

Population and Economy



Population Size **106,977**

Total Area Size **350 Sq. Kilometers**

Total GDP **\$3.98 Billion**

Gross Domestic Product (GDP) per Capita **\$35,938**

Share of GDP Spent on Imports **101%**

Urban Population Percentage **95.8%**

Electricity Sector Overview

Installed Capacity **238 MW**

St. Thomas **138 MW** St. Croix **100 MW**

RE Installed Capacity Share **9%**

Includes net-metered installations.

Peak Demand **94 MW**

St. Thomas **56 MW** St. Croix **38 MW**

Total Generation **629 GWh**

Transmission and Distribution Losses

St. Thomas and St. John **6%** St. Croix **13%**

Energy Access **100%** (Total Population)

Average Electricity Rates (USD/kWh)

Residential **\$0.40** (first 250 kWh/month)

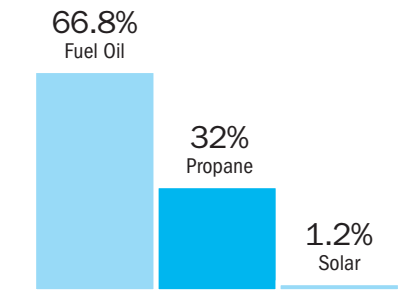
Residential **\$0.43** (above 250 kWh/month)

Commercial **\$0.465**

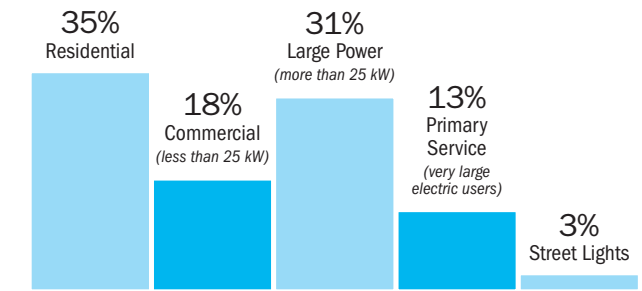
Industrial **\$0.46**

+ **\$2.51** demand charge

Generation Mix (2019)



Energy Consumption by Sector



Renewable Energy Status

Solar



21 MW

Targets

<https://programs.dsireusa.org/system/program/detail/4020>

Renewable Energy (peak demand generating capacity)



20% by 2015 **25%** by 2020 **30%** by 2025

Increasing until 51% of generating capacity is derived from renewable or alternative energy.

Fossil Fuel Based Energy Reduction



60% by 2025

<https://fas.org/sgp/crs/row/R45105.pdf>

Existing Policy and Regulatory Framework

<https://programs.dsireusa.org/system/program?state=VI>

Renewable Energy

- Feed-in Tariff ●
- Net Metering / Net Billing ●
- Interconnection Standards ●
- Energy Access (Electrification Rate) ●
- Renewables 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
Virgin Islands Energy Office
<https://energy.vi.gov>

Regulatory Entities

Virgin Islands Public Services Commission
<https://psc.vi.gov/>

Utility(s)

Virgin Islands Water & Power Authority
<http://www.viwapa.vi>

Government Institutions for Disasters

United States FEMA
<https://www.fema.gov>

Virgin Islands Territorial Emergency Management Agency (VITEMA)
<http://www.vitema.vi.gov>

Virgin Island Office of Disaster Recovery
<http://www.usviodr.com>



Energy Security and Resilience

Infrastructure and Protection Plans

United States Infrastructure Protection Plan under the Department of Homeland Security

<https://www.cisa.gov/national-infrastructure-protection-plan>

Integrated Resource Plan (IRP)

<http://www.viwapa.vi/docs/default-source/default-document-library/draft-2019-wapa-integrated-resource-plan.pdf>

Virgin Islands Water and Power Authority: 2021 Strategic Plan

http://www.legvi.org/committeemeetings/Government%20Operations,%20Consumer%20Affairs,%20Energy%20and%20Environment%20and%20Planning/Committee%20Hearing/03-01-2019/Items%20Requested%20Through%20the%20Chair/WAPA/WAPA%20Strategic%20Plan%202021/WAPA_StrategicPlan2021_0117.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.