

ST. VINCENT AND THE GRENADINES

ENERGY REPORT CARD (ERC) FOR 2021



INTRODUCTION

This document presents St. Vincent and the Grenadines' Energy Report Card (ERC) for 2021.

The ERC provides an overview of the energy sector performance in St. Vincent and the Grenadines. 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.



National Economic and Social Development Plan 2013-2025^[5]

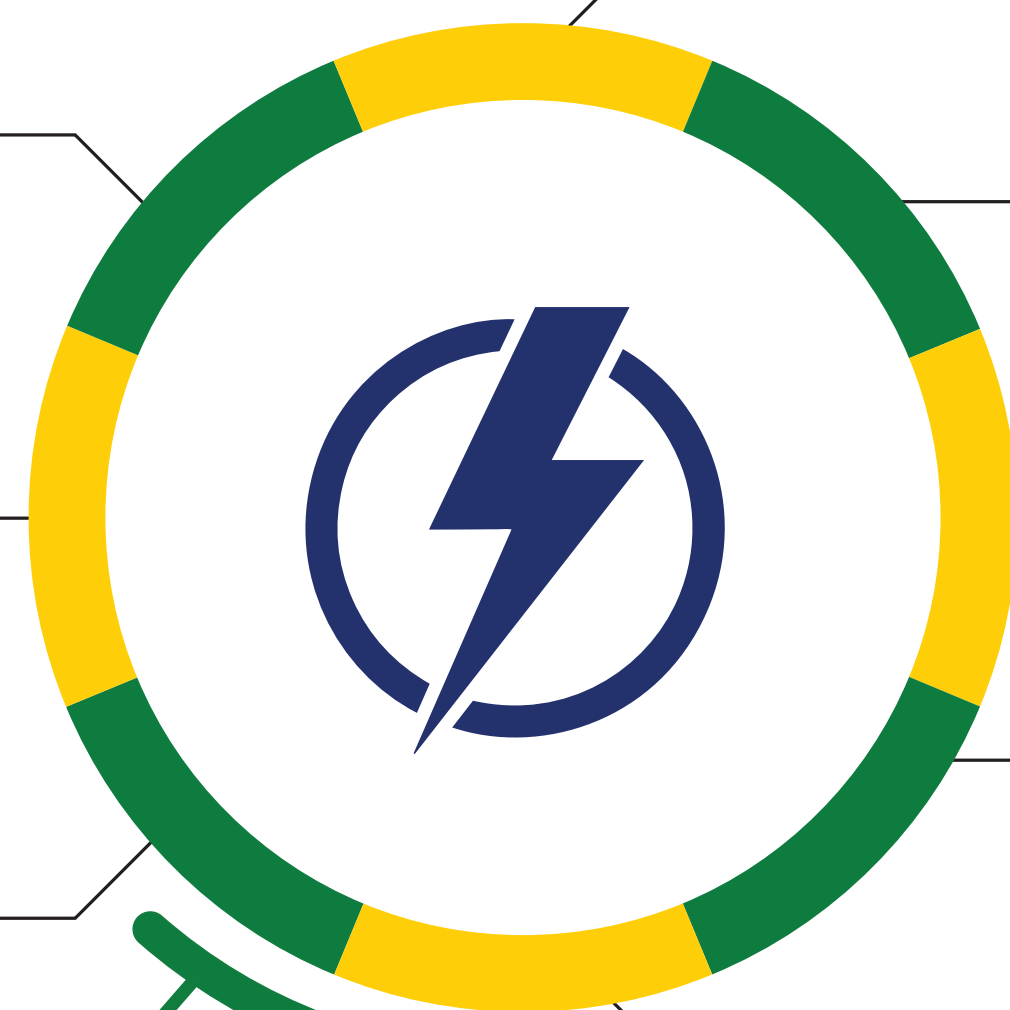
National Development Plan/
Overall Country Development Strategy

St. Vincent and the Grenadines Sustainable Energy for SVG: The Government's National Energy Policy^[6]

National Energy Policy

None

Renewable Energy (RE) Policy



110,295^[1]

POPULATION (ESTIMATED)



\$7,996^[2]

GDP (USD) PER CAPITA



89.35%^[3]

Debt as % of GDP



0.751^[4]

Human Development Index



60% by 2025^[7]

RE Target



National Determined Contributions (NDC)

60% by 2025^{3[10]}



ENERGY PERFORMANCE STANDARDS/APPLIANCE LABELLING
St. Vincent and the Grenadines voluntarily adopts international label standards. A local standard has not been established^[7]



No. of Persons Employed in Energy Sector

764



Total Installed Conventional Capacity (MW)¹

44.88^[8]



Total Installed RE (MW)

9.39^[8]



Electricity System Losses (%)

6.67%^[8]



Energy Use (kWh) Per Capita

1,246.91^[8]



Fuel and Oil Imports as % of GDP

Not Available



Oil Imports as % of GDP

Not Available



Electric Vehicle Stock

5^[7]



Climate Change Policy

National Climate Change Policy of Saint Vincent and the Grenadines^[9]



Total Oil Import (BOE) per day

Not Available



Total Oil Export (BOE) per day

Not Available



Energy Intensity (BTU/\$)

