

# BARBADOS

ENERGY REPORT CARD (ERC) FOR 2021



# INTRODUCTION

This document presents Barbados' Energy Report Card (ERC) for 2021.

The ERC provides an overview of the energy sector performance in Barbados. 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.



# ENERGY SECTOR SUMMARY

## BARBADOS NATIONAL STRATEGIC PLAN 2006-2025<sup>[5]</sup>

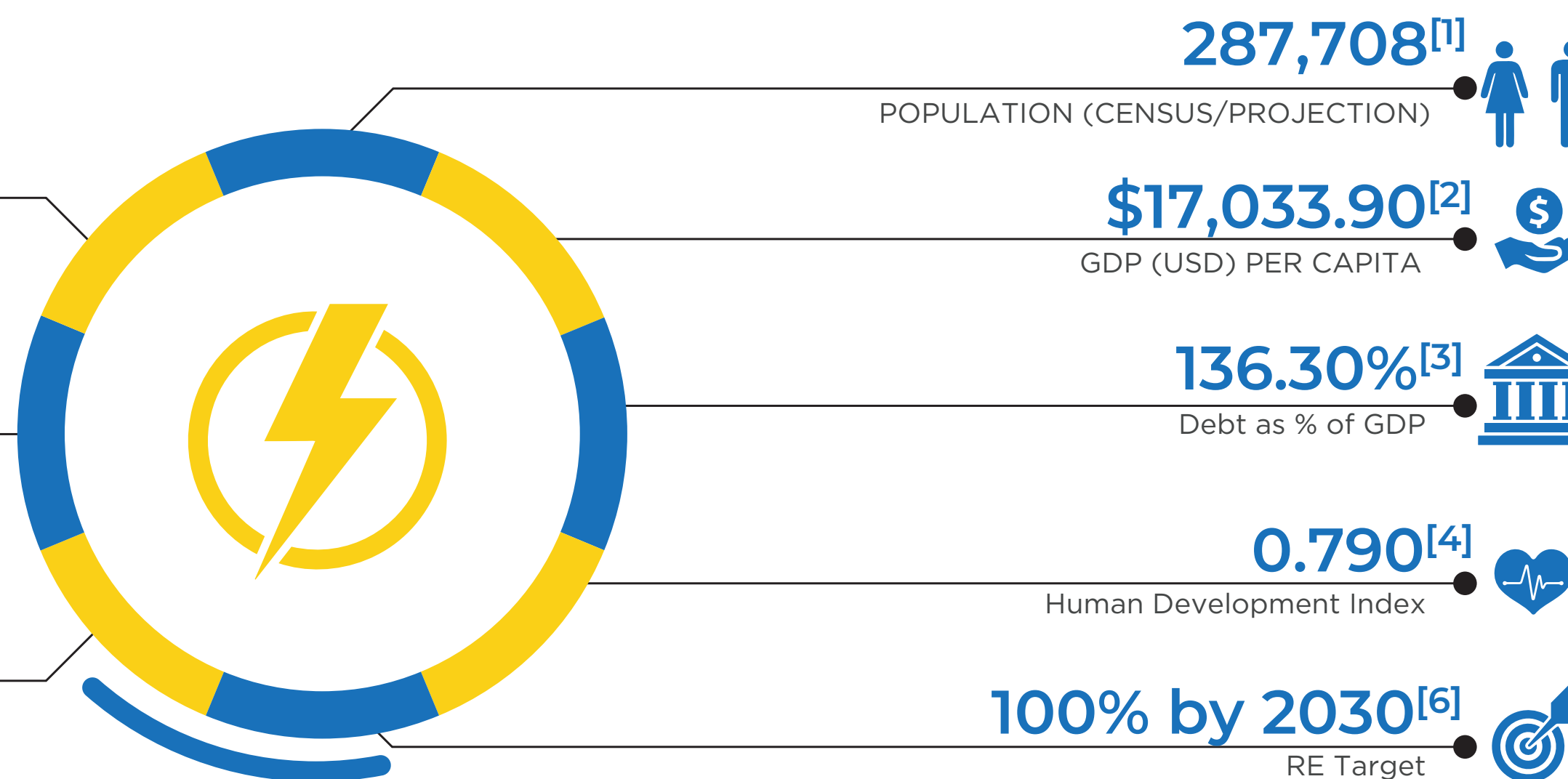
National Development Plan/  
Overall Country Development Strategy

## BARBADOS NATIONAL ENERGY POLICY (BNEP) 2019-2030<sup>[6]</sup>

National Energy Policy

None

Renewable Energy (RE) Policy



	No. of Persons Employed in Energy Sector	443 <sup>1</sup>
	Total Installed Conventional Capacity (MW)	252 <sup>[8]</sup>
	Total Installed RE (MW)	67 <sup>[8]</sup>
	Electricity System Losses (%)	5.85% <sup>[9]</sup>
	Energy Use (kWh) Per Capita	3,142.07 <sup>[9]</sup>
	Fuel and Oil Imports as % of GDP	7.10% <sup>[10]</sup>
	Oil Imports as % of GDP	0.8% <sup>[10]</sup>
	Electric Vehicle Stock	664
	Climate Change Policy	National Climate Change Policy Barbados (2012) <sup>[11]</sup>
	Total Oil Import (BOE) per day	Not Available
	Total Oil Export (BOE) per day	Not Available
	Energy Intensity (BTU/\$)	Not recorded [8]
	National Repository for Energy Data	Ministry of Energy and Business (sieBARBADOS) <sup>2[8]</sup>

1. This represents the Ministry of Energy, Small Business and Entrepreneurship, and Barbados Light & Power Company  
2. sieBARBADOS was inactive during 2021.

