



2019 ENERGY REPORT CARD

GRENADA



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INTRODUCTION

This document presents Grenada's Energy Report Card (ERC) for 2019.

The ERC provides an overview of the energy sector performance in Grenada. The ERC also includes energy efficiency, projects, 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.



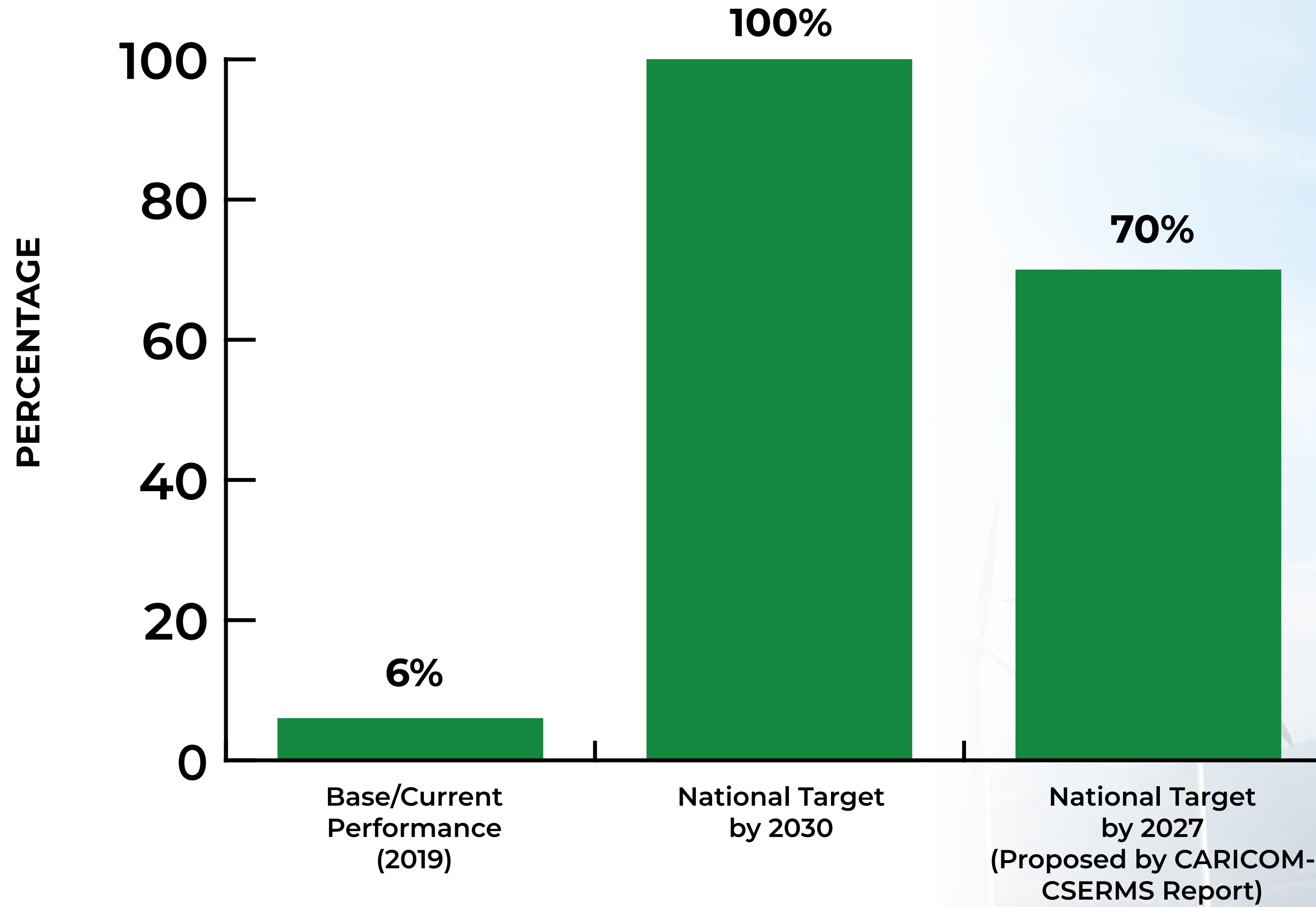
ENERGY SECTOR SUMMARY

Key Data and Information - Energy Sector	
Population	112,002 [1]
GDP (USD) Per Capita	10,815.91 [2]
Debt as % of GDP	55.8% [3]
Human Development Index	0.779 [4]
National Development Plan/Overall Country Development Strategy	National Sustainable Development Plan (2020-2035) [5]
National Energy Policy	The National energy policy of Grenada. A low carbon dioxide development strategy from Grenada, Carriacou and Petite Martinique (2011) [6]
Renewable Energy (RE) Policy	None
RE Target	100% by 2030 [7]
Energy Performance Standards/Appliance Labelling	Grenada is in the process of adopting the Minimum Energy Performance Standards (MEPS) developed by CARICOM Regional Organisation of Standards and Quality (CROSQ) [8]
No. of Persons Employed in Energy Sector	346 [9]
Total Oil Import (BOE) per day (2018)	1,339 [10]
Total Installed Capacity (MW)	57.8 [11]
Total Installed RE (MW)	3.38 [11]
Electricity System Losses (%)	7.14% [11]
Energy Use (kWh) Per Capita	1,938 [11]
Climate Change Policy	National Climate Change Policy for Grenada, Carriacou and Petite Martinique (2017-2021) [12]
Electric Vehicle Stock	5 [13]
National Determined Contributions (NDC)	30% vs 2010 levels by 2025 40% vs 2010 levels by 2030 [14]
