

ST KITTS & NEVIS















ENERGY & ENERGY EFFICIENCY





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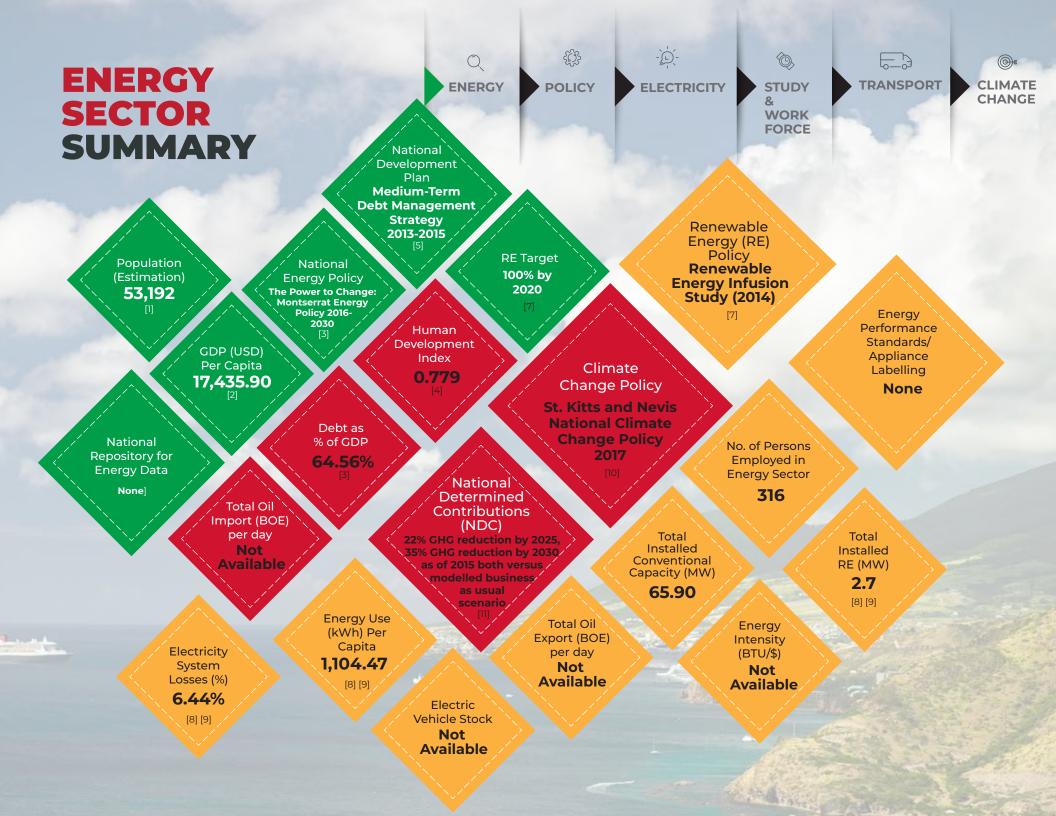


2020 ENERGY REPORT CARD

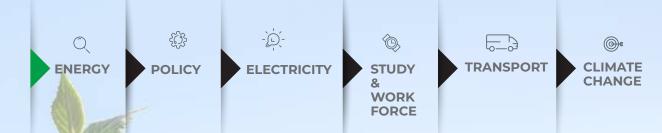
INTRODUCTION

This document presents St. Kitts and Nevis' Energy Report Card (ERC) for 2020. The ERC provides an overview of the energy sector performance in St. Kitts and Nevis. The ERC also includes energy efficiency, technical assistance, workforce, training, and capacity building information, subject to the availability of data.

This ERC includes data and information that was provided by government ministries, agencies, or departments, with responsibility for energy, utilities, and statistical offices. The data collected was supplemented by internet research, author calculations and inferences. This data is a collection from a variety of public sources and, as such, is for general information only. It is not intended for decision-making purposes, and therefore reliance placed on the information herein is strictly at the user's risk.







