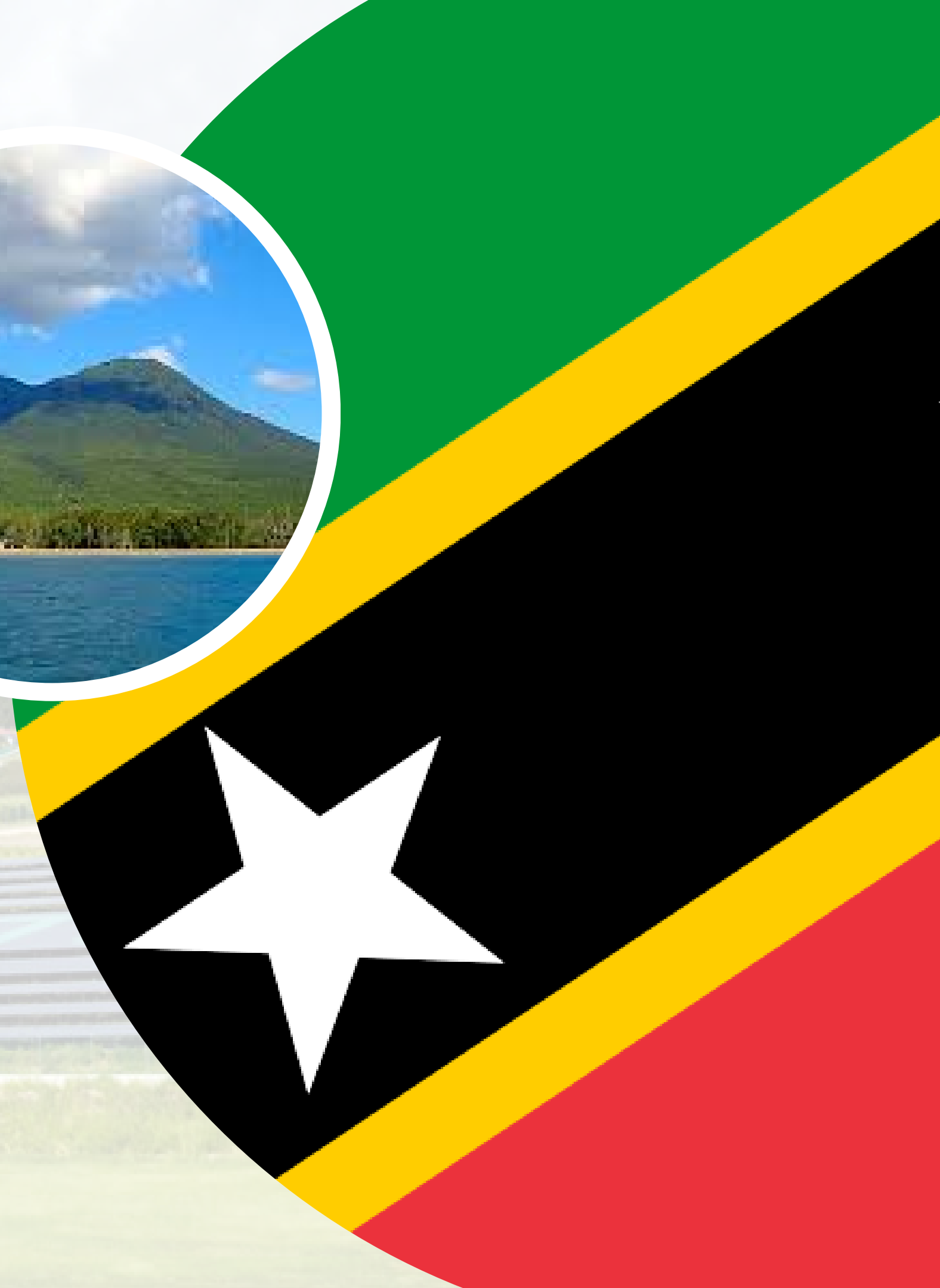


2023 ENERGY REPORT CARD ST. KITTS & NEVIS





Introduction

This is the Energy Report Card (ERC) for 2023 for St. Kitts and Nevis

The ERC provides an overview of the energy sector performance, highlighting the following areas:

- Installed Conventional and Renewable Power Generation Capacity
- Annual Electricity Generation, from Conventional and Renewable Plants
- Other Electricity Sector Metrics, such as Losses, Consumption, and Tariffs
- Renewable Energy Targets
- Renewable Energy Resource Potential

The ERC also includes sectoral data and information on policies and regulations; workforce; training and capacity building; and related areas.

The data and information that are available in the ERC were mostly provided by the government ministries, agencies, and departments, that have responsibility for statistics and planning, in general, and the energy sector and electricity subsector including the electric utilities, in particular. The data and information collected was supplemented by desk-based research and, in instances, information was generated from calculations and analyses that were performed by the CCREEE.

