energy Security and Resilience

### Horizon 2030: The National Development Framework for Belize

<http://med.gov.bz/horizon-2030-the-national-development-framework-for-belize/>

### National Energy Policy Framework

[https://www.greengrowthknowledge.org/sites/default/files/downloads/policy-database/BELIZE\)%20National%20Energy%20Policy%20Framework\\_1.pdf](https://www.greengrowthknowledge.org/sites/default/files/downloads/policy-database/BELIZE)%20National%20Energy%20Policy%20Framework_1.pdf)

### Belize National Sustainable Energy Strategy (2012-2033)

[http://www.publicservice.gov.bz/jdownloads/Strategic%20Plans/MESTPU\\_Strategic\\_Plan\\_-\\_2012-2017.pdf](http://www.publicservice.gov.bz/jdownloads/Strategic%20Plans/MESTPU_Strategic_Plan_-_2012-2017.pdf)

### Belize Growth and Sustainable Development Strategy

<http://caribbean.cepal.org/content/belize-growth-and-sustainable-development-strategy-gsds>

### National Climate Change Policy, Strategy and Action Plan

<http://extwprlegs1.fao.org/docs/pdf/blz169290.pdf>

### Energy Resilience for Climate Adaptation Project for Belize

<http://www.bel.com.bz/Documents/Environment/Strengthening%20Transmission%20Network%20Structures.pdf>

This document was developed by the National Renewable Energy Laboratory with support provided by the Caribbean Center for Renewable Energy and Energy Efficiency. The information included in this document is for general information purposes only. While reasonable attempts were made to provide accurate data, this document was prepared using data from multiple sources, including public sources.