RENEWABLE ENERGY PERFORMANCE AGAINST TARGETS

3.79%

Base/Current Performance

100%

National Target by 2030

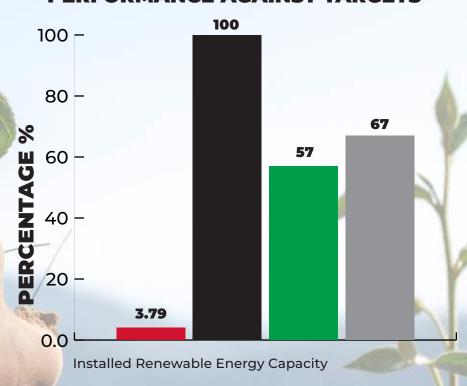
57%

National Target by 2027 (Proposed by CARICOM -CSERMS Report) St. Kitts

67%

National Target (Proposed by CARICOM -CSERMS Report) Nevis

RENEWABLE ENERGY PERFORMANCE AGAINST TARGETS



- Base/Current Performance
- National Target by 2027 (Proposed by CARICOM -CSERMS Report) St. Kitts
- National Target by 2030
- National Target (Proposed by CARICOM -CSERMS Report)
 Nevis

KEY ENERGY STAKEHOLDERS



Government Ministries, Departments and Agencies Ministry of Public Infrastructure, Utilities, Posts, and Urban Development

Department of Environment, Ministry of Agriculture, Marine Resources, Cooperatives, Environment and Human Settlements Independent Power Producer

None

Fuel Suppliers

SOL EC Limited

Delta Petroleum

Electricity Regulator

None

Transportation

Ministry of Tourism, Transport and Ports

Electric Utility

St. Kitts Electricity Company Ltd. (SKELEC)

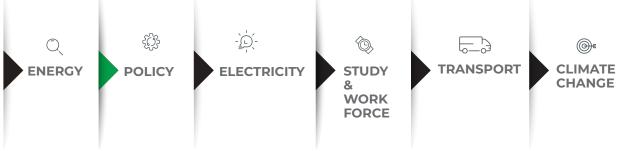
Nevis Electricity Company Ltd. (NEVLEC)

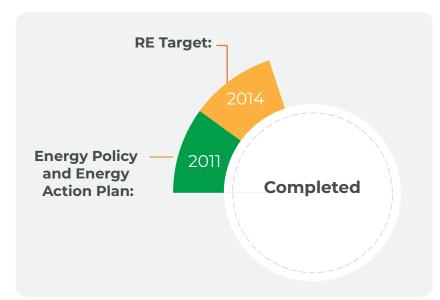
Other

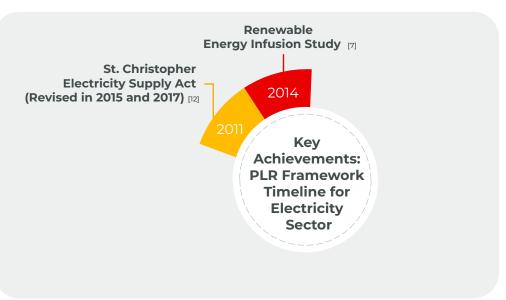
Ministry of Sustainable Development

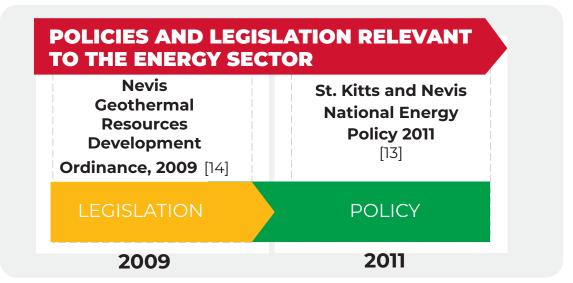
Ministry of Environment and Cooperatives

POLICY, LEGAL AND REGULATORY (PLR) FRAMEWORK



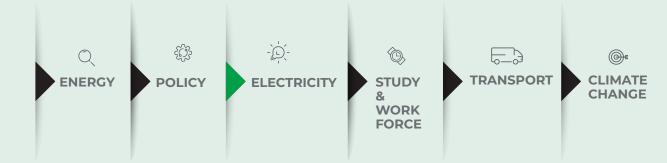






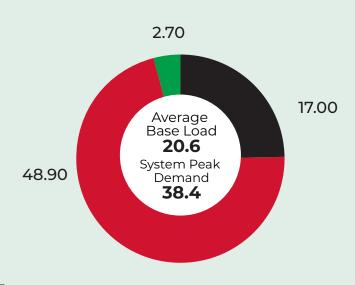
Policies and Legislation Relevant to the Transportation Sector No data was provided for transportation sector for 2020.