Quality Assurance

The collection and treatment of data and information that is produced for the ERC is consistent with the International Recommendations for Energy Statistics (IRES), which provides a comprehensive methodological framework for the collection, compilation, and dissemination of energy statistics in all countries irrespective of the level of development of their statistical system. The ERC is produced in accordance with these performance standards that seek, as far as is possible, to ensure the quality (i.e., objectivity, utility, and integrity) of data and information that it disseminates to the public.

The CCREEE strives for transparency on the information and methods that are used within the production of the ERC, with a view to improve understanding on how the information should be treated and to facilitate reproducibility of the information. Nevertheless, the Centre recognizes that quality may be limited by the nature and source of the data and information disseminated.

Disclaimer

The ERC includes data and information that is contained in a variety of public sources and, though every effort is made to validate the accuracy and validity of the contents, reliance on the information herein is strictly at the user's risk.

Correction of Errors

If a substantive error is detected after the ERC is disseminated, the CCREEE will make correction and issue an errata notice, or other notification as appropriate. Also, the information contained within the ERC may be revised, after initial dissemination to reflect more complete information or other significant changes in the underlying data. The ERC may, from time to time, include information that is preliminary and is expected to be revised, or information that is revised from previously disseminated versions. In such instances, those cases are clearly noted.

Requests for Correction

The CCREEE has established administrative mechanisms to allow persons to seek and obtain, where appropriate, legitimate correction(s) to information maintained and disseminated through the ERC. Any request for corrections should be sent to: energyreportcard@ccreee.org, under the subject: REQUEST FOR CORRECTION TO ERC 2023 FOR ST. KITTS AND NEVIS.

Acknowledgements

The CCREEE acknowledges the contributions of the Ministry of Ministry of Public Infrastructure, Energy, Utilities, & Domestic Transport, St. Kitts and Nevis, and thanks Mr. Denasio Frank Energy Officer, in the Energy Unit of the Ministry, for his supervision of the intern, Stewart Mangan who supported the preparation of the ERC.



Energy Sector Summary

Population (Estimation)	51,320 [1]
GDP (USD)	\$ 1,065,663,392 [1]
GDP (USD) Per Capita	\$ 20,765.07 [1]
Gross National Income (GNI) Per Capita (USD)	\$ 32,540 [2]
Debt as % of GDP	60.71% [3]
Human Development Index	0.838 [4]
National Development Plan/Overall Country Development Strategy	St. Kitts and Nevis National Development Planning Framework 2023-2037 ¹
National Energy Policy	St. Kitts and Nevis Revised National Energy Policy (2014) [5]
Renewable Energy (RE) Policy	None
Renewable Energy Target	100% RE based generation of electricity by 2030 [6]
Energy Efficiency Target	None
Total Installed Conventional Capacity (MW)	76 MW [9] [10]
Total Installed RE (MW)	2.7 MW [9] [10]
Electricity System Losses (%)	4.1% [9] [10]

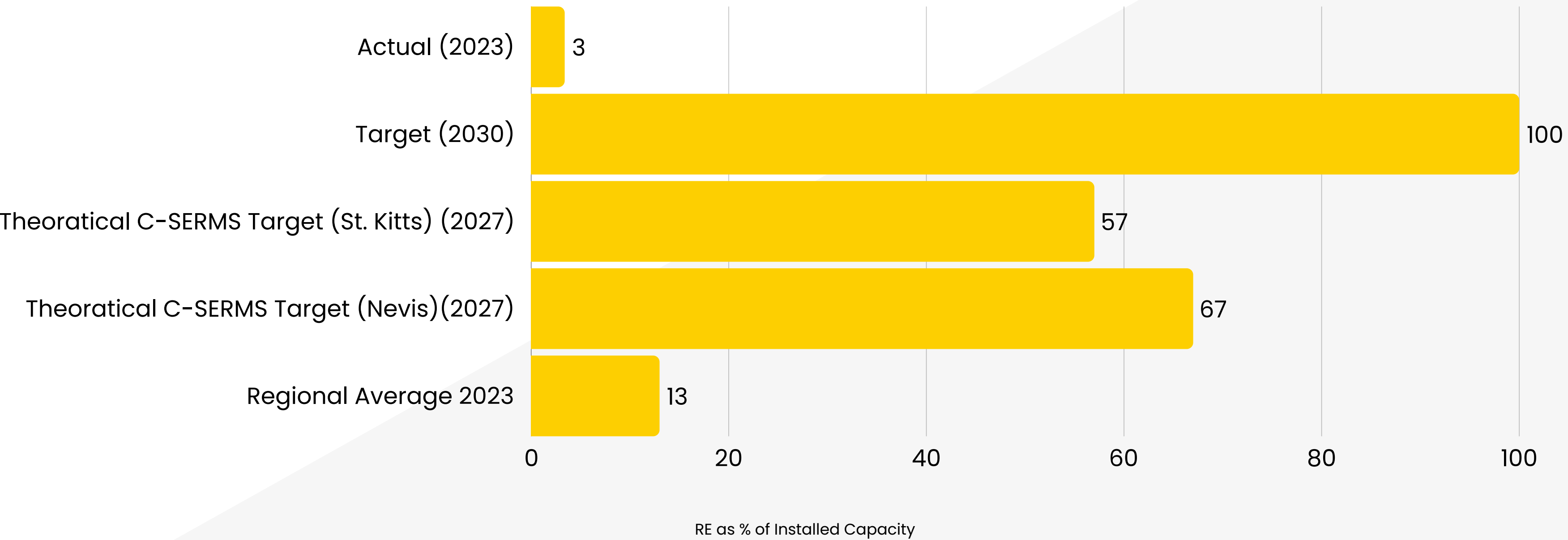
Energy Use (kWh) Per Capita	2,865.51 kWh
National Repository for Energy Data	None
Energy Performance Standards/Appliance Labelling	CARICOM Regional Energy Efficiency Building Code (CREEBC) [11]
Climate Change Policy	St. Kitts and Nevis National Climate Change Policy [7] The National Climate Change Adaptation Strategy for St. Christopher and Nevis (2018) [8]
Nationally Determined (NDC) Summary [9]	<ul style="list-style-type: none">• Transition to 100% renewable energy in power generation*• Improve efficiency in transmission and distribution of electricity• Electrification of 2% of the total vehicles• Development of EV infrastructure <p>*35 MW of renewable energy proposed to be sourced from a solar farm that will be constructed through private capital, beyond which, all other interventions are conditional.</p>