## ENERGY PERFORMANCE STANDARDS /APPLIANCE LABELLING <sup>[7]</sup>

### ENERGY MANAGEMENT

ISO 12655: 2013 Energy performance of buildings  
- Presentation of measured energy use of buildings

ISO 50001:2011 Energy management systems  
- Requirements with guidance for use

ISO 50002: 2014 Energy audits  
- Requirements with guidance for use

ISO 50004: 2014 Energy management systems  
- Guidance for the implementation, maintenance and improvement of an ISO 50001 energy management system

ISO 50015: 2014 Energy management systems  
- Measurement and verification of energy performance of organisations - General principles of guidance

BNS IEC 60081: 2002-05 (+ Amendment 4.0: 2010-02)  
Double-capped florescent lamps  
- Performance Requirements

BNS IEC 60969: 2001-03 (Edition 1.2 + Performance Requirements Amendment 1 & 2 ) Self -ballasted lamps for general lighting services

### SOLAR ENERGY

IEC 61215 Crystalline silicone terrestrial photovoltaic (PV)

- Design qualification and type approval  
IEC 61345 UV test for photovoltaic (PV) modules

IEC 61646 Thin-film terrestrial photovoltaic (PV) modules

IEC 61701 Salt mist corrosion testing of photovoltaic (PV) modules

IEC/TS 61836:2007-21 S Solar photovoltaic energy systems - Terms, definitions and Edition 2.0 symbols

IEC 61853-1 Photovoltaic modules (PV) performance testing and energy rating Part 1: Irradiance and temperature performance measurements and power rating

### WIND ENERGY

IEC 61400-1 Wind turbines - Part 1  
- Design requirements

IEC/TS 61400-2 Wind turbines - Part 2  
- Design requirements for small wind turbines

IEC 61400-14 Wind turbines - Part 14  
- Declaration of apparent sound power

## NATIONAL DETERMINED CONTRIBUTIONS (NDC)

Total absolute emissions in the base year (2008) have been restated at 2,123Gg CO<sub>2</sub>e. The 2015 NDC inventory stated emissions at 1,816Gg CO<sub>2</sub>e.

The absolute emissions reductions resulting from this 2021 NDC update conditional contribution below the 2008 base year are 705Gg CO<sub>2</sub>e (2025) and 1,459Gg CO<sub>2</sub>e (2030) respectively.

Total economy wide BAU emissions projections are 1,881Gg CO<sub>2</sub>e (2025) and 1,958Gg CO<sub>2</sub>e (2030) respectively.<sup>[12]</sup>

## Performance Against Targets



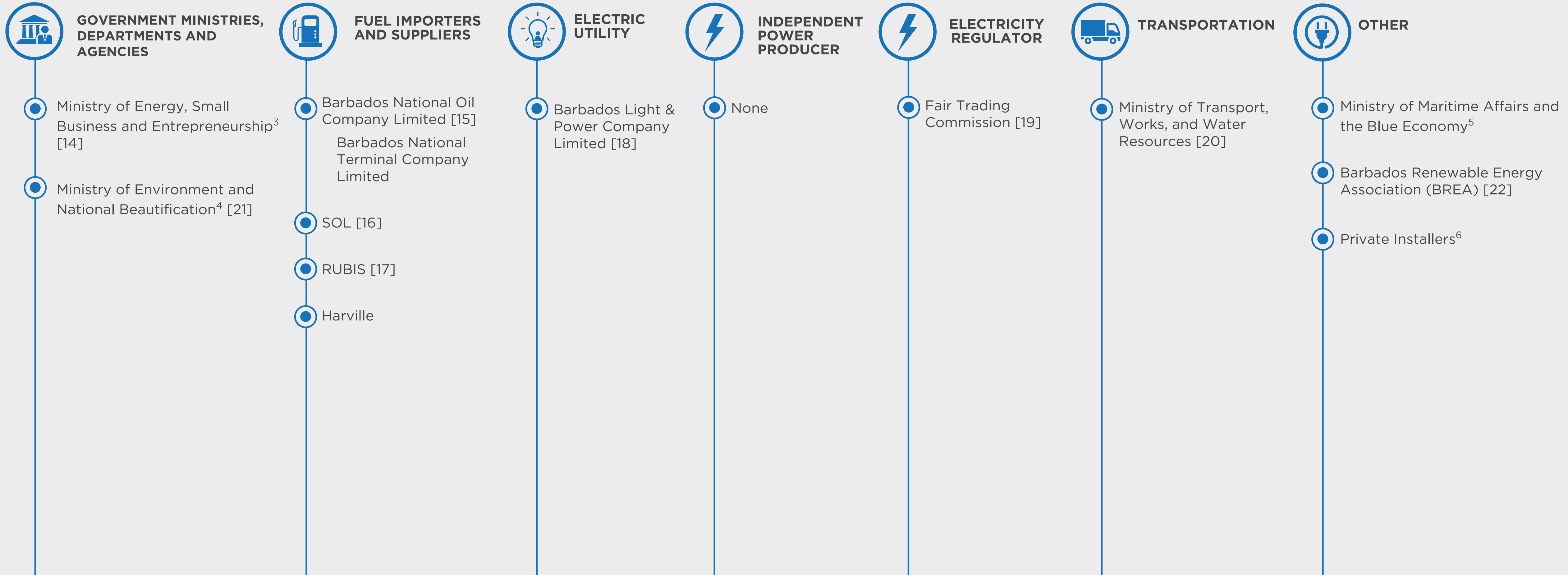
Current Performance (2021)