ELECTRICITY & ENERGY EFFICIENCY



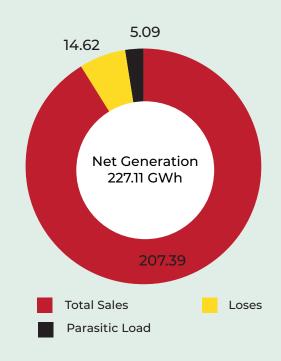
INSTALLED CAPACITY (MW)

ENERGY CONSUMPTION (GWh)

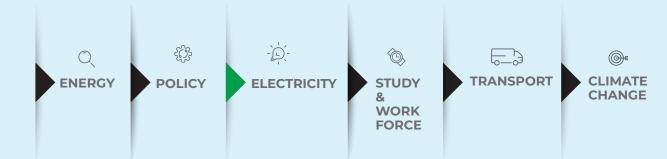


- Installed Conventional Capacity Electric Utility (MW) HFO
- Installed Conventional Capacity Electric Utility (MW) DIESEL
- Total Installed RE Capacity (MW)

THERE IS ALSO 188.12MW OF DISTRIBUTED RE ACCOUNTING FOR 17%



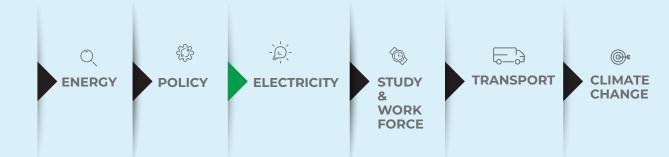




ELECTRICITY TARIFFS (SKELEC)

RATE CLASS	MONTHLY CONSUMPTION /DEMAND (kWh)	TARIFF / (US\$/kWh)	US\$/kVA
GENERAL SERVICES	Application for all services and temporary supplies	0.34 (PER UNIT) 4.07 (MINIMUM TOTAL)	
RESIDENTIAL	First 50 Units	0.22	
	Next 100 units	0.24	
	All units exceeding 150 units	0.25	
	Demand Charge: For 15 Amps of fuse rating or part thereof of fuse protecting service		4.8
INDUSTRIAL AND COMMERCIAL	First 50 Units	0.30	
	For next 75 units	0.28	
	For next 125 Units	0.27	
	All units exceeding 250	0.24	
	Demand Charge: Every kvA of demand or part thereof		5.56

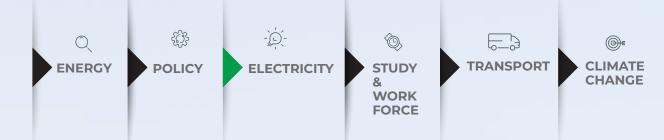




ELECTRICITY TARIFFS (NEVLEC)

RATE CLASS	MONTHLY CONSUMPTION /DEMAND (kWh)	TARIFF / (US\$/kWh)	
	For first 50 units \$0.188/unit	0.07	
RESIDENTIAL	For the next 75 units \$0.181/unit (for those units only)	0.07	
	For above 125 units \$0.173/unit (for those units only)	0.06	
	For the first 50 units \$0.191/unit	0.07	
COMMERCIAL	For the next 75 units \$0.184/unit	0.07	
COMMERCIAE	For the next 125 units \$0.177/unit	0.07	
	For the remaining units \$0.162/unit	0.06	

PROJECTS IN THE PIPELINE



TECHNICAL ASSISTANCE PROJECTS

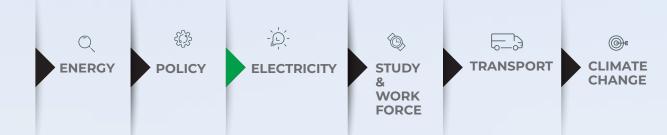
ENERGY EFFICIENCY PROJECTS

DONOR FUNDING AND TECHNICAL ASSISTANCE LANDSCAPE	DONOR ORGANIZATION & BANKS
GRANTS AND LOANS	CARIBBEAN DEVELOPMENT BANK
GRANTS	UNITED ARAB EMIRATES

ENERGY EFFICIENCY INITIATIVE	CONSUMPTION (kWh) ASK IF ESTIMATED OR MEASURED	ENERGY EFFICIENCY LEGISLATION OR REGULATIONS	ENERGY SERVICE COMPANIES (YES/NO)	CHANGE IN OLD/EXISTING INFRASTRUCTURE EXPECTED IN UPCOMING CALENDAR YEAR (NUMBER/SIZE)
STREET LIGHTING		9867476		8900
PUBLIC BUILDINGS	CREEBC	YES		NOT AVAILABLE

The CARICOM Regional Energy Efficiency Building Code (CREEBC) is recommended but not mandatory in St. Kitts and Nevis.