National Repository for Energy Data	None



ENERGY SECTOR PERFORMANCE AGAINST TARGETS

RENEWABLE ENERGY PERFORMANCE AGAINST TARGETS





KEY ENERGY STAKEHOLDERS

Government Ministries, Departments and Agencies

- Ministry of Infrastructure Development, Public Utilities, Energy, Transport & Implementation

Fuel Importers & Suppliers

- RUBIS Grenada
- SOL EC LTD
- Spice Gas

Electric Utility

- Grenada Electricity Services Limited

Independent Power Producer(s)

- None

Electricity Regulator

- Public Utilities Regulatory Commission

Transportation

- Ministry of Infrastructure Development, Public Utilities, Energy, Transport & Implementation

Other

- National Electricity Advisory Committee (NEAC)
- Grenada Geothermal Project Team



ELECTRICITY SECTOR: POLICY, LEGAL AND REGULATORY (PLR) FRAMEWORK

	Completed	Draft	In Progress	Not Completed
Energy Policy and Energy Action Plan	✓			
RE Target	✓			
EE Target	✓			
Electricity Regulator	✓			
Net Billing / Net Metering			✓	
Interconnection Policy/Standards			✓	
Feed-in-tariff				✓
RE/EE Act				✓

Policies and Legislation Relevant to the Energy Sector

Policies:

- National Energy Policy [6]

Legislation:

- Petroleum Act, 1956 Amended by SRO 50 of 1961 [19]
- Petroleum and Natural Gas, 1991 [Act No. 22 of 1989 amended by Act No. 31 of 2007] [20]

Policies and Legislation Relevant to the Transportation Sector

Policies:

- The Civil Aviation Act, 2004 [21]

Legislation & Regulation:

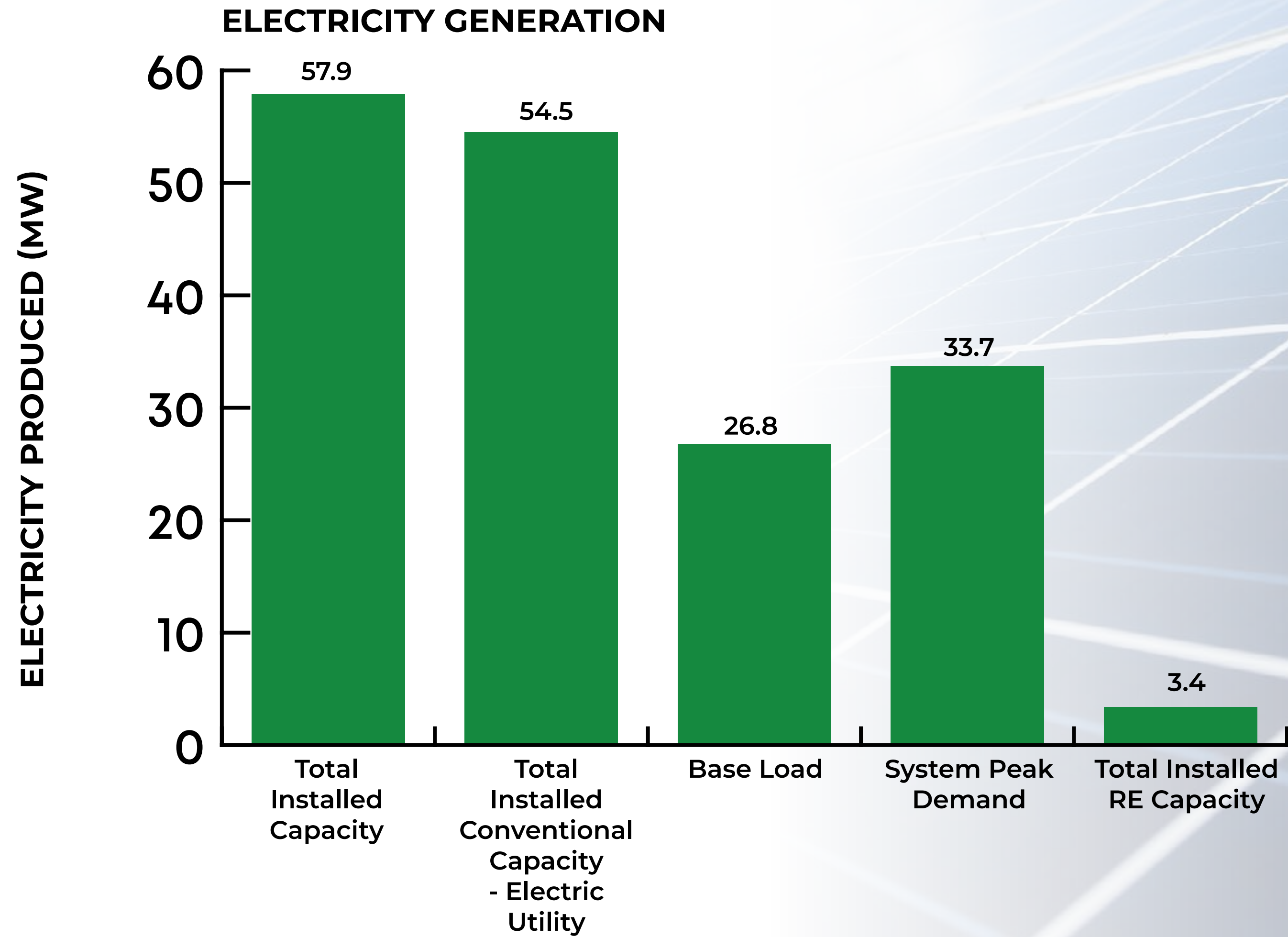
- Petrol Tax Act 2005 Last Amended 2006 [22]