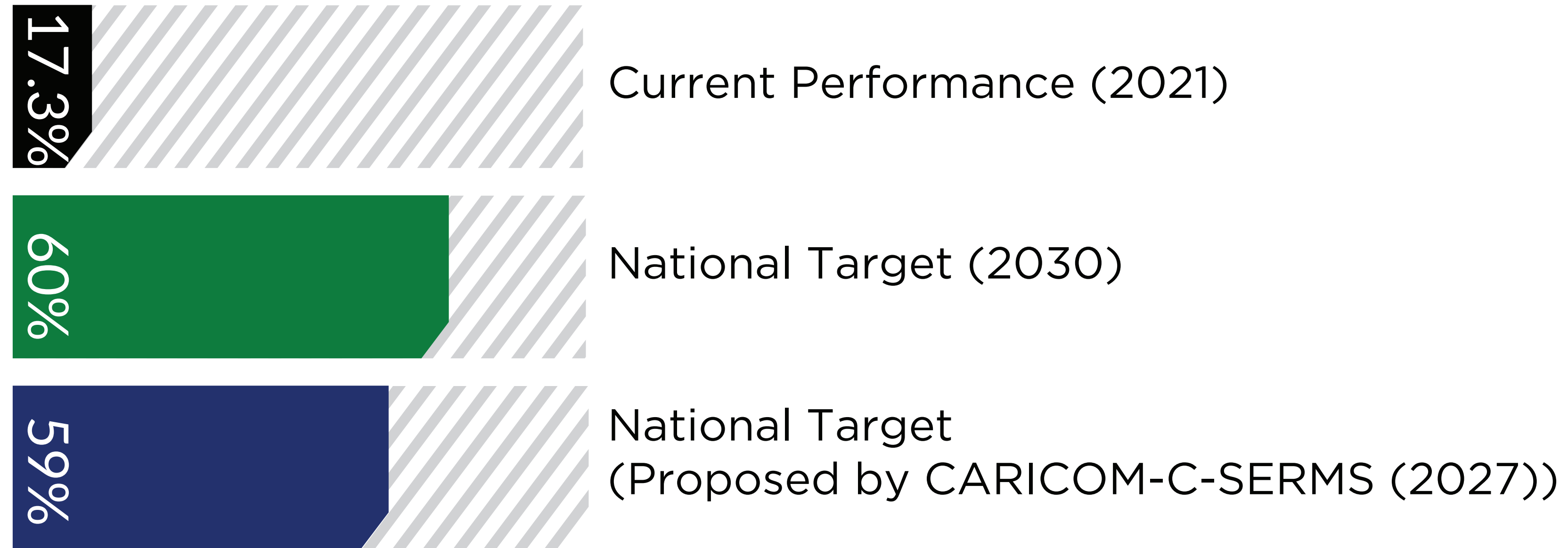
Not Available

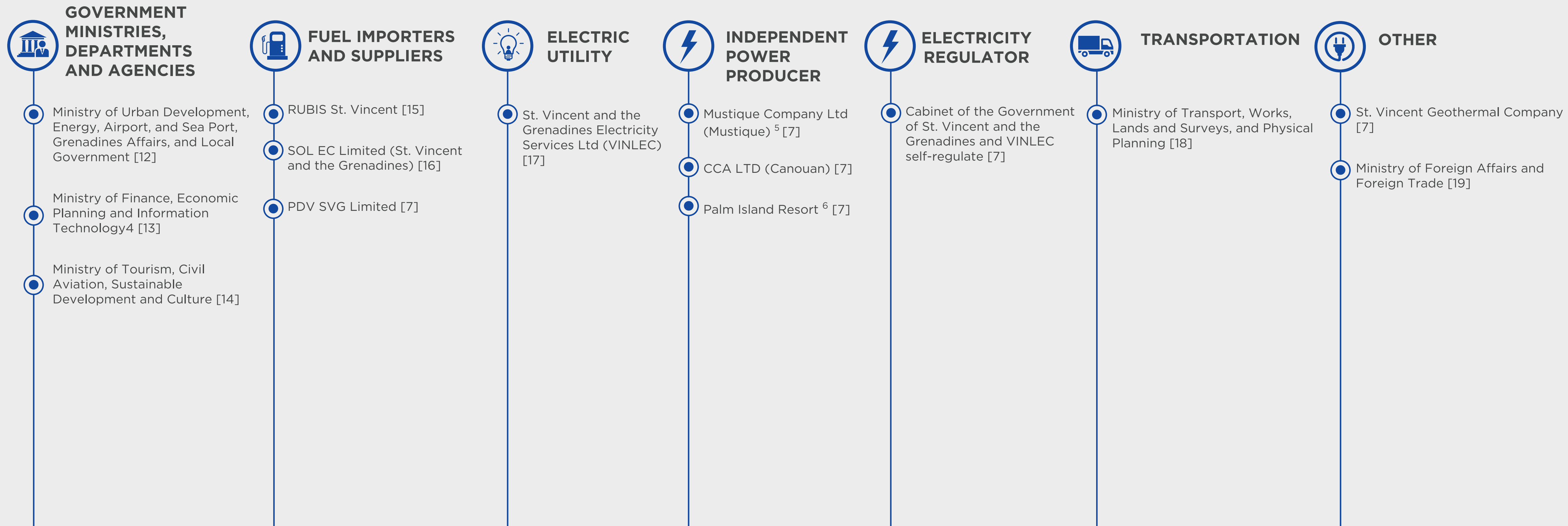


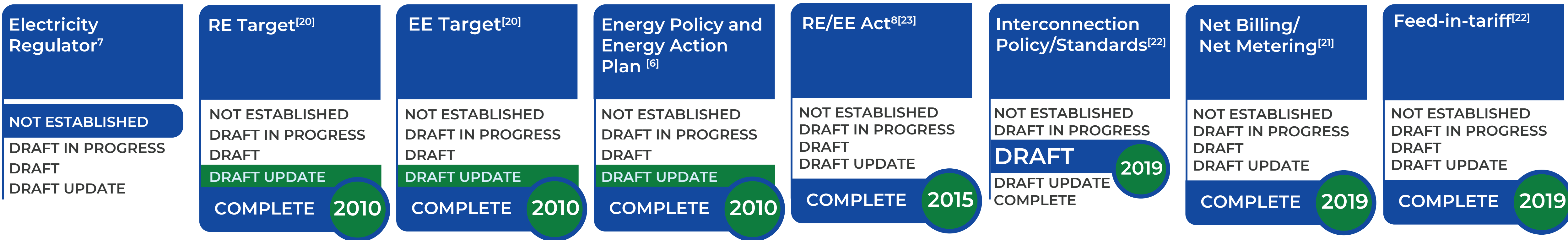
National Repository for Energy Data

St. Vincent and the Grenadines Energy Unit^[7]

Performance Against Targets







7. Cabinet of the Government of St. Vincent and the Grenadines and VINLEC self-regulate
8. Geothermal Resource Development Act (2015)

Policies and Legislation Relevant to the Energy Sector

KEY ACHIEVEMENTS

PLR Framework Timeline For Electricity Sector

1979	Electricity Supply Act (ESA) ^[7]
2009	Electricity Supply Act Chapter 404 ^[7]
2009	Electricity Supply (Agreement) Act 405 ^[7]
2017	Integrated Resource Plan ^[24]





LEGISLATION

Customs Controls and Management Act No. 14 of 1999 [26]

Value Added Tax Act, 2006 [27]

Excise Tax Act Chapter 430 No 16 of 2007 [28]