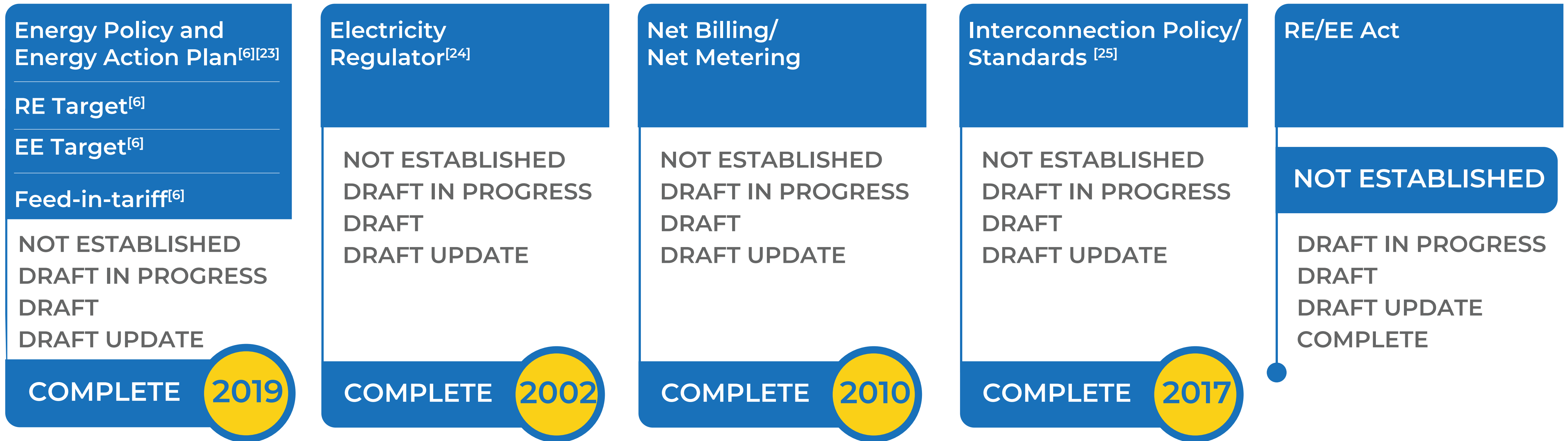
National Target (2030)



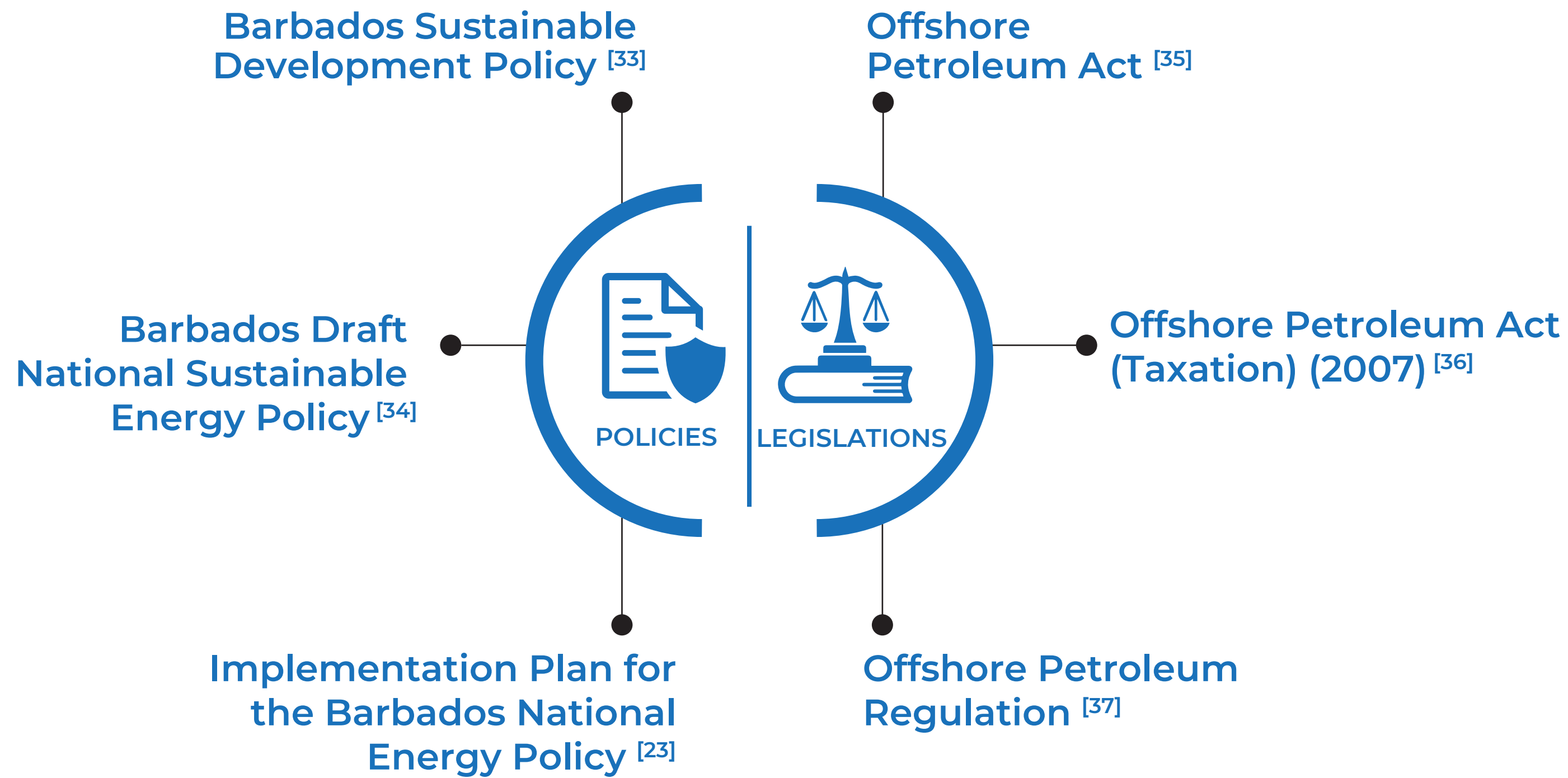
National Target (Proposed by  
CARICOM-C-SERMS (2027))



3. Renamed Ministry of Energy and Business in 2022.  
 4. Renamed the Ministry of Environment and National Beautification, Green and Blue Economy in 2022.  
 5. This ministry was combined with the Ministry of the Environment and Beautification in 2022 to become the Ministry of Environment and National Beautification, Green and Blue Economy.  
 6. The Ministry of Energy and Business can be contacted for a full list of installers.