KEY ACHIEVEMENTS: PLR FRAMEWORK TIMELINE FOR ELECTRICITY SECTOR

Name	Year
Public Utilities Regulatory Commission Act	2016 [15]
Electricity Supply Act	2016 [16]
Public Utilities Regulatory Commission Act 31	2017 [17]
Electricity Supply Amendment	2017 [18]

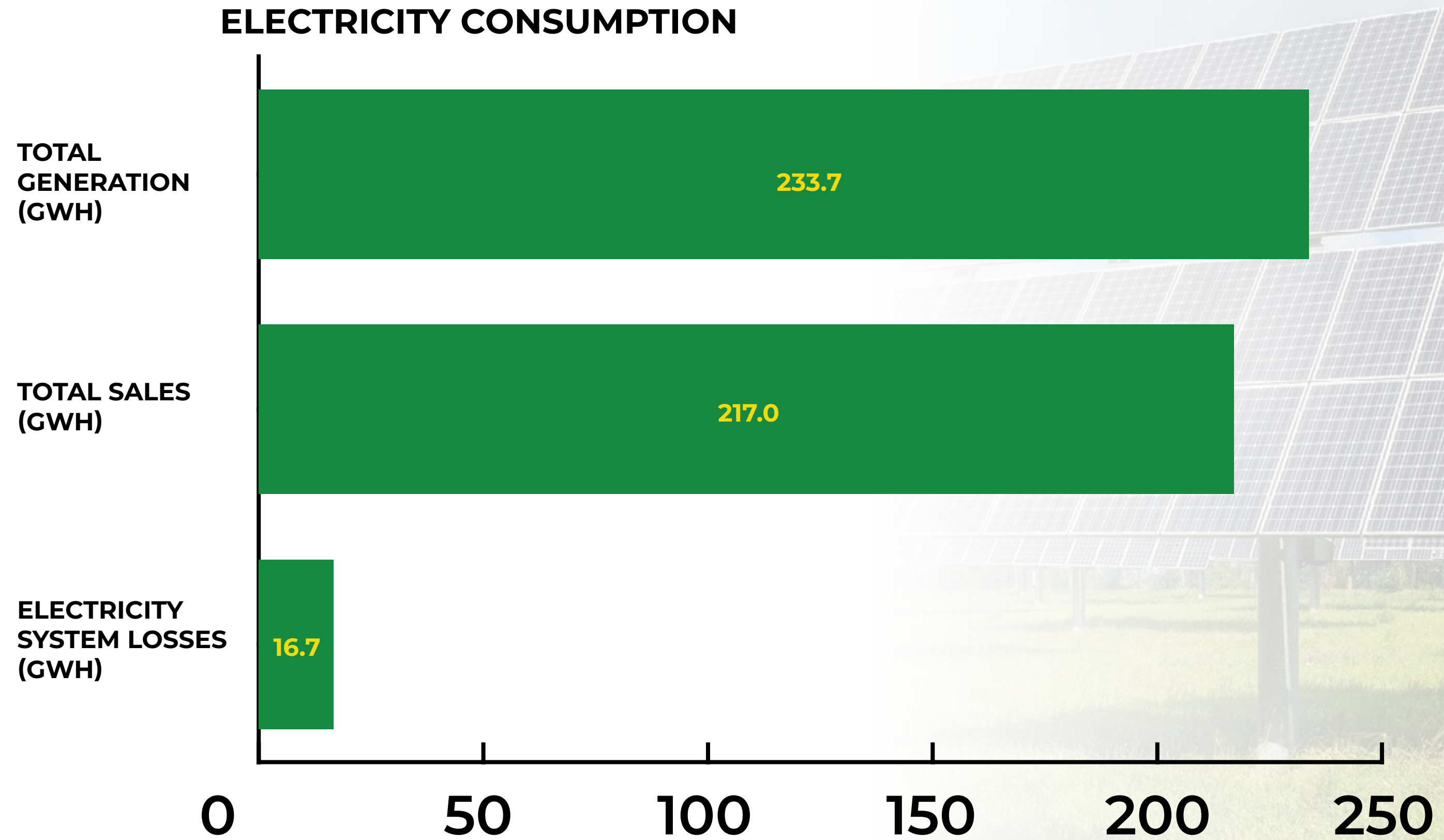