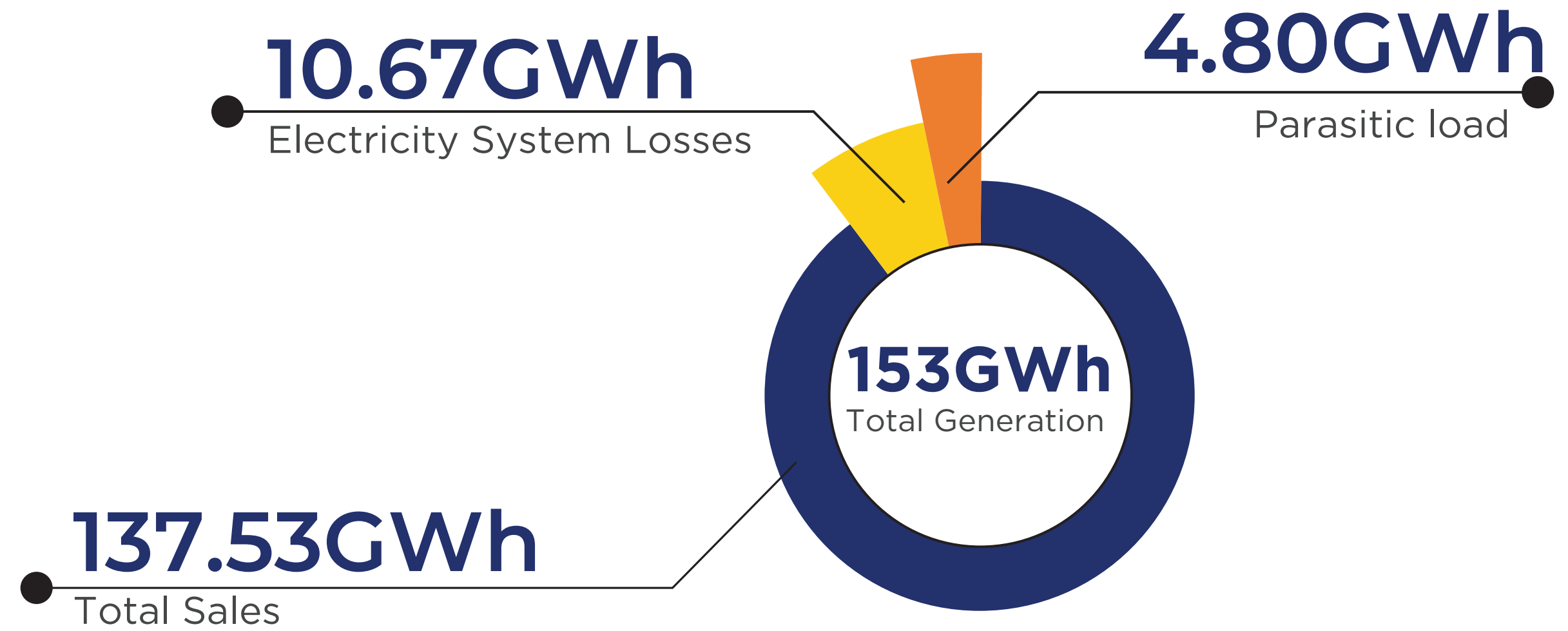
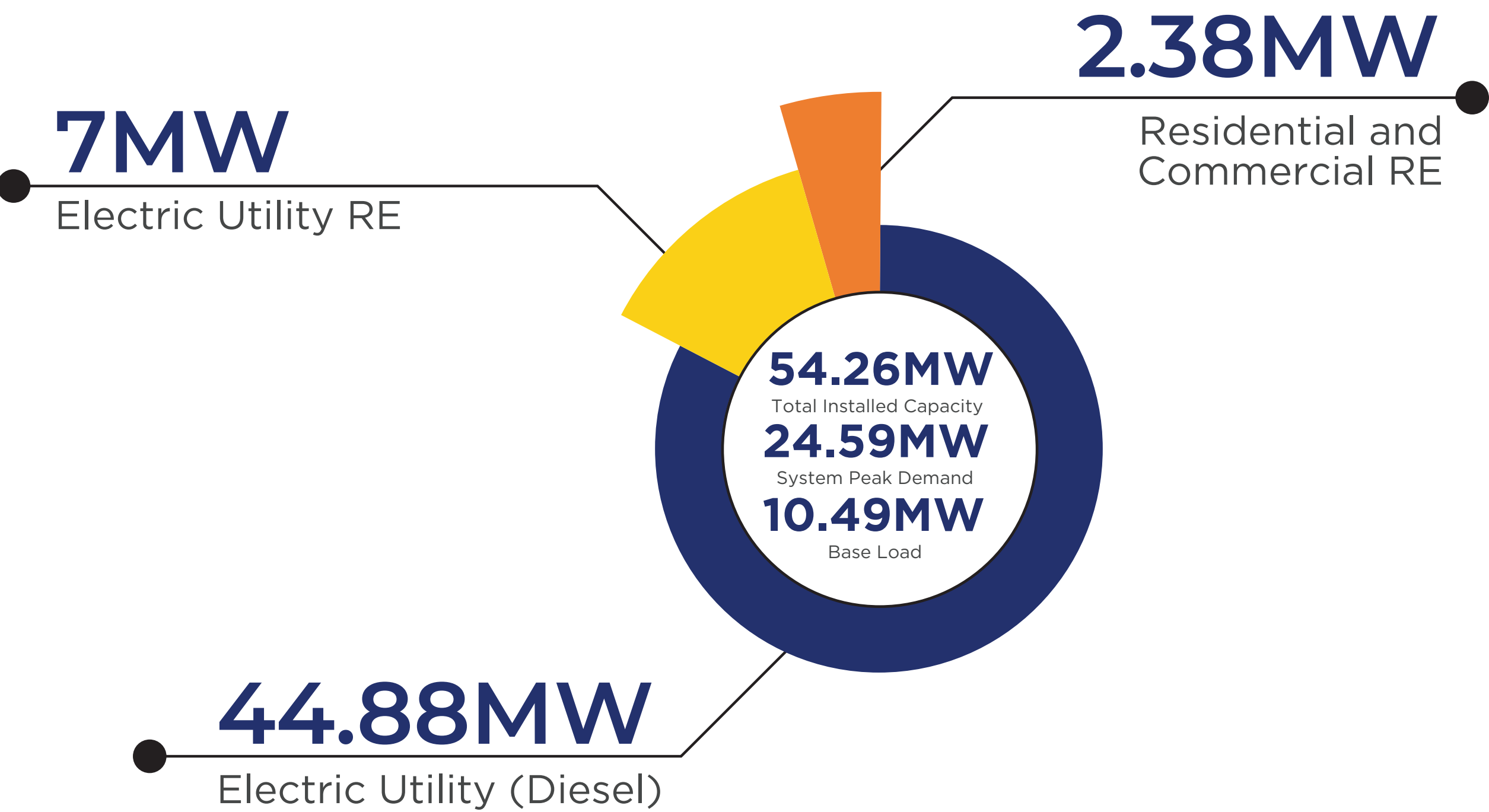


POLICIES

Electric Vehicle Policy (Draft) [7]