## Policies and Legislation Relevant to the Energy Sector



## KEY ACHIEVEMENTS

### PLR Framework Timeline For Electricity Sector

- 1936** Electricity Act
- 2002** Fair Trading Commission Act [24]
- 2002** Utilities Regulation Act [26]
- 2010** The Sustainable Energy Framework for Barbados (SEFB)
- 2012** Integrated Resource Plan
- 2013** Electric Light & Power Act (ELPA)
- 2015** Electric Light and Power (Amendment) Bill 2015 [27]
- 2019** Electric Light and Power [28]
- 2019** Barbados National Energy Policy 2019 -2030 [6]
- 2019** Implementation Plan for the Barbados National Energy Policy (2019)
- 2019** Utilities (Amendment) Bill (2019) [29]
- 2020** Fair Trading Commission (Amendment) Bill [30]
- 2020** Utilities Regulation (Amendment) Bill [31]
- 2021** The Integrated Resource & Resilience Plan for Barbados [32]





## LEGISLATION & REGULATION

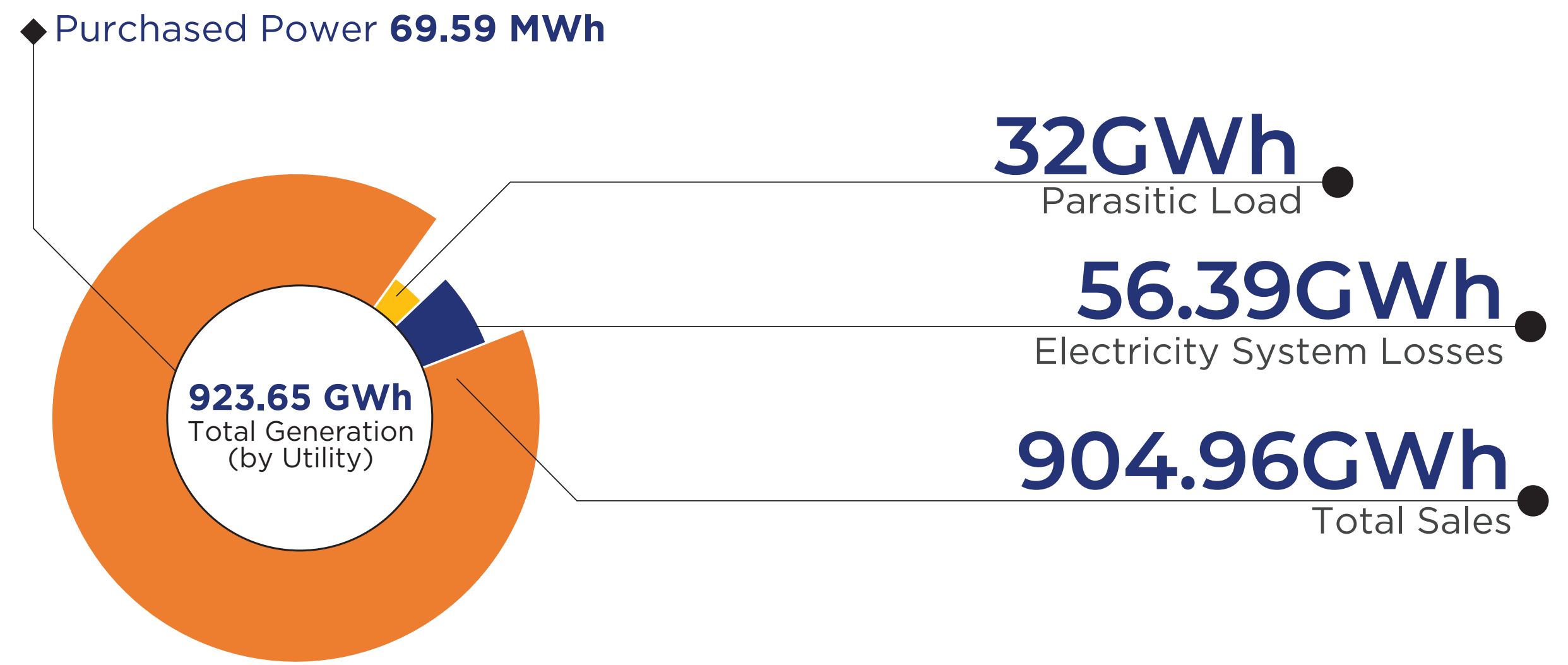
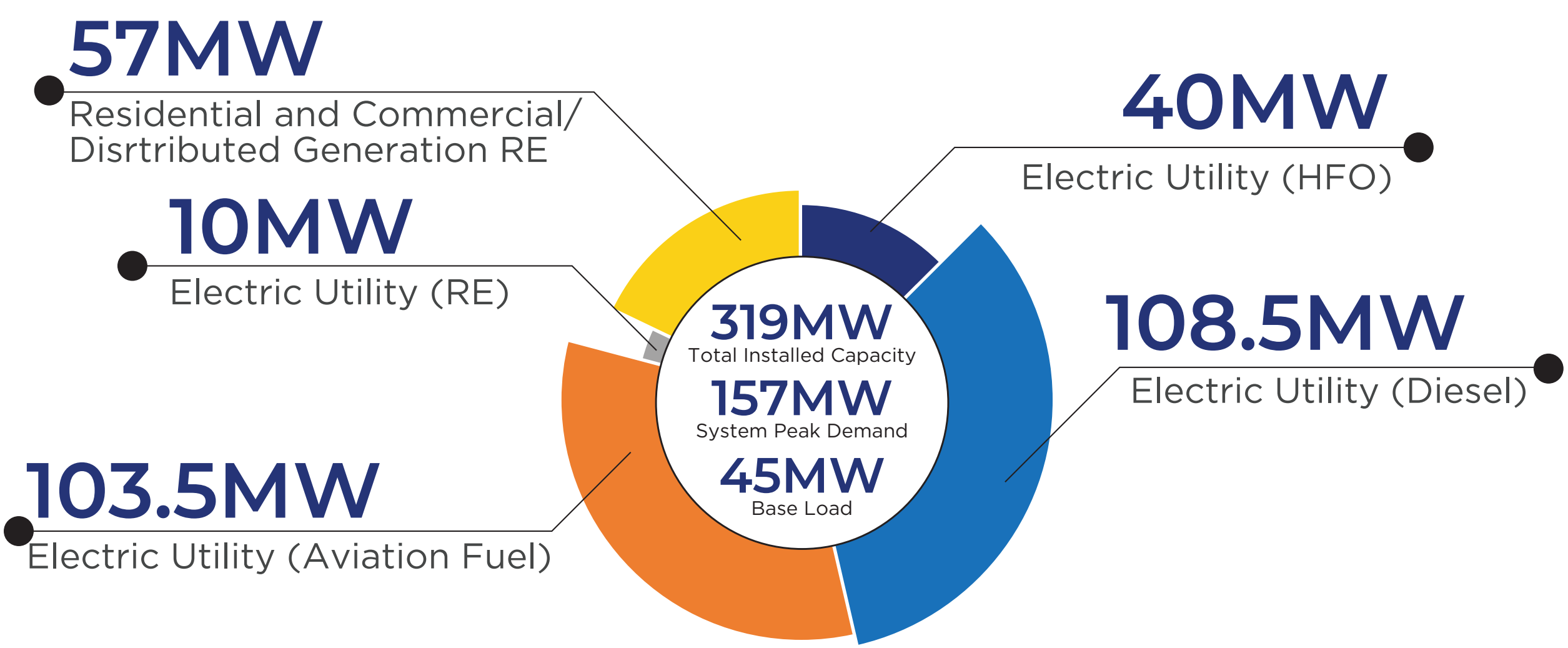
Transport Board Act <sup>[38]</sup>  
Road Traffic Act (last Amendment in 2018) <sup>[39]</sup>