1 - This document is not available for public viewing.



Energy Sector Performance [6][9] [10] [11]

Renewable Energy Capacity Against Targets



The information presented reflects the most recent year—2022—for which complete and verified energy data are available.



Government Ministries, Departments and Agencies

Ministry of Public Infrastructure, Energy and Utilities, Domestic Transport [12]

- Energy Unit [13]
- Transport Board

Ministry of Sustainable Development

- Department of Statistics [15]

Ministry of Environment, Climate Action and Constituency Empowerment [14]

- Department Environment
- Department Climate Action [13]

Ministry of Tourism, Civil Aviation and international Transport [18]

- Department of Maritime Affairs

Fuel Importers & Suppliers

Delta Petroleum [19]

Sol EC Limited (St. Kitts and Nevis) [18]



Independent Power Producer

None

Electricity Regulator

None

Electric Utility

St. Kitts Electricity Company Limited (SKELEC) [22]

Nevis Electricity Company Limited (NEVLEC) [23]



Policy, Legal and Regulatory (PLR) Framework

	Year	Status
Energy Policy [5]	2014	In Force
Energy Action Plan		Not Established
RE Target [6]	2021	In Force
EE Target		Not Established
Electricity Regulator		Not Established
Net Billing/Net Metering		Not Established
Interconnection Policy/Standards [22] ²	2018	In Force
Feed-In-Tariff		Draft in Progress ³
Integrated Resource and Resilience Plan		Draft in Progress
RE/EE Act		Not Established

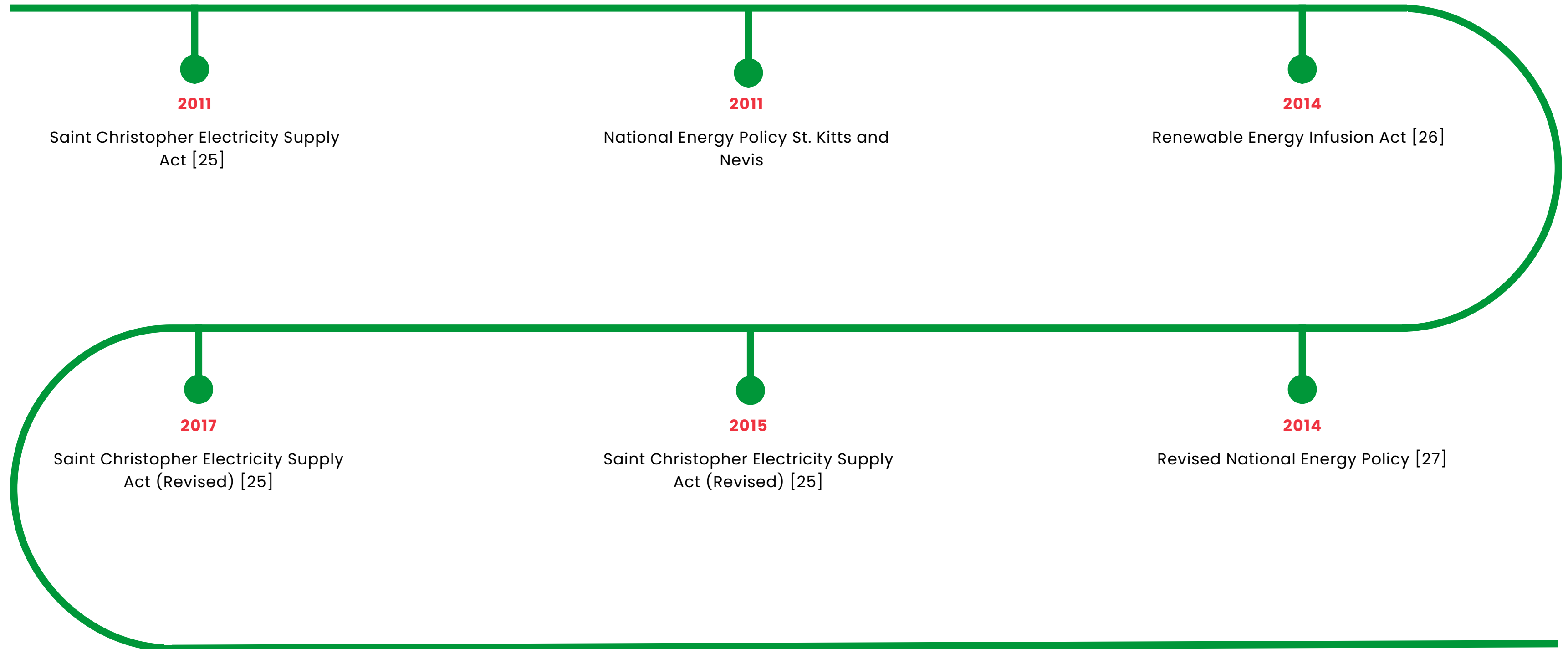
2 – The document is not publicly available.