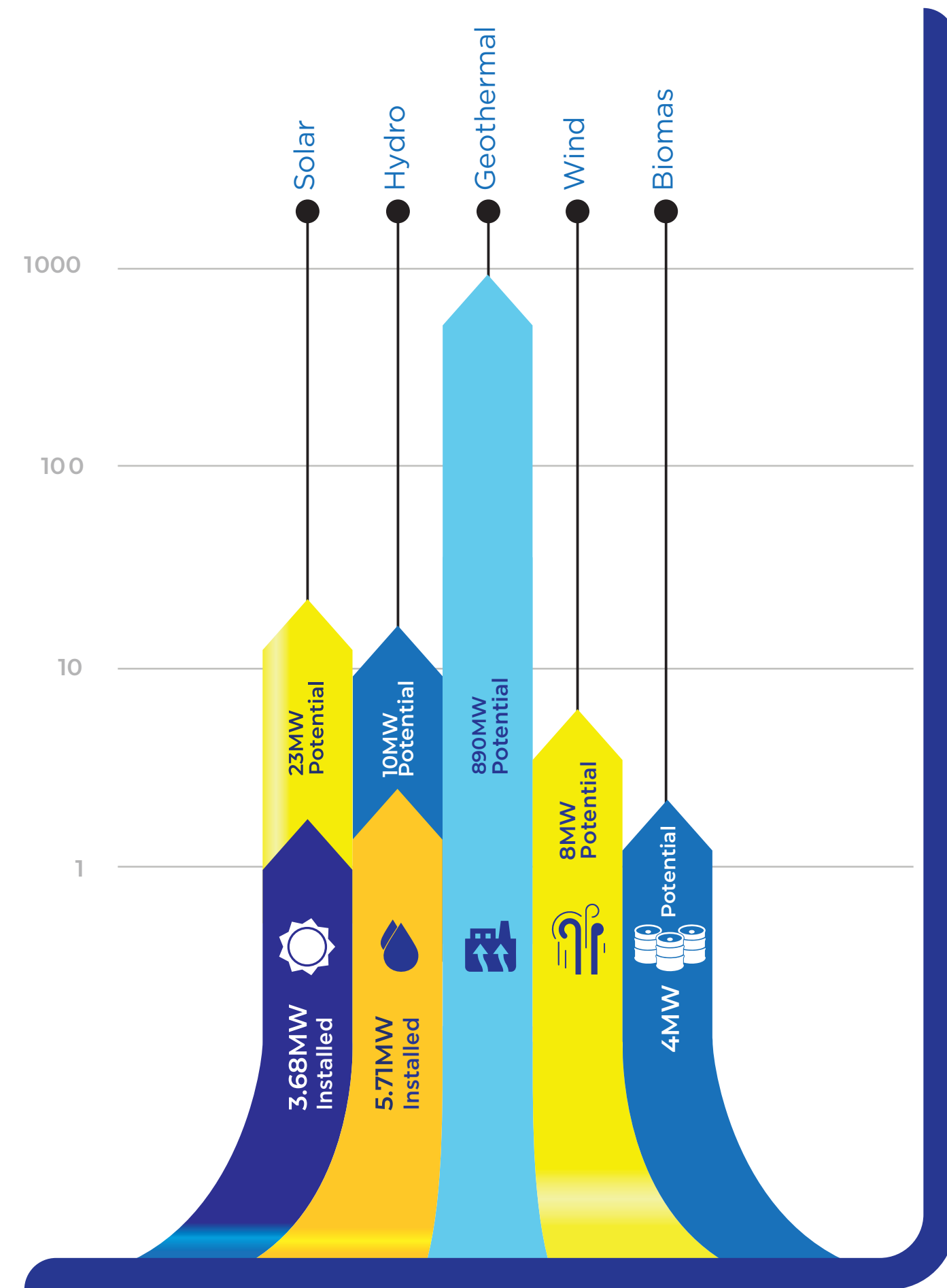
Installed Capacity (MW)

Energy Consumption (GWh)



9. The energy data presented represents the islands of St. Vincent, Bequia, Union Island, Mayreau and Canouan 2019

Renewable Energy Capacity (MW)