ELECTRICITY & ENERGY EFFICIENCY





ELECTRICITY & ENERGY EFFICIENCY (CONT'D)



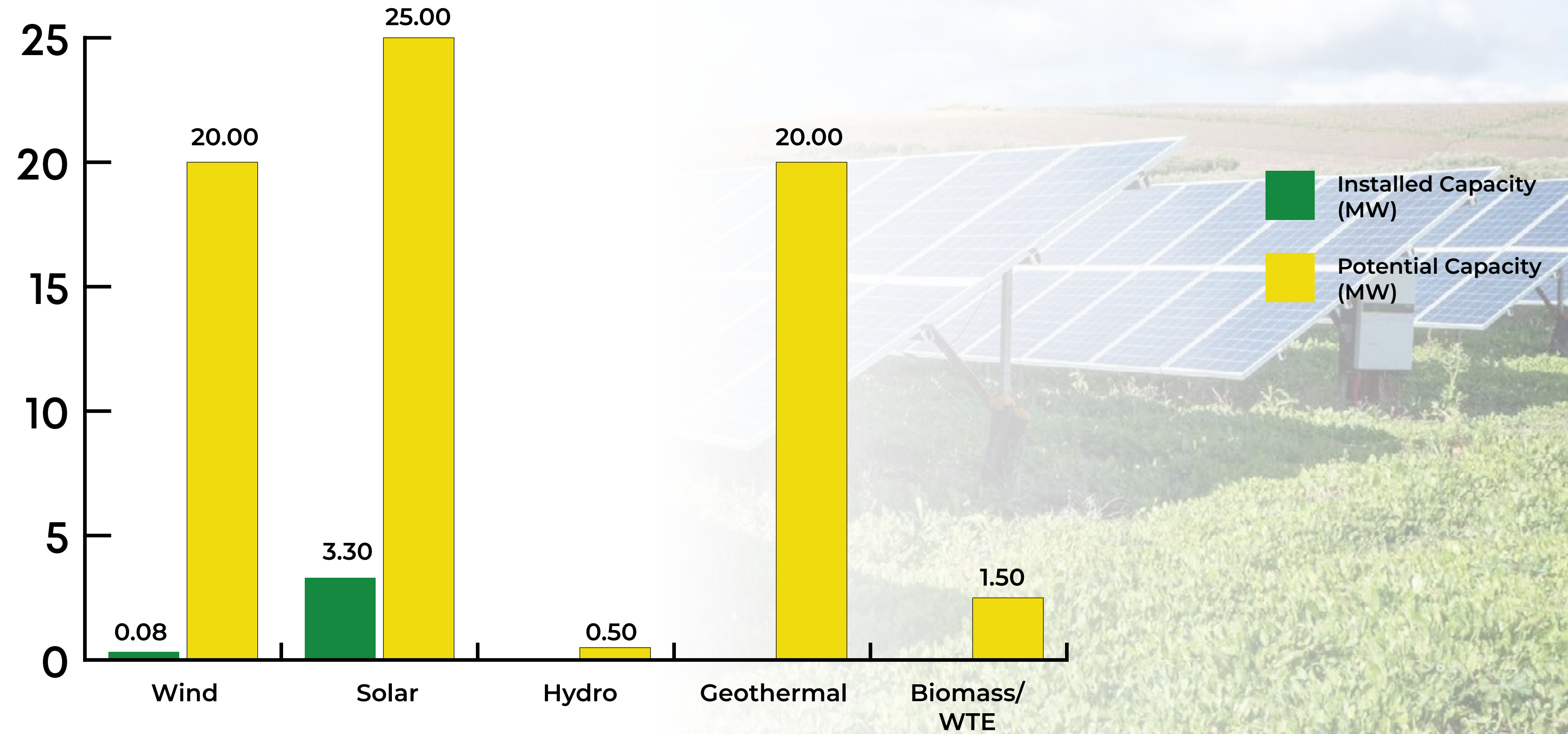
TARRIFS

Class	Energy Charge USD/kWh
Residential Tariff (US\$/kWh)	0.3177
Commercial (US\$/kWh)	0.3295
Industrial/Large Power (Us\$/kWh)	0.2863
Street Lights (US\$/kWh)	0.3097