3 – A draft was published in 2024 [23].



Policy, Legal and Regulatory (PLR) Framework

Key Achievements: PLR Framework Timeline for Electricity Sub-Sector





Policy, Legal and Regulatory (PLR) Framework

Policies Relevant to the Energy Sector

Year	Name	Status	Description
2003	Medium Term Economic Strategy 2003 - 2005 ³	In Force	
2014	National Energy Policy [5]	In Force	The Policy outlines the framework for the country to become energy secured and urges the diversification of the energy mix. The use of renewable energy to including solar, geothermal and waste-to-energy is encouraged as the country makes a transition in the energy sector. The Policy addresses the electricity sector and the transportation sector in the transition.
2017	Integrated Resource Plan [28]	In Force	The Plan evaluates supply resource options in response to demand growth on a comprehensive basis and provides an analysis of the options.
2021	Integrated Resource and Resilience Plan	Draft	

3 - Public Reference no longer available



Policy, Legal and Regulatory (PLR) Framework

Legislation Relevant to the Energy Sector

Year	Name	Status	Description
1947	Public Utilities Commission Ordinance (Revised 2009)[32]	In Force	An Ordinance to make provision for the establishment, functions and procedures of a Public Utilities Commission for Nevis.
1949	Nevis Electricity Ordinance [31]	In Force	This Act allows for the provision of the supply of electricity on the island of Nevis by a public supplier and details the regulations and process to obtain the supply of electricity.
1995	Nevis Geothermal Resources Development Ordinance [31] (Revised 2009)	In Force	The Ordinance allows for the survey, exploration, drilling, productions and use of geothermal resources, in which entities may apply for a license. Any benefits gained from geothermal resources would be owned by the Government of St. Kitts and Nevis.
1963	St Christopher Electricity Supply Act (Amended 2015)[29]	In Force	Provides for the establishment of the legal framework ruling the electricity sector, to make provisions for the promotion of renewable energy sources and related matters.