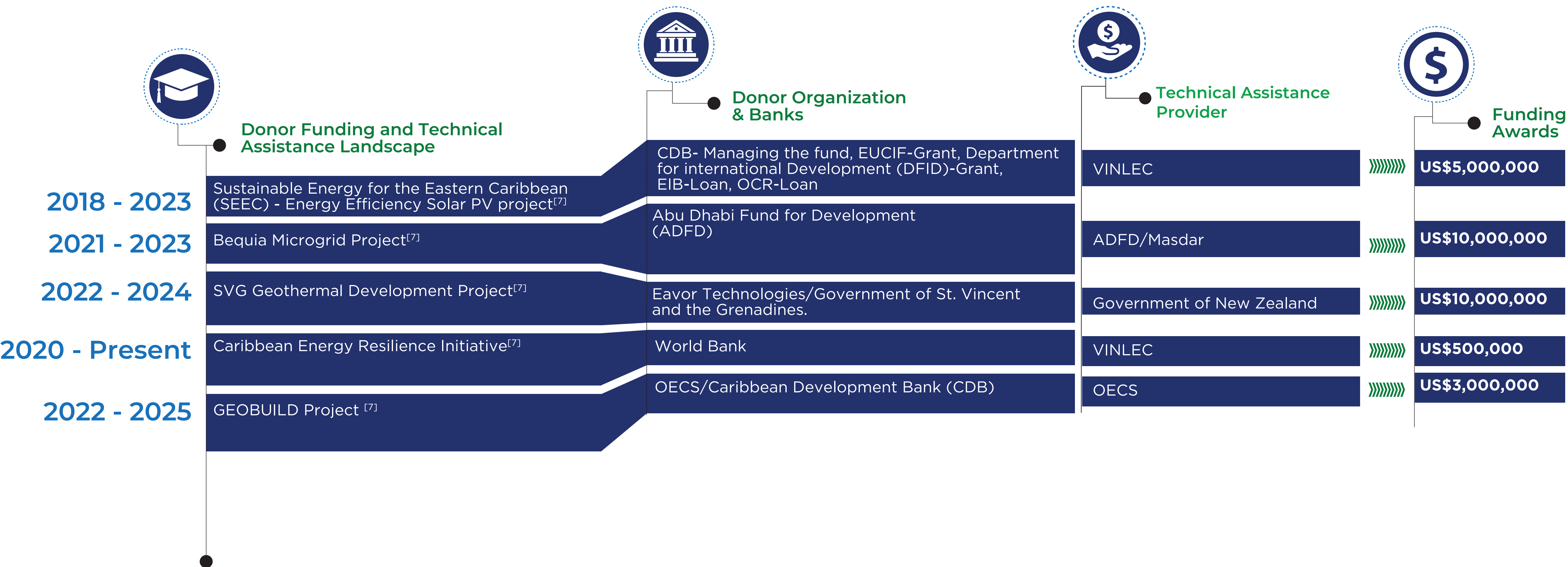


Electricity Tariffs¹⁰

	CONSUMPTION (kWh)	TARIFF INCLUDING SURCHARGE / (US\$/kWh)
DOMESTIC	0 - 17	1.85 ¹¹
	18 - 50	0.16
	Over 50	0.19
COMMERCIAL	0 - 27	5.55 ¹²
	28 - 150,000	0.20
	150,001 - 200,000	0.19
	More than 200,000	0.18
INDUSTRIAL	0 - 150,000	0.16
	150,001 - 200,000	0.15
	More than 200,000	0.14
STREETLIGHTS	All Units	0.21

10. A monthly fuel surcharge rate is applied to the final monthly bill for all rate classes and 16% VAT on all units consumed over 150 kWh for domestic customers while 16% VAT on all units for all other rate classes.
11. Rate per month
12. Rate per month

Technical Assistance Projects










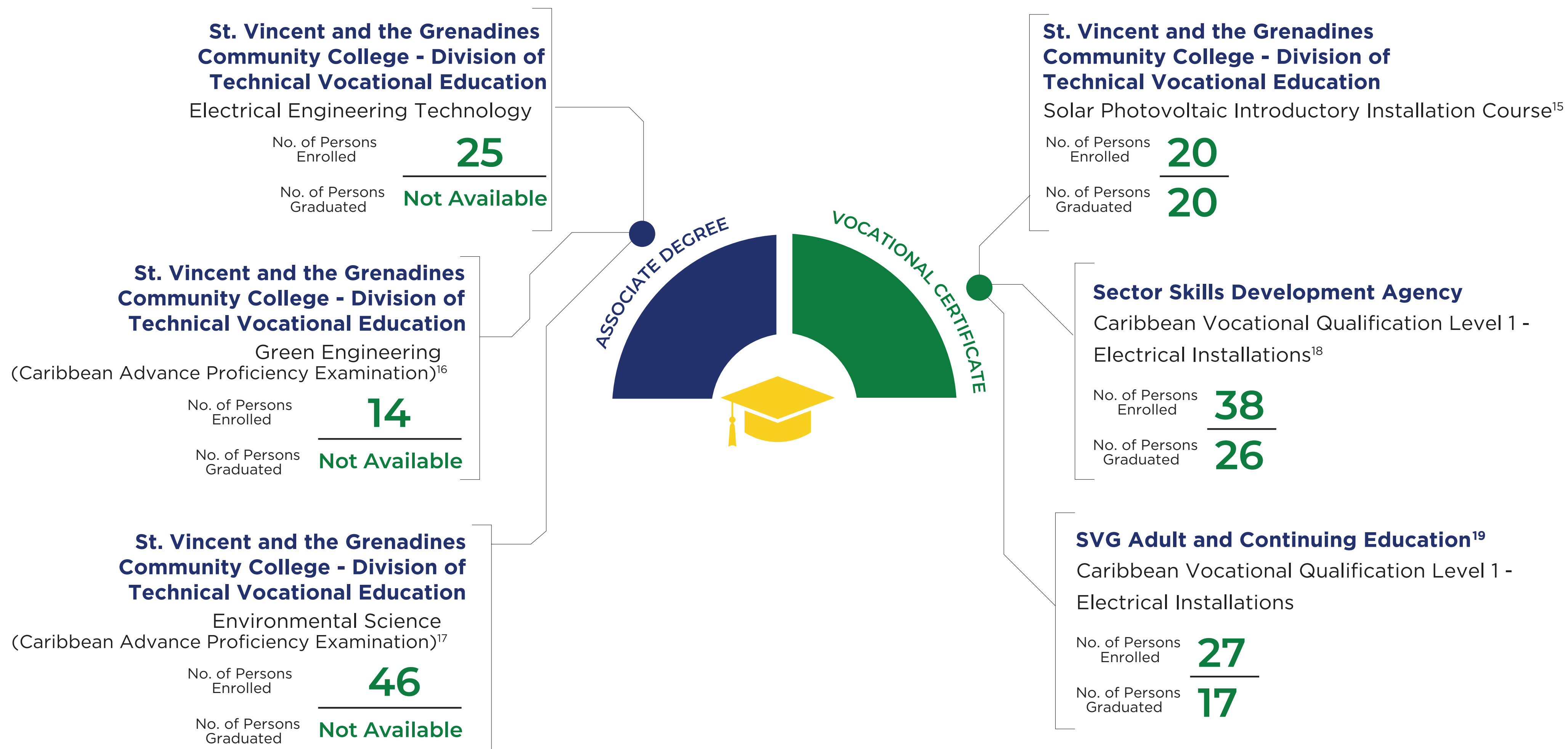
Energy Efficiency Projects

ENERGY EFFICIENCY	STREET LIGHTING	PUBLIC BUILDINGS
Old/Existing Infrastructure (Number/Size)	0 High Pressure Sodium (HPS) streetlights remaining in service. All have been replaced with LEDs. ^[7]	Buildings deemed eligible for the implementation of EE measures/retrofits. Project is currently ongoing. ^[7]
Energy Audits (Yes/No)		Yes
Change in Old/Existing Infrastructure Expected in Upcoming Calendar Year (Number/Size)	2021 ¹³	

13. This project was completed in 2021 as a component of SEEC.

Renewable Energy Projects

Project Type	Ownership	Capacity	Development Partner	Cost (USD)	Funding Source
 SOLAR PHOTO-VOLTAIC ^[7]	Public	6.2MW	Not Available	Not Available	Government of SVG
 SOLAR PHOTO-VOLTAIC ^[7]	Public	30kW	Caribbean Community Climate Change Centre	Not Available	UNEP/GEF
 SOLAR PHOTO-VOLTAIC ^[7]	Public	40kW	Caribbean Community Climate Change Centre	Not Available	UNEP/GEF
 SOLAR PHOTO-VOLTAIC ^[7]	Public	600kW Argyle Solar Expansion ¹⁴	N/A	Not Available	CDB
 SOLAR PHOTO-VOLTAIC ^[7]	Public	1.2MW	ADFD	\$12,000,000	ADFD
 GEOTHERMAL ^[7]	PPA	10MW	Eavor Technologies/Government of St. Vincent and the Grenadines.	\$10,000,000	Eavor Technologies/Government of St. Vincent and the Grenadines.
 HYDRO ^[7]	Utility Owned	7MW	VINLEC	Not Available	VINLEC