ELECTRICITY & ENERGY EFFICIENCY (CONT'D)

RENEWABLE ENERGY RESOURCE





PROJECTS IN THE PIPELINE

TECHNICAL ASSISTANCE PROJECTS

Project Name	Project Details	Donor Organization & Banks	Funding Award	Year
Japan Caribbean Climate Change Project (JCCCP):	Advancing the process of low-emission risk-resilient development by improving energy security and integrating medium-to-long-term planning for adaptation to climate change. [23]	Government of Japan	US \$750,000	2020

RENEWABLE ENERGY PROJECTS

Renewable Energy Source	Resource and Projects Capacity	Total Estimated Cost	Funding Source
Solar Photo-Voltaic with Battery Storage	Not Available	US \$3.2 million	UAE-Caribbean Renewable Energy Fund (UAE – CREF)



NUMBER AND TYPE OF TERTIARY LEVEL & VOCATIONAL TRAINING SUSTAINABLE ENERGY PROGRAMMES OFFERED

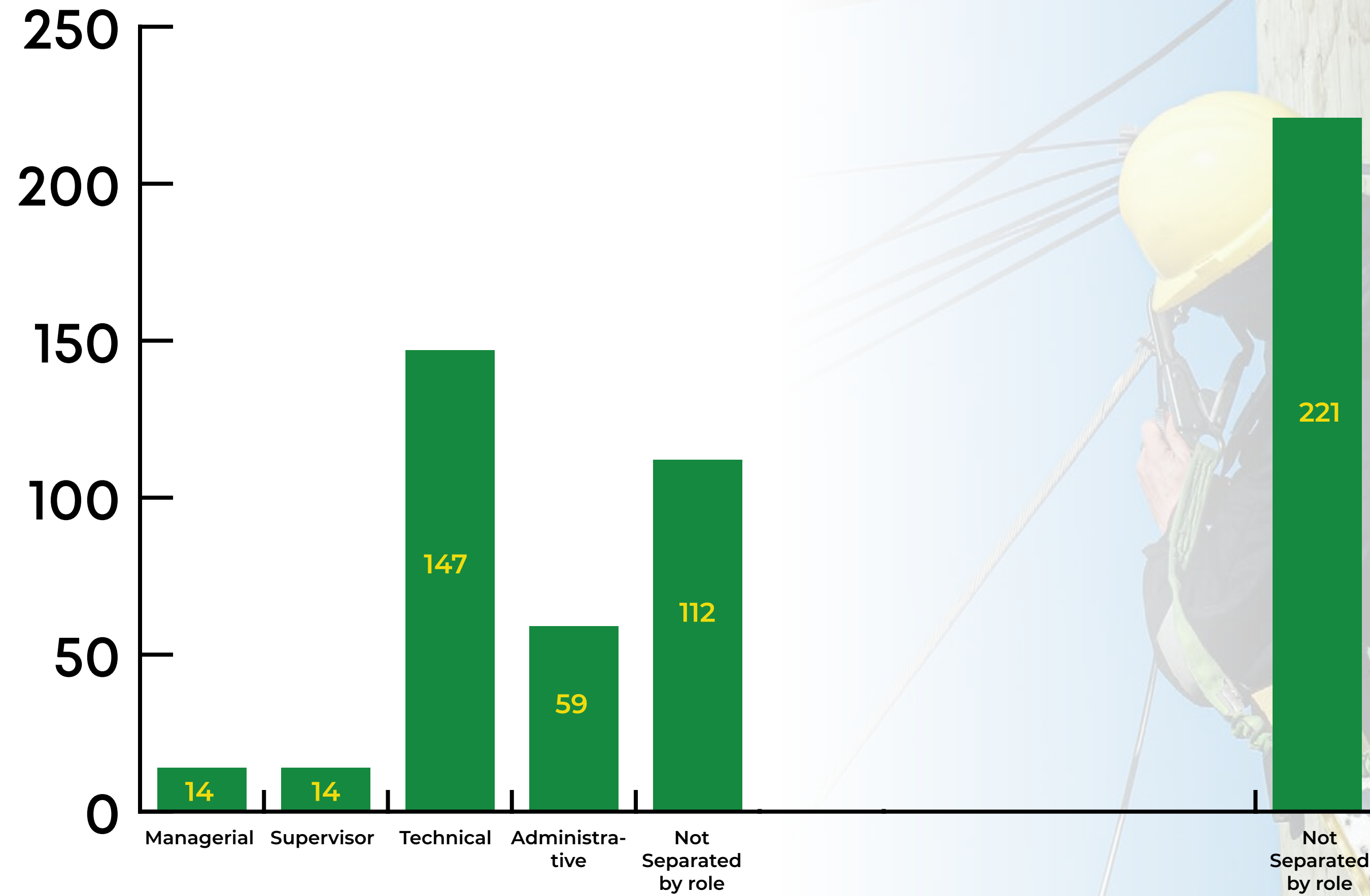
Name of Education Programme Provider	No of Persons Enrolled	Types of Programme	Website Link
		Caribbean Vocational Qualification (CVQ)	
Grenada Solar Energy Technical Institute	23	PV Installation Roofers Fitter level II	http://gsetri-solar.simplesite.com/
Grenada Solar Energy Technical Institute	0	Renewable Energy	http://gsetri-solar.simplesite.com/