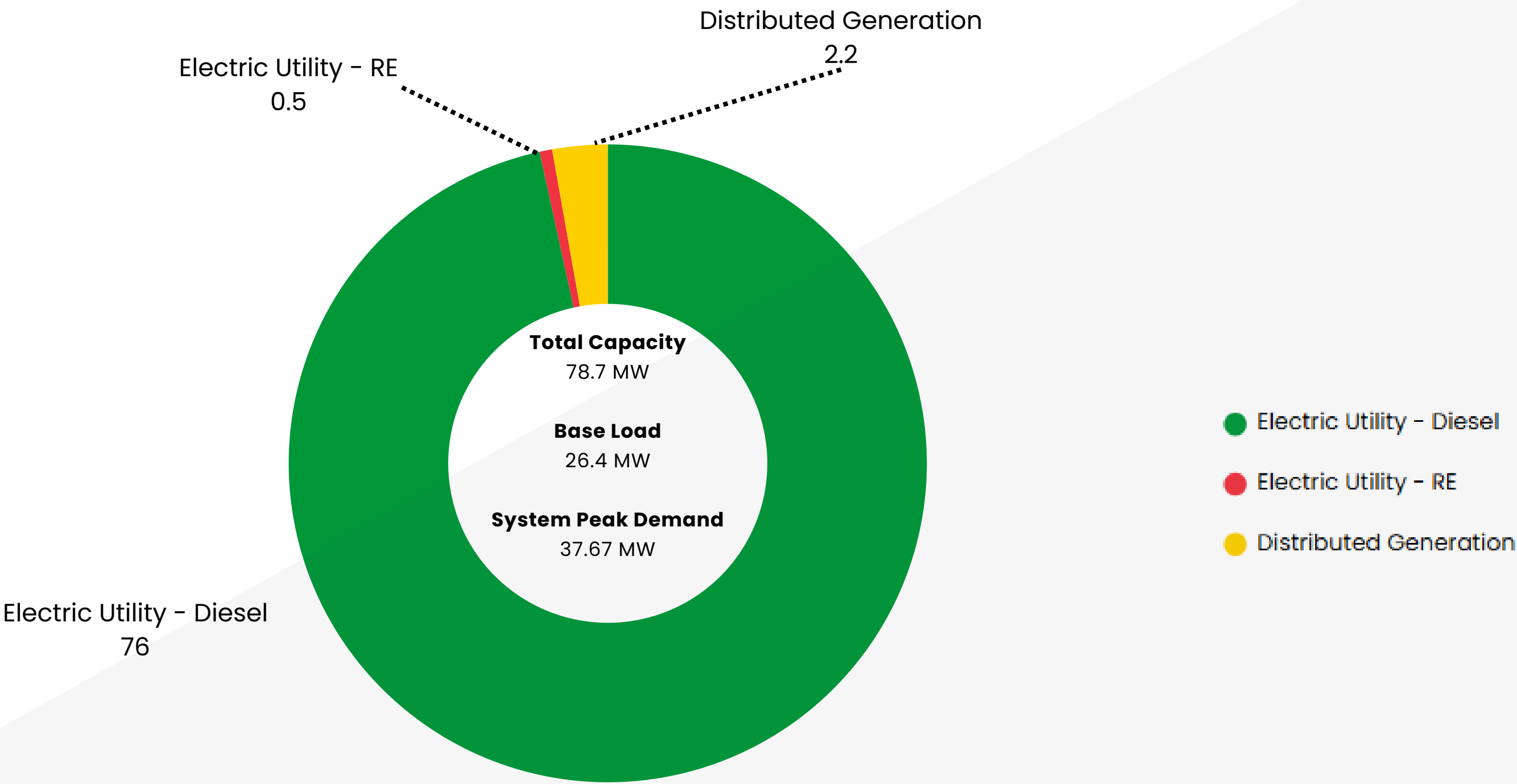
Renewable Energy and Energy Efficiency Fiscal Incentives

Year	Name	Status	Description
2012	Alternative Energy Equipment Incentive[33]	In Force	Under the National Energy Policy, selected alternative energy equipment, including solar panels, hydrogen fuel cells, and low-energy lighting, has been approved for import duty and Customs Service Charge (CSC) exemptions.



Electricity and Energy Efficiency [9] [10] [11]

Installed Capacity (MW)



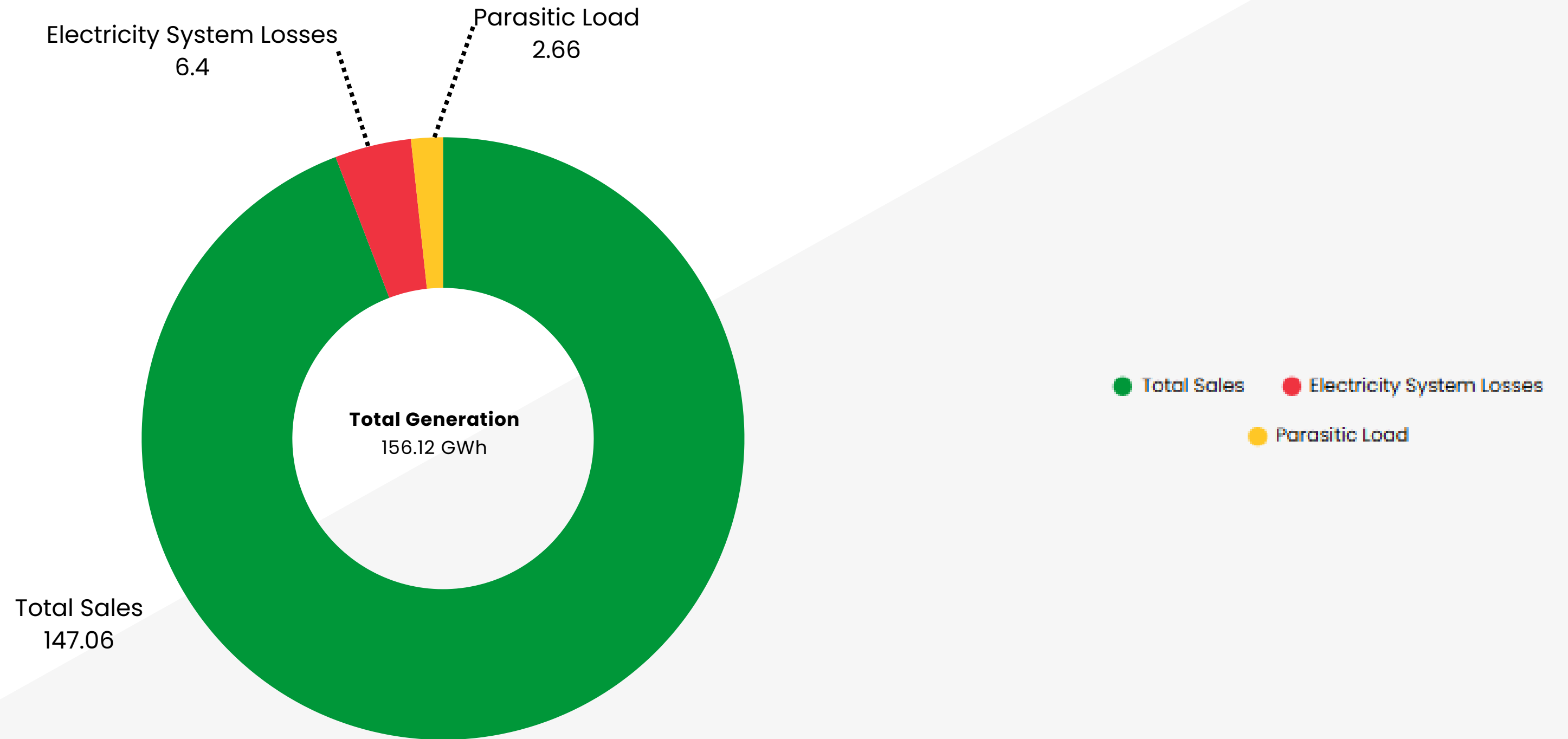
The information presented reflects the most recent year—2022—for which complete and verified energy data are available.