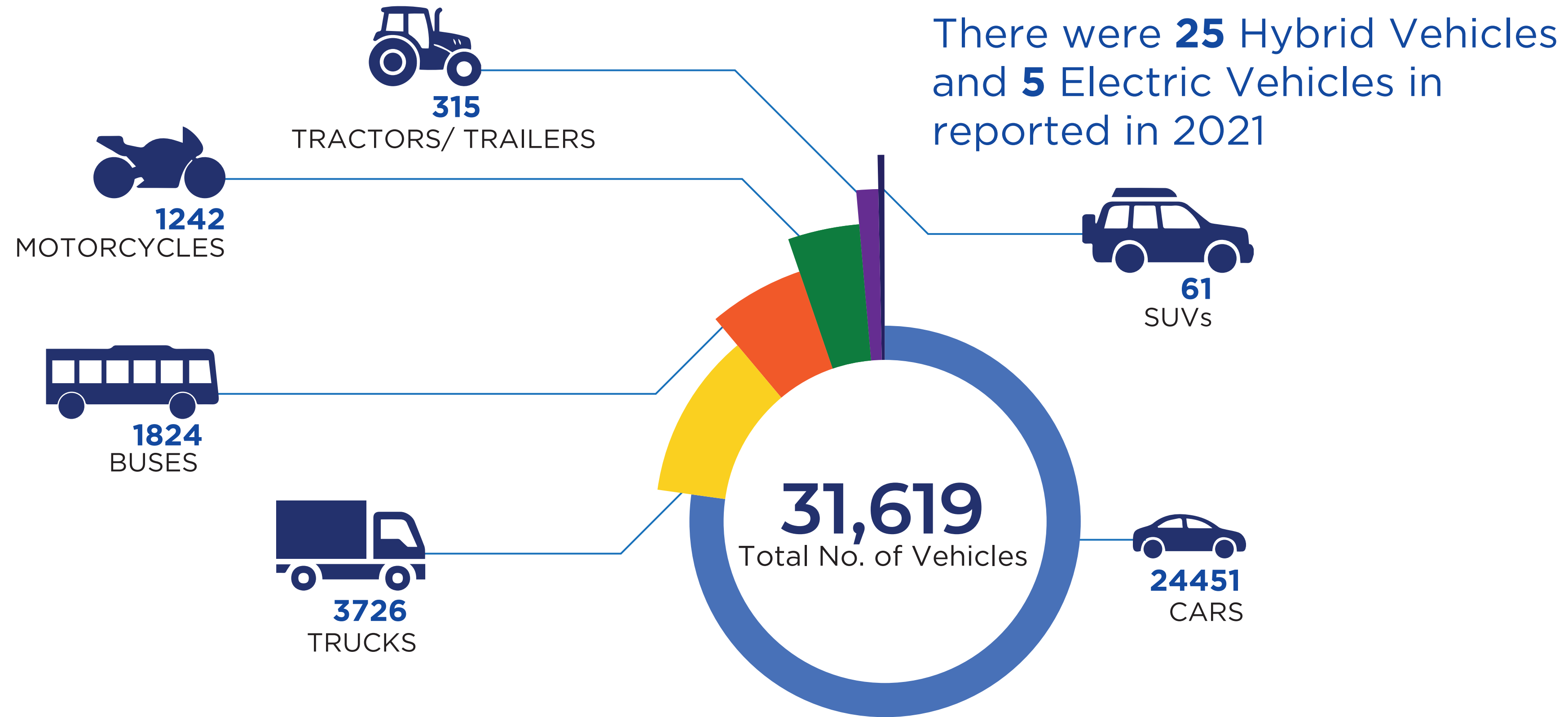


15. The Solar Photovoltaic Introductory Installation Course was a five (5) week course.
16. A course offered to allow the fulfilment of an Associate Degree.
17. A course offered to allow the fulfilment of an Associate Degree.
18. Offered at the Kingstown, Georgetown, Capden, and Barrouallie Technical Institutes.
19. A division of the Ministry of Education