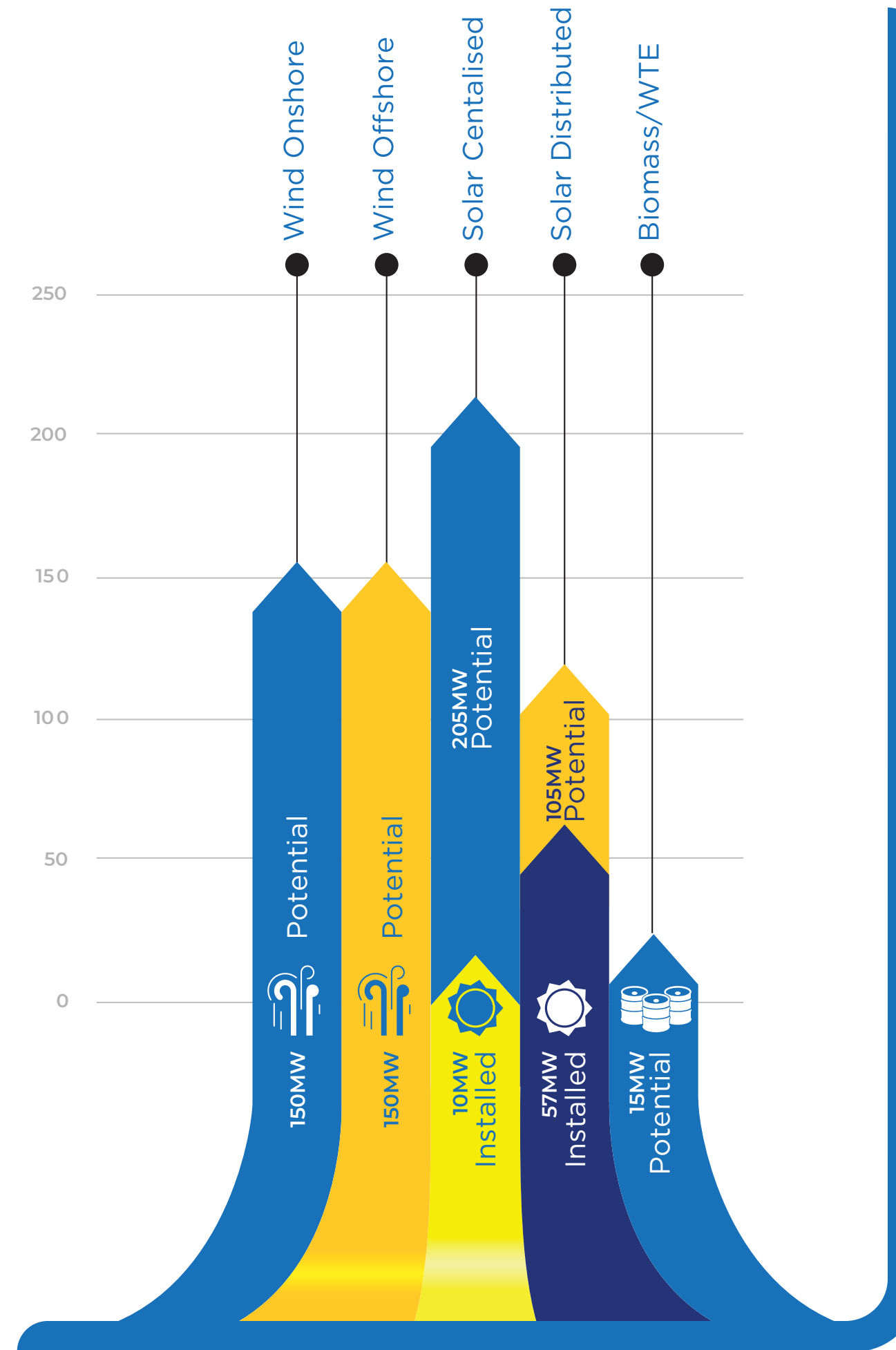
## POLICIES<sup>7</sup>

**Installed Capacity (MW)**

**Energy Consumption (GWh)**



## Renewable Energy Capacity (MW)



## Electricity Tariffs<sup>[10]</sup>

	RATE CLASS	CUSTOMER CHARGE (US\$/MONTH)	DEMAND CHARGE (US\$/KVA) (INCL. VAT)	BASE CHARGE (US\$/KWH) (INCL. VAT)	FUEL CHARGE (US\$/KWH) (INCL. VAT)
<b>DOMESTIC TARIFF (US\$/KWH)</b>	0-150kWh	3.52	Not Applicable	0.075	FCA x 1.175
	151-500kWh	5.87		0.1	FCA x 1.175
	500 - 1,500kWh	8.22		0.09	FCA x 1.175
	Over 1,500 kWh	8.22		0.11	FCA x 1.175
<b>GENERAL SERVICE</b>	0-100kWh	4.7	Not Applicable	0.11	
	101-500kWh	6.465		0.125	
	500 1,500kWh	8.225		0.15	
	0-100 kWh				
	Next 400 kWh, per kWh				
	Next 1,000 kWh, per kWh				
	Over 1,500 kWh	8.225		0.17	
	All kWh, per kWh.				FCA x 1.175
<b>SECONDARY VOLTAGE POWER</b>	Each Service	11.75	14.1	0.08	FCA x 1.176
<b>LARGE POWER</b>	Each Service	176.5	12.925	0.07	FCA x 1.177
<b>STREETLIGHTS</b>	Each 50 Watt HPS light	3.52	Not Applicable		FCA x 1.178
	Each 70 Watt HPS light	3.565			
	Each 100 Watt HPS light	4.295			
	50 Watt HPS (25 kWh / month)				25*FCA x 1.175
	70 Watt HPS (33 kWh / month)				33*FCA x 1.175
	100 Watt HPS (43 kWh / month)				43*FCA x 1.175

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.     te per month  
12.     te per month

## Technical Assistance Projects



### Donor Funding and Technical Assistance Landscape

Year	Project Name
2012	Public Sector Smart Energy Programme (PSSEP) <sup>[40]</sup>
2016	Deployment of Cleaner Fuels and Renewable Energies in Barbados <sup>[41]</sup>
2023	SMARTER - Sustainable Management and Resilient Thinking for our Energy Revolution <sup>[42]</sup>
2019	Sustainable Energy Investment Program (SMART FUND II) <sup>[43] [44]</sup>
2019	Supporting Energy Transition Implementation and Smart Energy Technology Expansion in Barbados <sup>[45]</sup>
2019	Demonstration Of Smart Energy Buildings For Barbados Project <sup>[46]</sup>
2021	Barbados - -Better Batteries- an Energy-as-a-Service Model to Accelerate the Hotel Industry's Access to Renewable Energy, Utilizing a Battery Storage Solution with a lot framework Enabling External Control and Data Analytics <sup>[47]</sup>
2021	Barbados - -Better Batteries- an Energy-as-a-Service Model to Accelerate the Hotel Industry's Access to Renewable Energy, utilizing a Battery Storage Solution with a lot framework Enabling External Control and Data Analytics (Grant) <sup>[48]</sup>
2021	Support for the Design of Carbon Neutral Strategies in the Context of Energy Transition in Barbados <sup>[49]</sup>
2020	Gamma Project <sup>[50] [51]</sup>
2020	BNOCL and Blue Economy Project <sup>[50] [52]</sup>
2021	Gymnasium Project <sup>[50] [53]</sup>




### Donor Organization & Banks

Donor Organization & Banks
Inter-American Development Bank
European Union
Inter-American Development Bank
United Nations Development Programme (UNDP) GEF-7 grant
Inter-American Development Bank
European Commission
Inter-American Development Bank
Ministry of Trade, Energy and Industry of Korea, Republic of Korea
Inter-American Development Bank
Multilateral Investment Fund II
Inter-American Development Bank
Inter-American Development Bank
Inter-American Development Bank