PROJECTS IN THE PIPELINE



RENEWABLE ENERGY PROJECTS

RENEWABLE ENERGY SOURCE	RESOURCE AND PROJECTS CAPACITY	DEVELOPMENT PARTNER	TOTAL ESTIMATED COST	FUNDING SOURCE	
SOLAR PHOTO- VOLTAIC	35 MWh WITH 44 MWh STORAGE	LECLANCHÉ SA	US\$70 MILLION	IPP	
WIND ENERGY	6.6MW	LECLANCHÉ SA	UNAVAILABLE	IPP	
GEOTHERMAL ENERGY	30 MW (NEVIS) 15 - 20 MW (ST. KITTS)	NEVIS RENEWABLE ENERGY INTERNATIONAL (NEVIS) TERANOV (ST. KITTS)	UNAVAILABLE	IPP (NEVIS) COMBINATION OF GRANTS, LOANS AND EQUITY (ST. KITTS)	
OTHER (DESALINATION PLANT - SOLAR)	75 KW	MASDAR	UNAVAILABLE	GRANT	

TERTIARY PROGRAMMES OFFERED





ASSOCIATE DEGREE

ELECTRICAL & ELECTRONIC ENGINEERING TECHNOLOGY

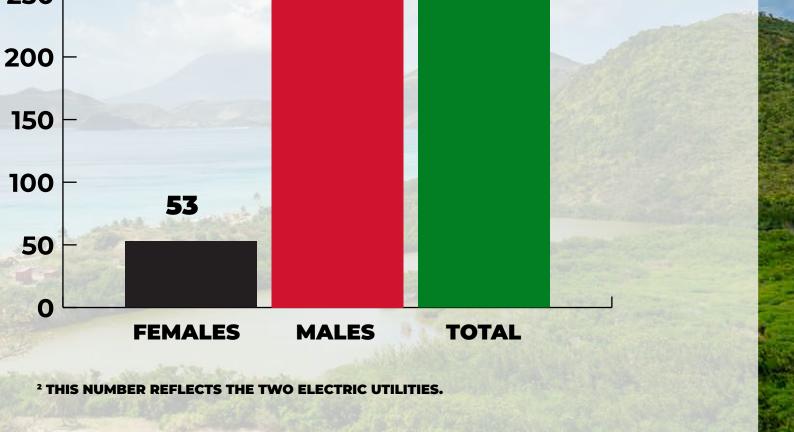
PERSONS ENROLLED PERSONS GRADUATED

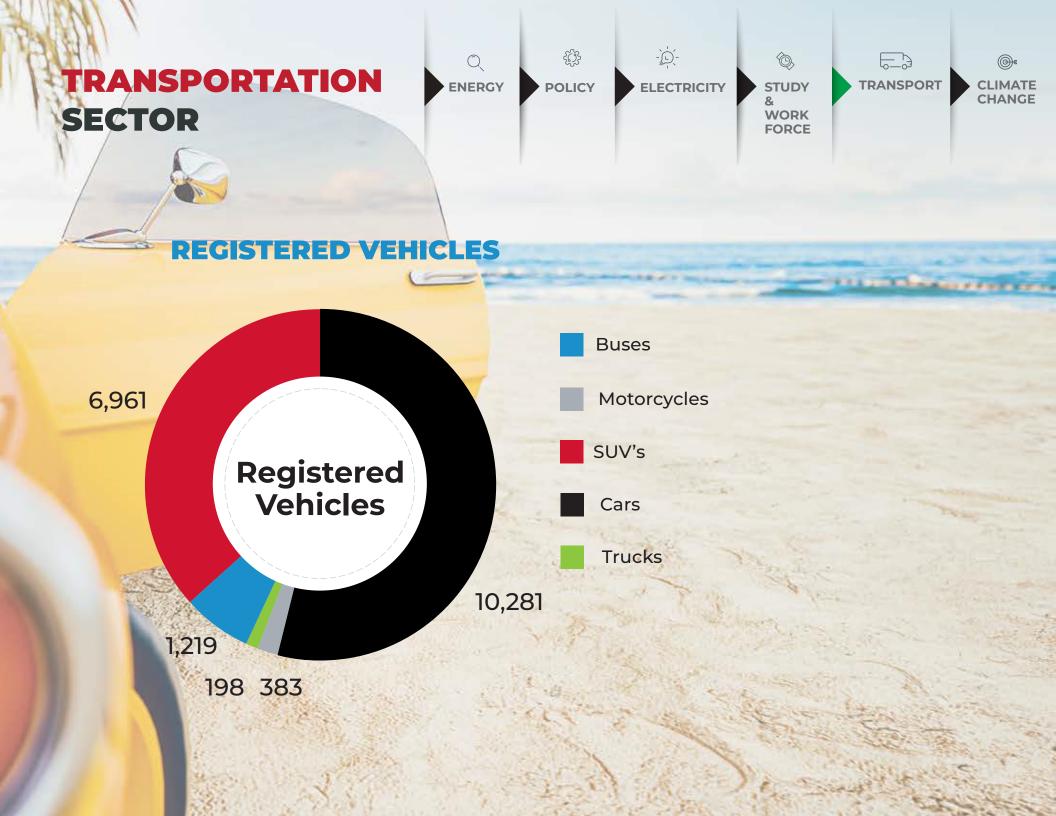
92

67

https://cfbc.edu.kn/electrical-electronics-engineering-technology/

£ (D) 0 WORKFORCE CLIMATE CHANGE **TRANSPORT ENERGY POLICY ELECTRICITY STUDY** WORK FORCE 350 **316** 300 263 **250**





CLIMATE CHANGE FRAMEWORK













ST. KITTS AND NEVIS NATIONAL CLIMATE CHANGE POLICY 2017 [10]

NATIONAL DETERMINED CONTRIBUTIONS:

22% GHG reduction by 2025, 35% GHG reduction by 2030 as of 2015 [11]

EMISSIONS REDUCTION TARGET:

22% GHG reduction by 2025, 35% GHG reduction by 2030 as of 2015 [11]

PRIORITY SECTORS FOR NDCs

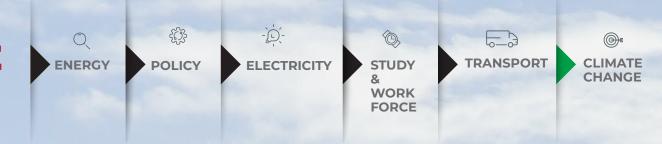
Transport and Electricity [11]

NATIONAL COMMUNICATIONS (NC) TO THE UNFCCC:

First National Communication (2011) [15]

Second National Communication (2016) [16]

CLIMATE CHANGE FRAMEWORK [16]



SUMMARY OF ST.KITTS AND NEVIS GHG EMISSIONS [12]

EMISSIONS (Gg* CO₂ EQUIVALENT)

CATEGORIES	NET CO ₂	CH ₄	N20	NO _x	СО	NMVOCS
ENERGY	~250					
AGRICULTURE / FORESTRY / FISHING		>500	>500	>500	~1250	

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[11] "St Kitts and Nevis National Climate Policy," The Department of Environment, Ministry of Agriculture, Marine Resources, Cooperatives, Environment and Human Settlement, Government of St Kitts and Nevis, 2017.

[12] The Government of St Kitts and Nevis, "Chapter 16.01 Saint Christopher Electricity Supply Act Last Revised 2017," 2017. [Online]. Available: https://aglcskn.info/documents/Act17TOC/Ch%2016.01%20-Saint%20Christopher%20Electricity%20Supply%2 OAct.pdf. [Accessed 18 6 2021].

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ments/Ord02and09TOC/Ch-05_03N-Nevis-Geothe rmal-Resources-Development-Ord.pdf. [Accessed 18 6 2021].

[15] "St Kitts-Nevis Initial National Communication," The Government of St Kitts and Nevis, [Online]. Available: https://unfccc.int/resource/docs/natc/kitncl.pdf.. [Accessed 13 July 2021].

[16] Droiterre Inc. and Associates, "The Second National Communication Report of St. Christopher & Nevis," October 2015. [Online]. Available: https://unfccc.int/sites/default/files/resource/Knanc2.pdf. [Accessed 13 July 2021].