4 - The data presented represents a compilation of data from SKELEC and NEVLEC.



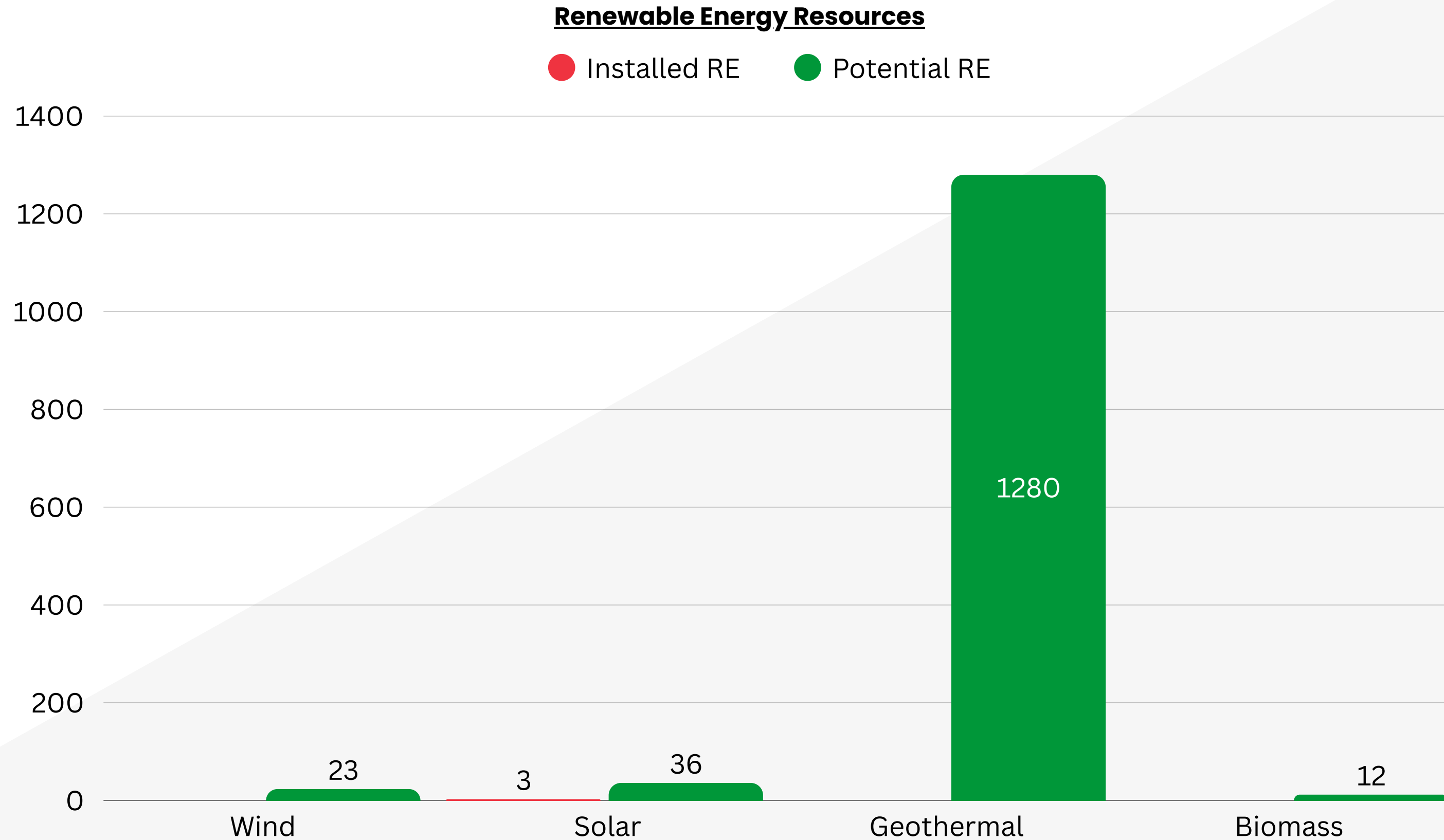
Electricity and Energy Efficiency [9] [10] [11]