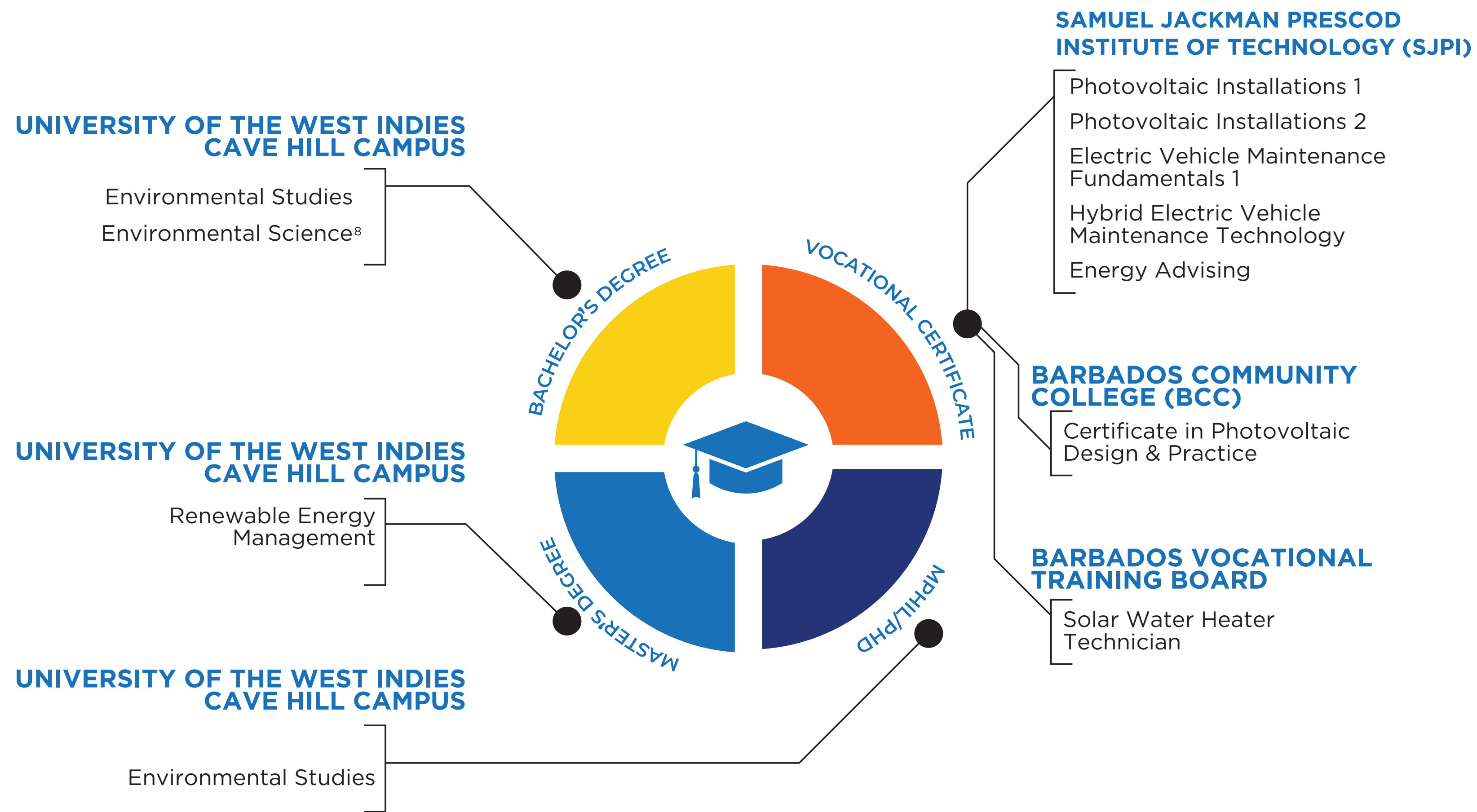
### Funding Awards

Funding Awards
\$17,000,000 USD
€5,810,000 EU
\$1,593,836 USD
\$30,000,000 USD
\$15,463,142 USD
\$550,000 USD
\$3,000,000 USD
\$110,000 USD
\$390,000 USD
\$400,000 USD