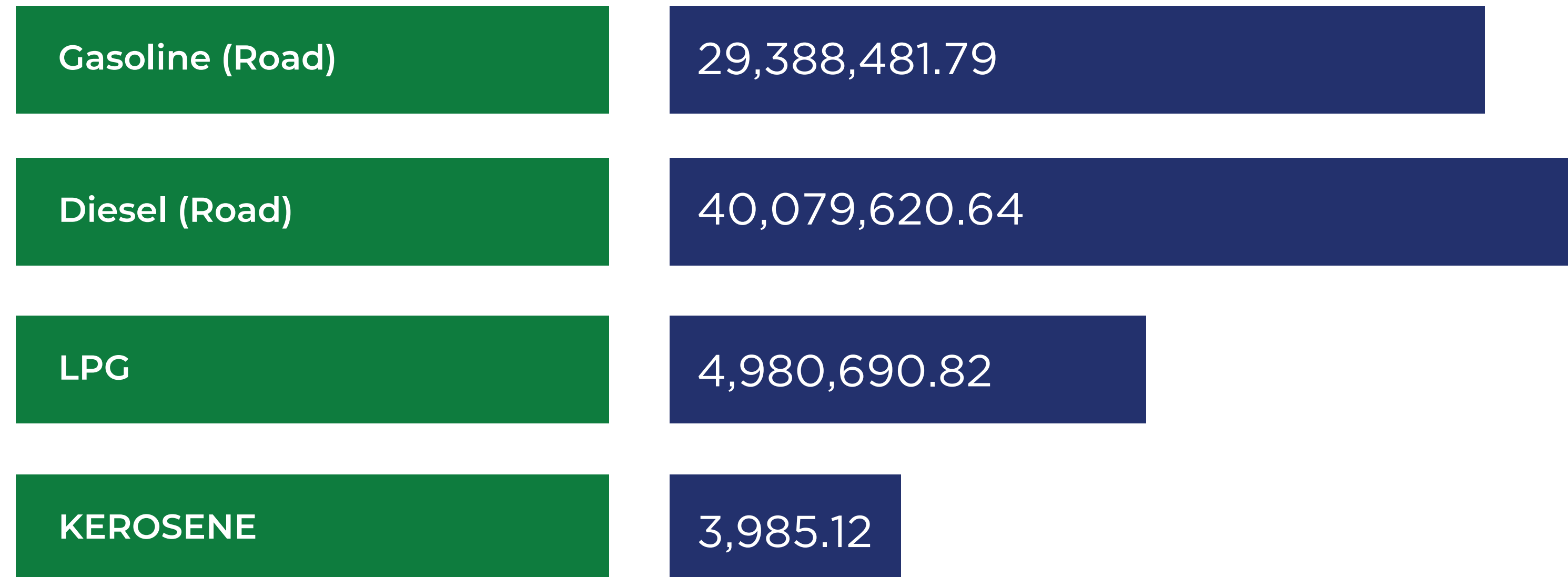
Persons Employed in the Energy Sector



Registered Vehicles



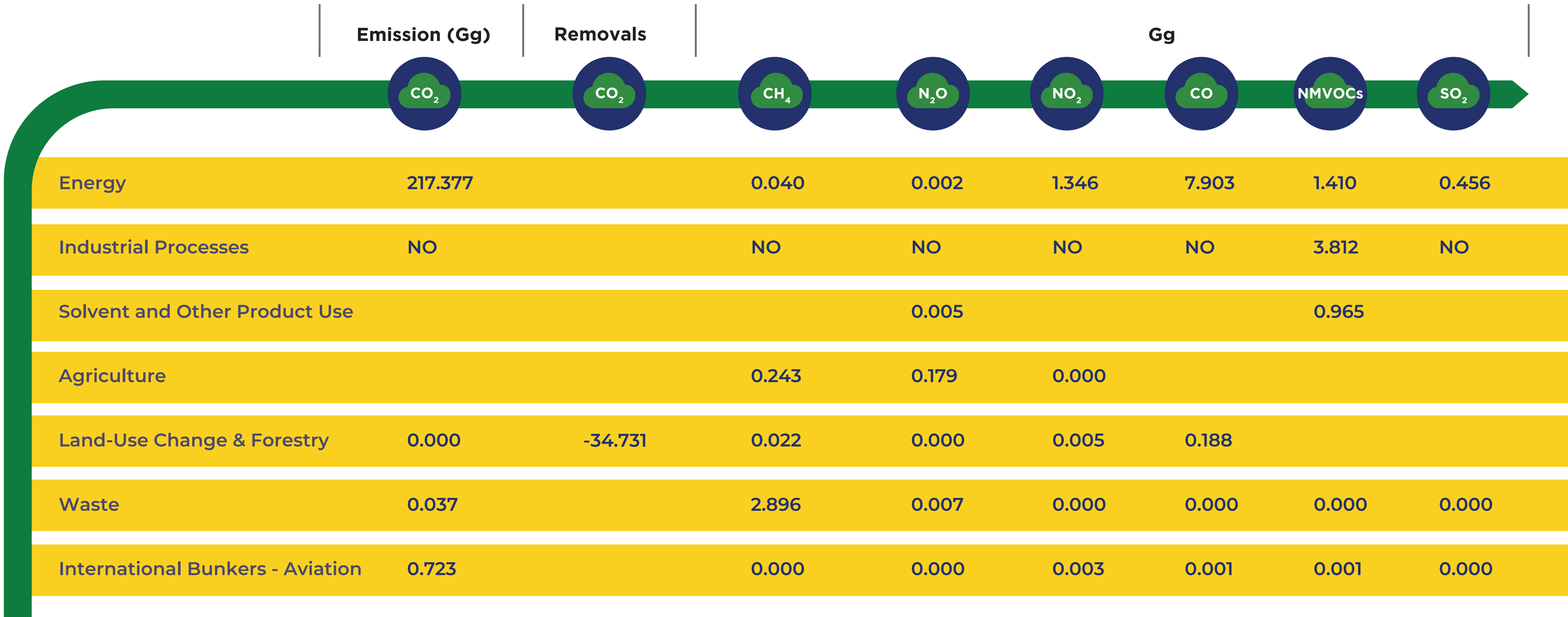
Fuel Types Used for Transportation (kg)



National Climate Change Policy of Saint Vincent and the Grenadines [9]

Climate Change Policy	National Climate Change Policy of Saint Vincent and the Grenadines [9]
National Determined Contributions	60% by 2025 ²⁰ [10]
Emissions Reduction Target	An unconditional, economy-wide reduction in greenhouse gas (GHG) emissions of 22% compared to its business as usual (BAU) scenario by 2025. [10]
Priority Sectors for NDC ^[10]	Energy (including domestic transport) Industrial processes and product use Agriculture Land use, land use change and forestry Waste
National Communications (NC) to the UNFCCC	Initial National Communication on Climate Change St. Vincent and the Grenadines [34] Second National Communication on Climate Change Saint Vincent and the Grenadines [35]

Summary of St. Vincent and the Grenadines' Greenhouse Gas Inventory for 2004 ^[35]