Note: After persons have completed the PV installation roof fitters course, they have the option to further enroll in the renewable energy course.



WORKFORCE

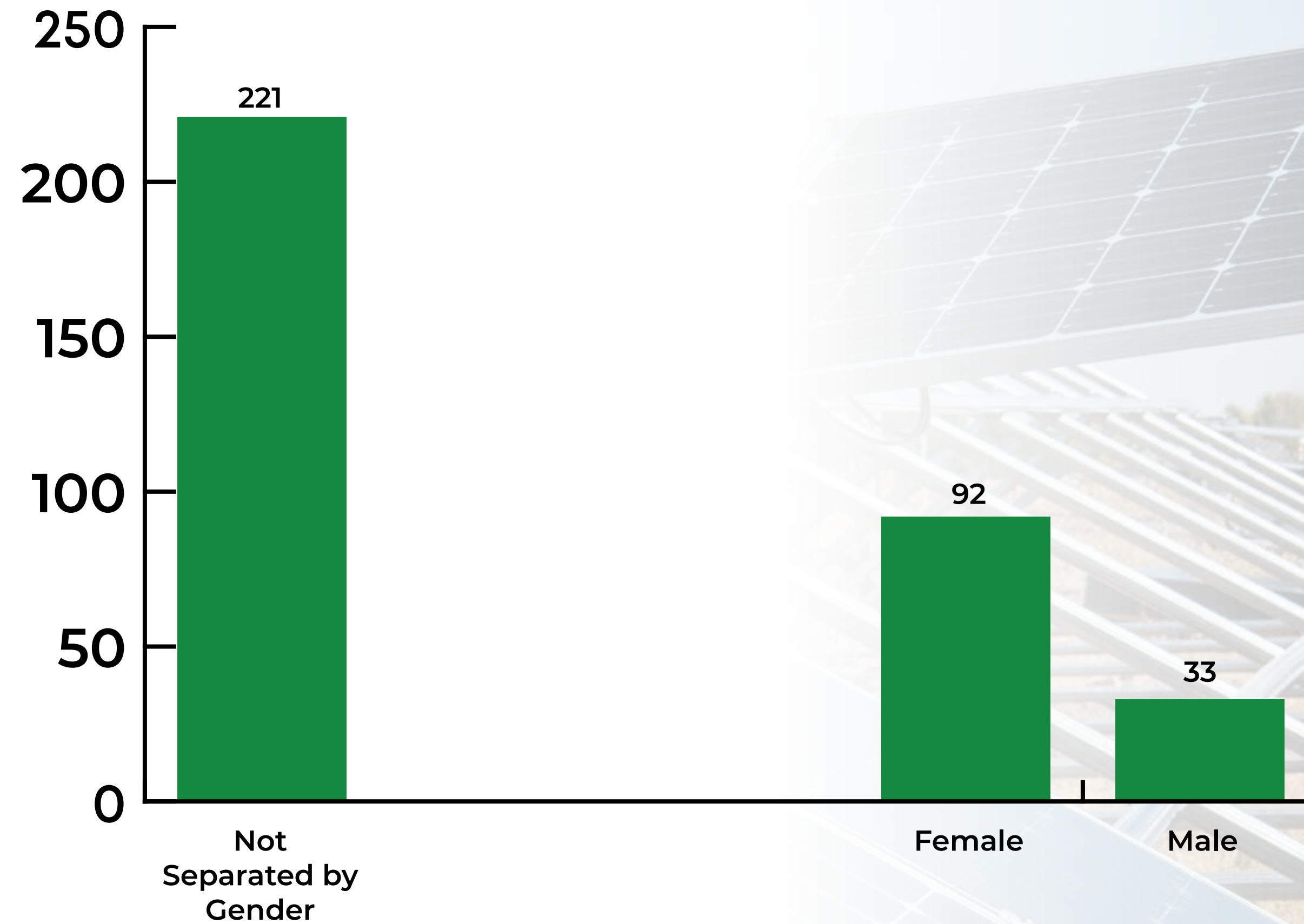
WORKFORCE BY ROLE





WORKFORCE (CONT'D)