Energy Generation (GWh)





Electricity and Energy Efficiency [9] [10] [11]





Electricity and Energy Efficiency

Electricity Tariffs

St. Kitts Electricity Company (SKELEC) [34]

Rate Class	Monthly Consumption/Demand	Tariff (US\$/kWh)	Tariff (US\$/kVA)
General Services	Application for all services and temporary supplies	0.33 (per unit)	
		US\$ 4.07 (Minimum total)	
Residential	First 50 units		
	Next 100 units	US\$ 0.24	
	All units exceeding 150 units	US\$ 0.25	
	Demand Charge - For 15 Amps of fuse rating or part thereof of fuse protecting		US\$ 4.81
Industrial and Commercial	First 50 units	US\$ 0.29	
	Next 75 units	US\$ 0.28	
	Next 125 units	US\$0.26	
	All units exceeding 250 units	US\$ 0.24	
	Demand Charge - Every kVA of demand or part thereof		US\$ 5.55

Nevis Electricity Company (NEVLEC) [35]

Rate Class	Monthly Consumption/Demand	Tariff (US\$/kWh)	Tariff (US\$/kVA)
Residential	First 50 units	US\$ 0.19	
	Next 75 units	US\$ 0.18	
	Above 125 units	US\$ 0.17	
	Standing Charge		
	Consumption up to 120 units	US\$ 2.66	
	Consumption above 120 units up to 250 units	US\$ 4.44	
	Consumption above 250	US\$ 6.66	
	Demand Rate = Energy Charge + Standing Charge		
Industrial and Commercial	Demand Charge (Energy Charge)		US\$ 0.21
	First 50 units		US\$ 0.19
	Next 75 units		US\$ 0.18
	Next 125 x kVA units		US\$ 0.17
	For the remaining units		US\$ 0.16
	Standing Charge (based on cost per kVA = \$4.88) where 1 kVA = 250		
	NOTE: Commercial rates include a fuel surcharge		



Projects in the Pipeline

Programmes

Programme Name	Executing Agencies	Implementing Partner	Funding Awards	Funding Source
SKN100: Achieving a Rapid Decarbonization of the Energy Sector in Saint Kitts and Nevis [36]	Caribbean Centre for Renewable Energy and Energy Efficiency (CCREEE)	United Nations Environment Programme	\$11,120,000 – Co-financing \$3,318,995 – GEF Project Grant \$ 14,438,995 – Total	GEF Trust Fund

Energy Efficiency Projects

There were no Energy Efficiency Projects reported for 2023.