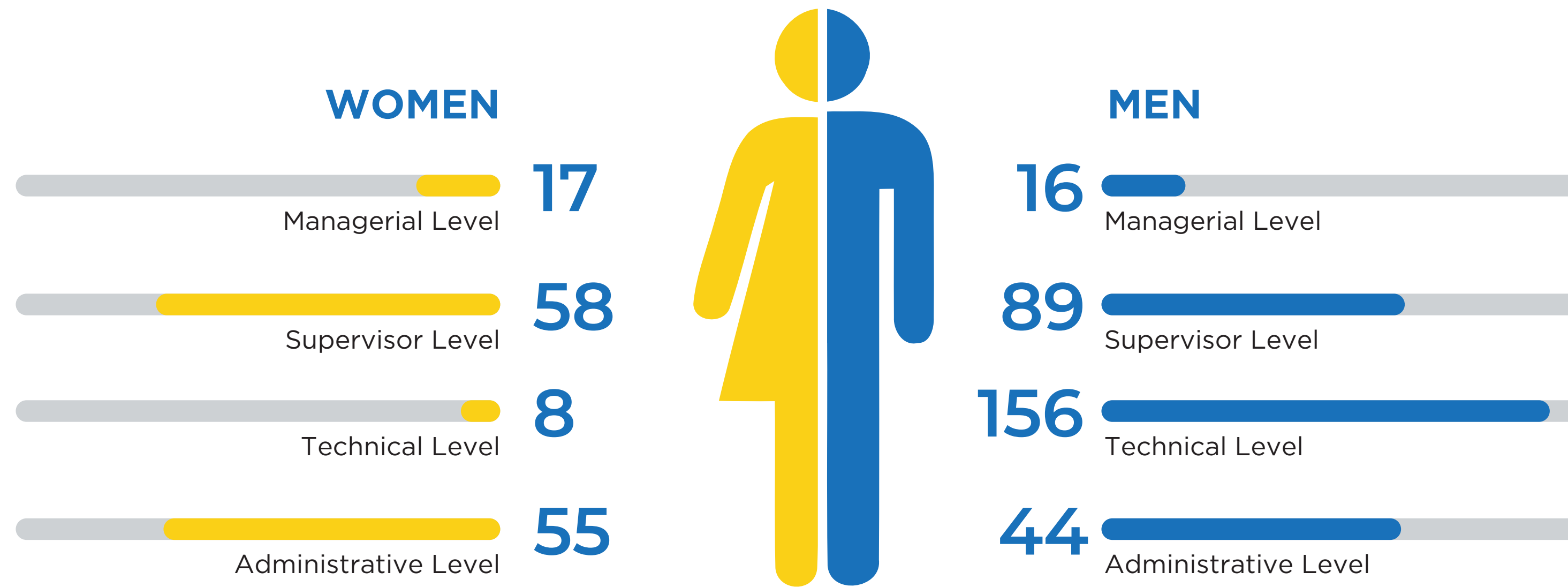


**ENERGY EFFICIENCY PROJECTS**  
There were no Energy Efficiency Projects reported for 2021

**RENEWABLE ENERGY PROJECTS**  
There were no Renewable Energy Projects reported for 2021.



## Persons Employed in the Energy Sector





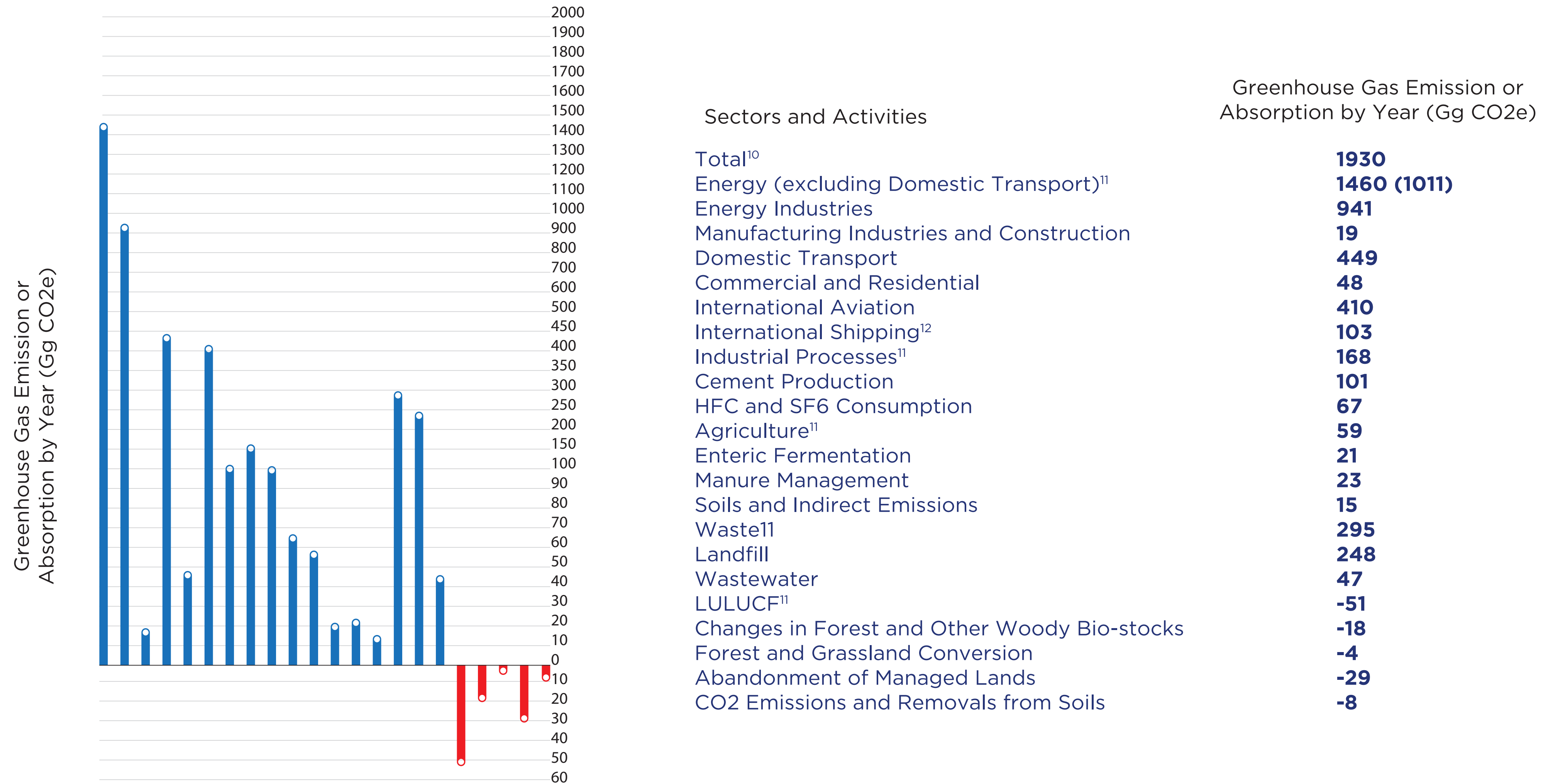


## TRANSPORTATION SECTOR

Detailed data was not available on the transportation sector for Barbados. There are, however, 664 electric vehicles including 49 buses.

<h2>Climate Change Policy</h2>	<p>National Climate Change Policy (2012) <sup>[11]</sup></p>
<h2>National Determined Contributions <sup>[12]</sup></h2>	<p>Total absolute emissions in the base year (2008) have been restated at 2,123Gg CO<sub>2</sub>e. The 2015 NDC inventory stated emissions at 1,816Gg CO<sub>2</sub>e. The absolute emissions reductions resulting from this 2021 NDC update conditional contribution below the 2008 base year are 705Gg CO<sub>2</sub>e (2025) and 1,459Gg CO<sub>2</sub>e (2030) respectively. Total economy wide BAU emissions projections are 1,881Gg CO<sub>2</sub>e (2025) and 1,958Gg CO<sub>2</sub>e (2030) respectively.</p>
<h2>Emissions Reduction Target <sup>[12]</sup></h2>	<p><b>2025</b> 20% reduction relative to business-as-usual emissions in 2025 without international support (unconditional). 35% reduction relative to the business-as-usual emissions in 2025 conditional upon international support.</p> <p><b>2030</b> 35% reduction relative to business-as-usual emissions in 2030 without international support (unconditional). 70% reduction relative to business-as-usual emissions in 2030 conditional upon international support.</p>
<h2>Priority Sectors for NDC <sup>[12]</sup></h2>	<p>Barbados' First National Communication Under the United Nations Framework Convention on Climate Change 2001 <sup>[54]</sup></p>
<h2>National Communications (NC) to the UNFCCC</h2>	<p>Barbados' Second National Communication Under the United Nations Framework Convention on Climate Change 2018 <sup>[55]</sup></p>

# GREENHOUSE GAS SOURCES AND SINKS BY SECTOR AND ACTIVITY FOR 2010 <sup>[55]</sup>



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