WORKFORCE BY GENDER

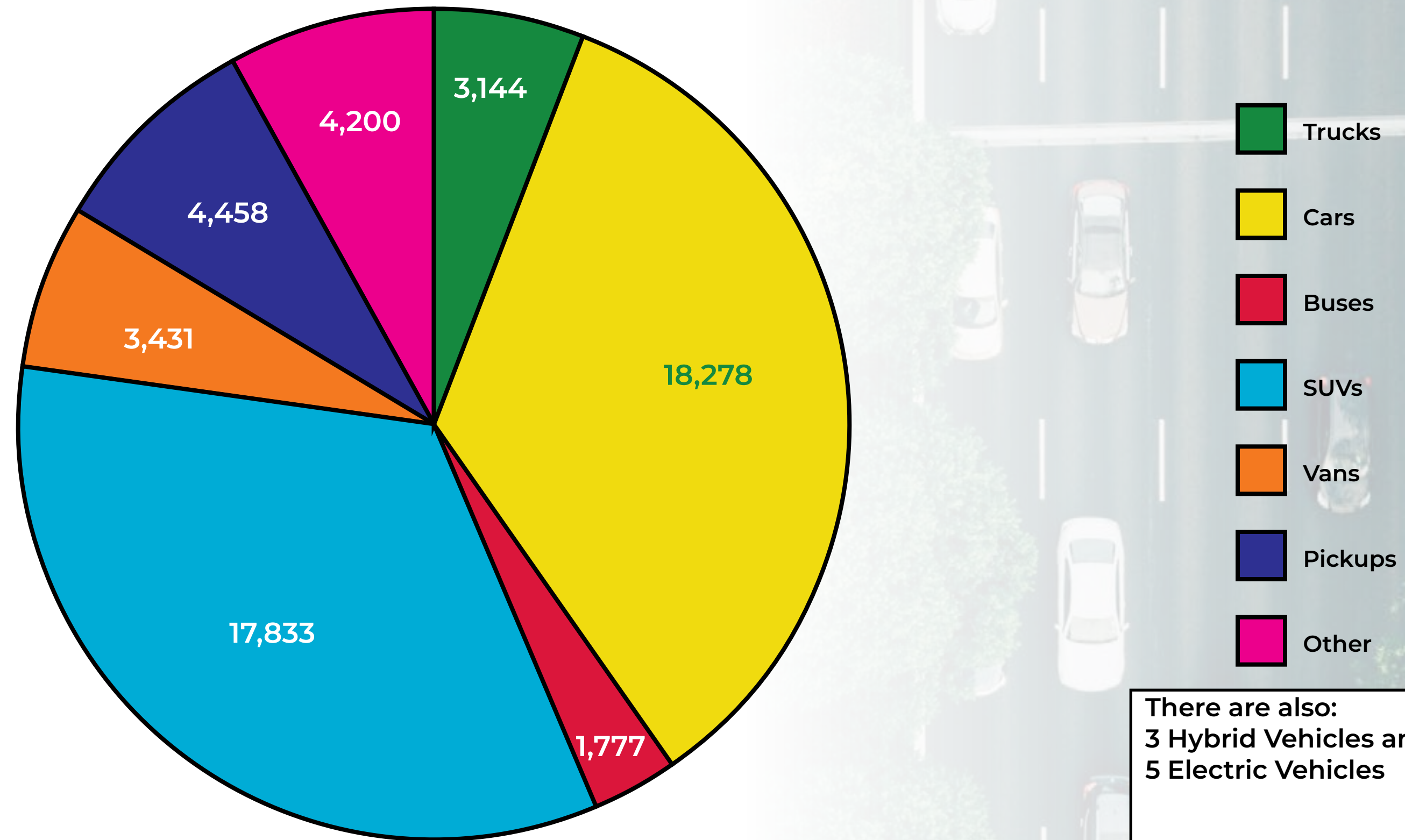


Note: The workforce data has been presented in 2 separate graphs because the data received was not fully disaggregated by role or gender.