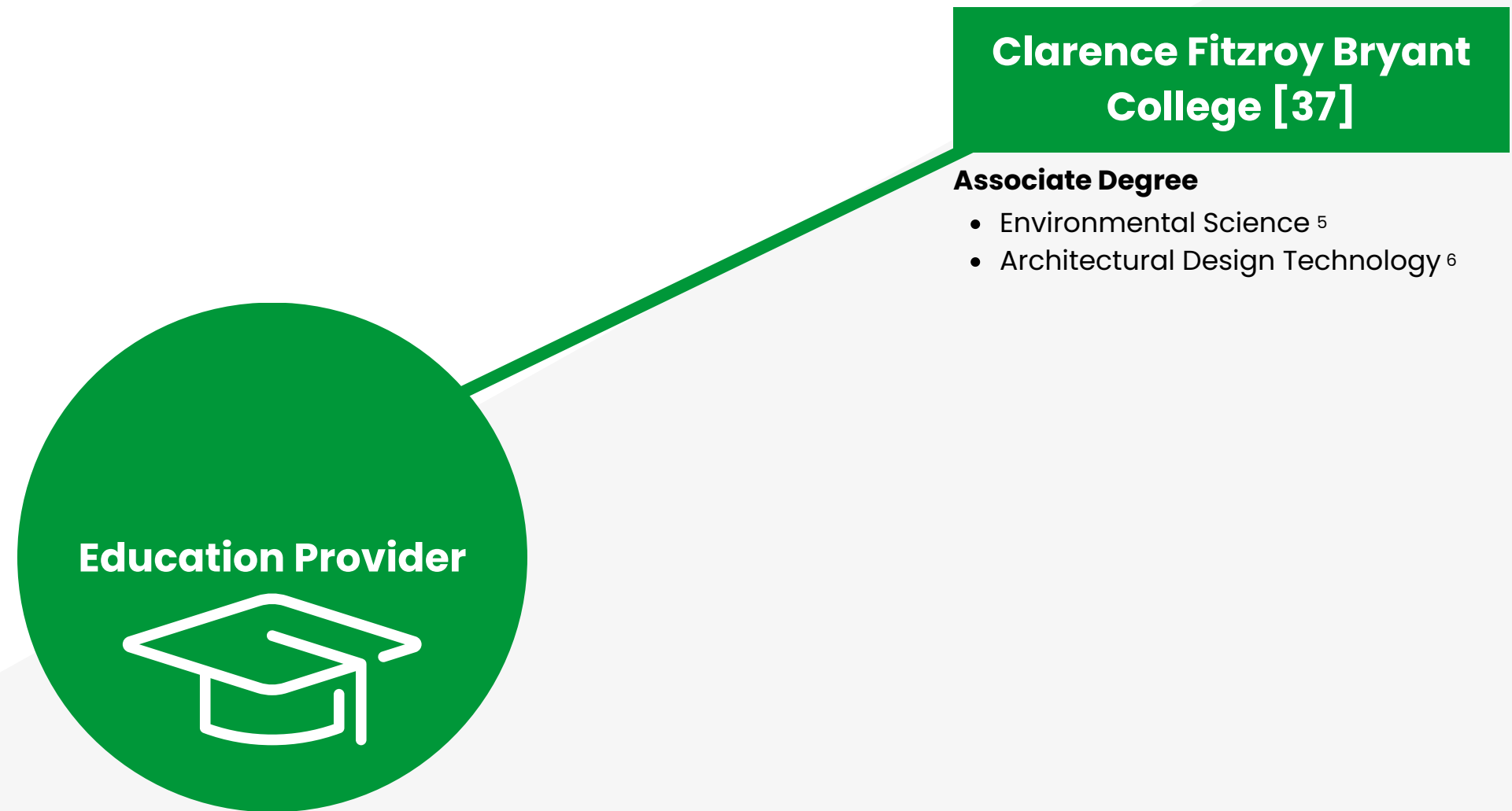
Renewable Energy Projects

There were no Renewable Energy Projects reported for 2023.

Renewable Energy Source	Project Name	System Size (kW)	Implementing Partner	Total Estimated Cost	Funding Source
Solar Photo-Voltaic	Leclanche Solar Farm [36]	35,000 with 44 MWh storage	Leclanche S.A.	\$ 70,000,000	Equity
Geothermal	St. Kitts Nevis Geothermal Energy Project (SKNICE)[36]	50,000	Department of Environment	\$ 505,000,000	Caribbean Development Bank Saudi Fund for Development



Tertiary Programmes Offered



5 - Environmental Science is a Caribbean Advanced Proficiency Examinations (CAPE) subject offered. The CAPE Associate Degree is awarded for the completion of ten (10) CAPE Units.
6 - This programme includes a course on Renewable Energy



Climate Change Framework

Climate Change Policy	St. Kitts and Nevis National Climate Change Policy [8]
	The National Climate Change Adaptation Strategy for Saint Christopher and Nevis [9]
Nationally Determined Contributions Summary [6]	<ul style="list-style-type: none">• Transition to 100% renewable energy in power generation*• Improve efficiency in transmission and distribution of electricity.• Electrification of 2% of the total vehicle• Development of EV infrastructure <p>*35 MW of renewable energy proposed to be sourced from a solar farm that will be constructed through private capital, beyond which, all other interventions are conditional.</p>
Green House Reduction Target	St. Kitts and Nevis pledges a 61% total CO2 emissions reduction against a 2010 base year. [6]
Priority Sectors for NDC	All sectors, with a focus on the energy sector (power generation and transportation) [6]
National Communications (NC) to the UNFCCC	St. Kitts and Nevis' Initial National Communication on Climate Change (2001) [38]
	The Second National Communications Report of St. Christopher and Nevis under the United Nations Framework Convention on Climate Change (2015) [39]



Climate Change Framework

Summary of St. Kitts and Nevis' GHG Emissions and Removals (Gg) for 2018 [39]

	Emissions (Gg CO2 Equivalents)			
Categories	Net CO2	CH4	N2O	NOX
Energy	648.75	0.0260	0.005	0
Industrial Processes and Product Use	3.14	0	0.002	6.051
Agriculture, Forestry, and Other Land Use	191.53	0.6290	0	0
Waste	0.83	0.8624	0.042	0



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