- [1] Statistical Office, Government of Saint Vincent and the Grenadines, “Mid Year Household Population Estimates by Age and Sex, 2018 to 2022,” Statistical Office, Government of Saint Vincent and the Grenadines, 2022. [Online]. Available: <https://stats.gov.vc/sub-jects/population-and-demography/mid-year-household-population-estimates-by-age-and-sex>. [Accessed 30 June 2022].
- [2] The World Bank Group, “GDP per capita (current US\$) - St. Vincent and the Grenadines,” The World Bank Group, 2022. [Online]. Available: <https://data.worldbank.org/indicator/NY.GDP.PCAP.CD?locations=VC>. [Accessed 13 July 2022].
- [3] Statista, “St. Vincent and the Grenadines: National debt in relation to gross domestic product (GDP) from 2017 to 2027,” Statista, 2022. [Online]. Available: <https://www.statista.com/statistics/731163/national-debt-of-st-vincent-and-the-grenadines-in-relation-to-gross-domestic-product-gdp/>. [Accessed 13 July 2022].
- [4] United Nations Development Programme, “Human Development Report 2021/2022,” 8 September 2022. [Online]. Available: https://hdr.undp.org/system/files/documents/global-report-document/hdr2021-22pdf_1.pdf. [Accessed 14 September 2022].
- [5] Ministry of Finance, Economic Planning and Information Technology, “National Economic & Social Development Plan,” Government of Saint Vincent and the Grenadines, 2022. [Online]. Available: <http://finance.gov.vc/finance/index.php/economic-planning-indus-try-and-social-development/national-economic-a-social-development-plan>. [Accessed 30 June 2022].
- [6] Government of St. Vincent and the Grenadines, “St. Vincent and the Grenadines Sustainable Energy for SVG: The Government’s National Energy Policy,” MArch 2009. [Online]. Available: <https://www.gov.vc/images/PoliciesActsAndBills/SVGNationalEnergyPoli-cyApprovedMar09.pdf>. [Accessed 30 June 2022].
- [7] Peters, Lance - Energy Unit, Energy Data, Kingstown: Private Communication, 2022.
- [8] Lewis, Jordana - St. Vincent Electricity Services Limited, Energy Data, Kingstown: Email, 2022.
- [9] Ministry of Finance, Economic Planning, Sustainable Development & Information Technology, Government of Saint Vincent and the Grenadines, “National Climate Change Policy of Saint Vincent and the Grenadines,” 2 August 2019. [Online]. Available: http://as-sembly.gov.vc/assembly/images/ActsBillsPolicies/SVG_National_Climate_Change_Policy.pdf. [Accessed 2 August 2022].
- [10] Government of St. Vincent and the Grenadines, “St. Vincent and the Grenadines Intended Nationally Determined Contribution Communicated to the UNFCCC,” 18 August 2015. [Online]. Available: https://unfccc.int/sites/default/files/NDC/2022-06/Saint%20Vincent%20and%20the%20Grenadines_NDC.pdf. [Accessed 21 June 2022].
- [11] A. Ochs , M. Konold, K. Auth, E. Musolino and P. Killeen, “Caribbean Sustainable Energy Roadmap and Strategy (C-SERMS) Baseline Report and Assessment,” Worldwatch Intitue, Washington, D.C., 2015.
- [12] Government of Saint Vincent and the Grenadines, “Ministry of Trnasport, Works, Land and Surveys, and Physical Planning,” Government of Saint Vincent and the Grenadines, 2022. [Online]. Available: <http://www.transport.gov.vc/transport/>. [Accessed 8 novem-ber 2022].
- [13] Ministry of Finance, Economic Planning and Information Technology, “Policy, Planning and Administration,” Government of Saint Vincent and the Grenadines., 2022. [Online]. Available: <http://finance.gov.vc/finance/index.php/policy-planning-and-administration>. [Accessed 8 November 2022].
- [14] Government of Saint Vincent and the Grenadines, “Ministry of Tourism, Civil Aviation, Sustainable Development and Culture,” Government of Saint Vincent and the Grenadines, 2021. [Online]. Available: <http://tourism.gov.vc/tourism/index.php>. [Accessed 8 No-vember 2022].
- [15] RUBIS Caribbean, “St. Vincent,” RUBIS Caribbean, 2014. [Online]. Available: <https://www.rubis-caribbean.com/locations/st-vincent/>. [Accessed 8 November 2022].
- [16] The Sol Group, “St. Vincent & The Grenadines,” The Sol Group, 2022. [Online]. Available: <http://solpetroleum.net/fr/st-vincent-the-grenadines>. [Accessed 8 November 2022].

- [17] St. Vincent Electricity Services Limited (VINLEC), “Organisational Chart,” St. Vincent Electricity Services Limited (VINLEC), 2020. [Online]. Available: <https://www.vinlec.com/contents/organisational-chart>. [Accessed 8 November 2022].
- [18] Government of Saint Vincent and the Grenadines, “Ministry of Transport, Works, Lands and Surveys, and Physical Planning,” Government of Saint Vincent and the Grenadines, 2022. [Online]. Available: <http://www.transport.gov.vc/transport/>. [Accessed 8 November 2022].
- [19] Government of St Vincent and the Grenadines, “Ministry of Foreign Affairs, Foreign Trade, Regional Integration and the Diaspora,” Government of St Vincent and the Grenadines, 2022. [Online]. Available: <http://www.foreign.gov.vc/foreign/>. [Accessed 8 November 2022].
- [20] Government of St. Vincent and the Grenadines, “Energy Action Plan for St. Vincent and the Grenadines,” January 2010. [Online]. Available: <https://www.gov.vc/images/PoliciesActsAndBills/SVGEnergyActionPlanSvgFirstEdition.pdf>. [Accessed 30 June 2022].
- [21] R. Hall, Policy, Legal and Regulatory Framework, Kingstown, St. Vincent and the Grenadines: Email, 2021.
- [22] R. Hall, Interviewee, Policy, Legal and Regulatory Framework. [Interview]. 27 July 2022.
- [23] Government of St. Vincent and the Grenadines, “Geothermal Resources Development Act, 2015,” 2015. [Online]. Available: shorturl.at/jmRYZ. [Accessed 1 July 2022].
- [24] I. E. O. M. o. U. D. E. S. V. a. t. G. M. A. D. Freitas, Interviewee, PLR Framework. [Interview]. 5 August 2021.
- [25] ECLAC - United Nations, “Environmental Management Act (2009) of Saint Vincent and the Grenadines,” ECLAC - United Nations, 2022. [Online]. Available: shorturl.at/hqsu2. [Accessed 1 July 2022].
- [26] Government of St. Vincent and the Grenadines, “Customs Controls and Management Act No. 14 of 1999,” 1999. [Online]. Available: https://svgfiu.com/images/pdf/legislation/Acts__4_customs_control_and_management_act.pdf. [Accessed 23 July 2022].
- [27] Government of St. Vincent and the Grenadines, “Value Added Tax Act, 2006,” 2006. [Online]. Available: http://www.oas.org/juridico/english/mesicic3_svg_tax.pdf. [Accessed 23 July 2022].
- [28] Government of St. Vincent and the Grenadines, “Excise Tax Act Chapter 430 No 16 of 2007,” 2007. [Online]. Available: [http://admin.theiguide.org/Media/Documents/act-excise-tax-ch430%20\(1\).pdf](http://admin.theiguide.org/Media/Documents/act-excise-tax-ch430%20(1).pdf). [Accessed 23 July 2022].
- [29] S. Francis, Workforce Data, Kingstown, St. Vincent and the Grenadines: Email, 2022.
- [30] F. Ferguson, Workforce Data, Kingstown, St. Vincent and the Grenadines: Email, 2022.
- [31] E. Edwards, Workforce Data, Kingstown, St. Vincent and the Grenadines: Email, 2022.
- [32] S. Jack, Workforce Data, Kingstown, St. Vincent and the Grenadines: Email, 2022.
- [33] M. Walker, Transportation Data, Kingstown, St. Vincent and the Grenadines: Email, 2022.
- [34] National Environmental Advisory Board and Ministry of Health and the Environment, “Initial National Communication on Climate Change St. Vincent and the Grenadines,” November 2000. [Online]. Available: <https://unfccc.int/sites/default/files/resource/SVG1020.PDF>. [Accessed 21 June 2022].
- [35] Ministry of Health, Wellness and the Environment, “Second National Communication on Climate Change Saint Vincent and the Grenadines,” 2015. [Online]. Available: <https://unfccc.int/resource/docs/natc/vctnc2.pdf>. [Accessed 21 June 2022].