TRANSPORTATION SECTOR

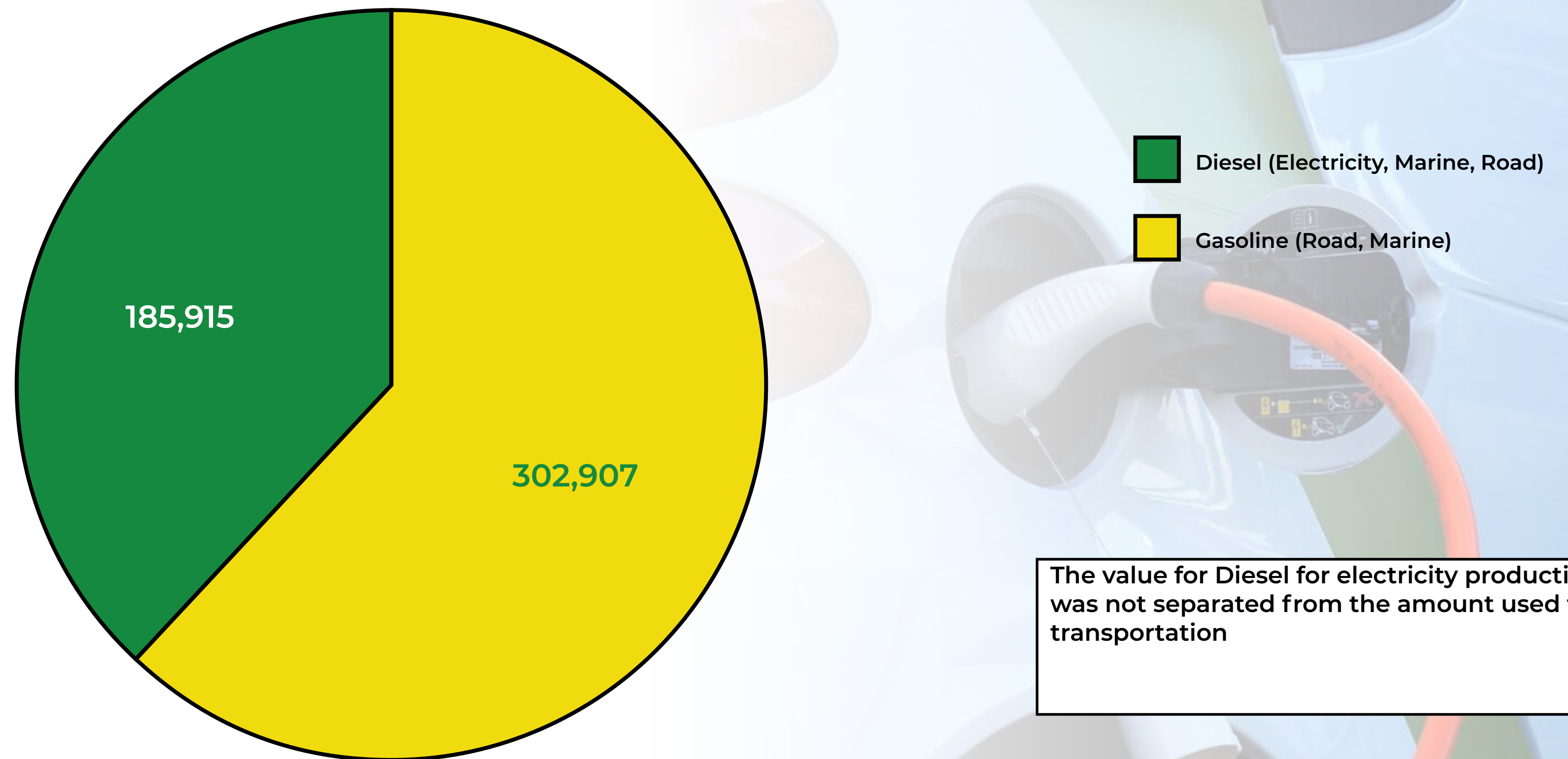
CONVENTIONAL VEHICLE STOCK





TRANSPORTATION SECTOR (CONT'D)

FUEL CONSUMPTION (BOE)





CLIMATE CHANGE FRAMEWORK

Climate Change Policy	National Climate Change Policy for Grenada, Carriacou and Petite Martinique 2017-2021 [12] National climate change adaptation plan (NAP) for Grenada, Carriacou and Petite Martinique [23]
National Determined Contributions	30% vs 2010 levels by 2025 40% vs 2010 levels by 2030 [14]
Priority Sectors for NDC	Electricity, Transport, Waste, Forestry
National Communications (NC) to the UNFCCC	Grenada's Initial Communication to the UNFCCC [24]
	Grenada, Carriacou & Petite Martinique Second National Communication to the United Nations Framework Convention on Climate Change [25]

GREENHOUSE GAS (GHG) INVENTORY BY GAS [25]

CO ₂ (Gg CO ₂)	CH ₄ (Gg CO ₂ eq)	N ₂ O (Gg CO ₂ eq)
278.9	2.7	4.0

GREENHOUSE GAS (GHG) INVENTORY BY SECTOR [25]

Energy Industries	Manufacturing Industries and Construction	Domestic Transport	Commercial/ Residential	Other
128.3	4.6	116.2	33.2	3.2



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