



# HAITI

ENERGY REPORT CARD (ERC) FOR 2022





# INTRODUCTION



## This is the Energy Report Card (ERC) for 2022 for Haiti.

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
- Energy Efficiency Metrics, including Energy Intensity

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.

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### Acknowledgements

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# ENERGY SECTOR SUMMARY

## + SOCIOECONOMIC POLICIES

None

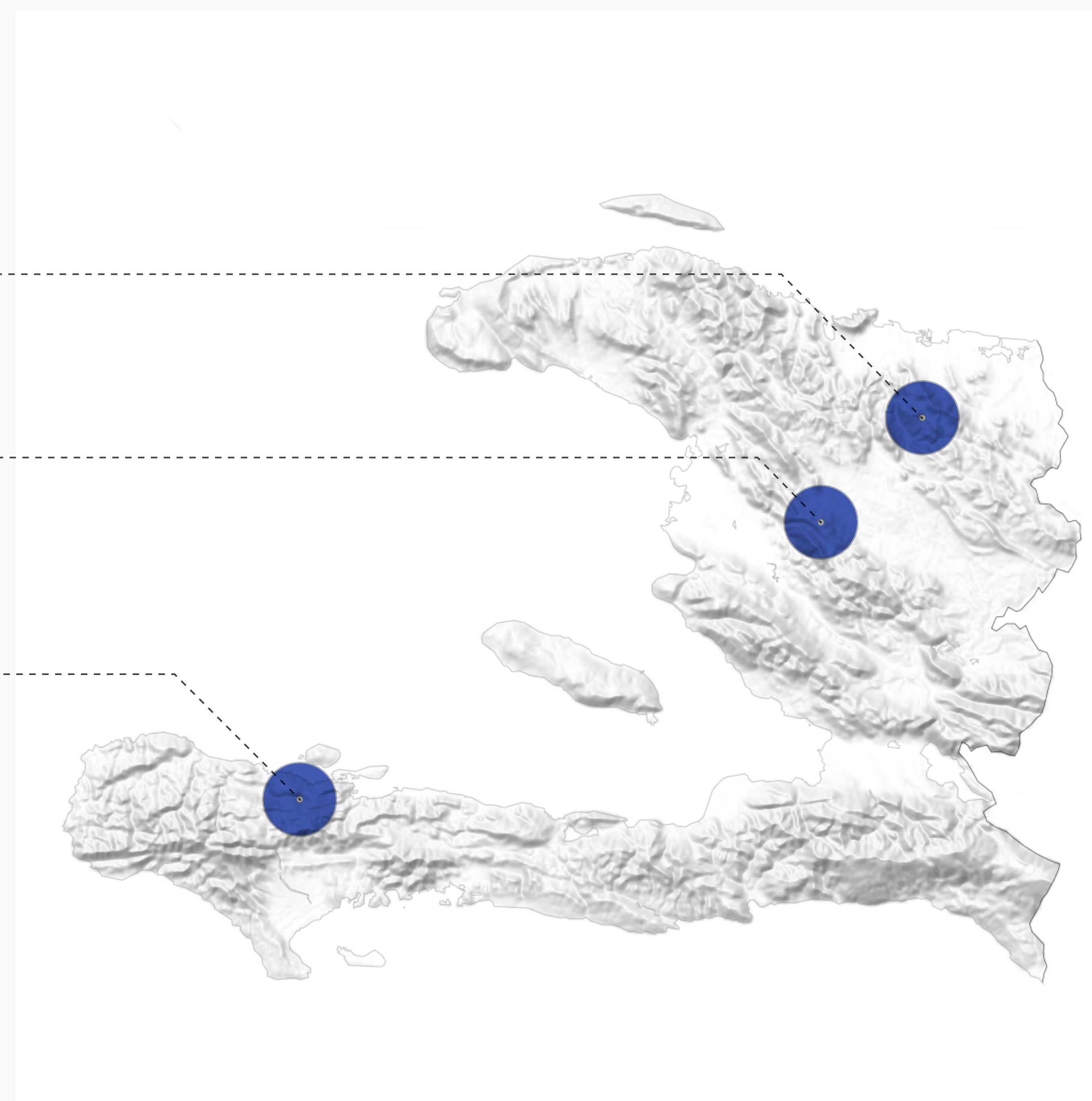
National Development Plan/ Overall Country Development Strategy

**Avant-Projet de Politique Énergétique de la République d'Haïti (Draft Energy Policy of the Republic of Haiti) <sup>1 2 3</sup>**

National Energy Policy

**Vision et Actions du Gouvernement Haïtien pour Amorcer Vers une Énergie Propre (Vision and Actions of the Haitian Government to Initiate Towards Clean Energy) <sup>5</sup>**

Renewable Energy (RE) Policy



## + SOCIOECONOMICS

Population Census/ Projection	<b>11,584,996 <sup>[1]</sup></b>
GDP (USD)	<b>\$20,254,048,506.80</b>
GDP (USD) Per Capita	<b>\$1,748.30 <sup>[1]</sup></b>
Gross National Income (GNI) Per Capita (USD)	<b>\$1,610.00 <sup>[2]</sup></b>
Debt as % of GDP	<b>100% <sup>[3]</sup></b>
Human Development Index	<b>0.535 <sup>[4]</sup></b>
RE Target	<b>23% by 2030 <sup>[6]</sup></b>

Total Installed Conventional Capacity (MW)	<b>348.68MW <sup>[9]</sup></b>
Total Installed RE (MW)	<b>70.61MW <sup>[6]</sup></b>
Electricity System Losses (%)	<b>45% <sup>[9]</sup></b>
Energy Use (kWh) Per Capita	<b>50 kWh <sup>[9]</sup></b>
National Repository for Energy Data	<b>None</b>

## + OTHER ENERGY SECTOR SUB-POLICIES

Climate Change Policy	<b>Politique Nationale de Lutte contre les Changements Climatiques (PNCC) (2019)</b>
	<b>National Policy for the Fight against Climate Change (PNCC) (2019)<sup>[7]</sup></b>
National Determined Contributions (NDC)	<b>Unconditional reduction of 6.32% compared to the baseline. (Réduction inconditionnelle de 6,32 % par rapport à la référence.)</b>
	<b>Conditional reduction of 25.5% compared to the baseline. <sup>[8]</sup> (Réduction conditionnelle de 25,5 % par rapport à la référence.)</b>

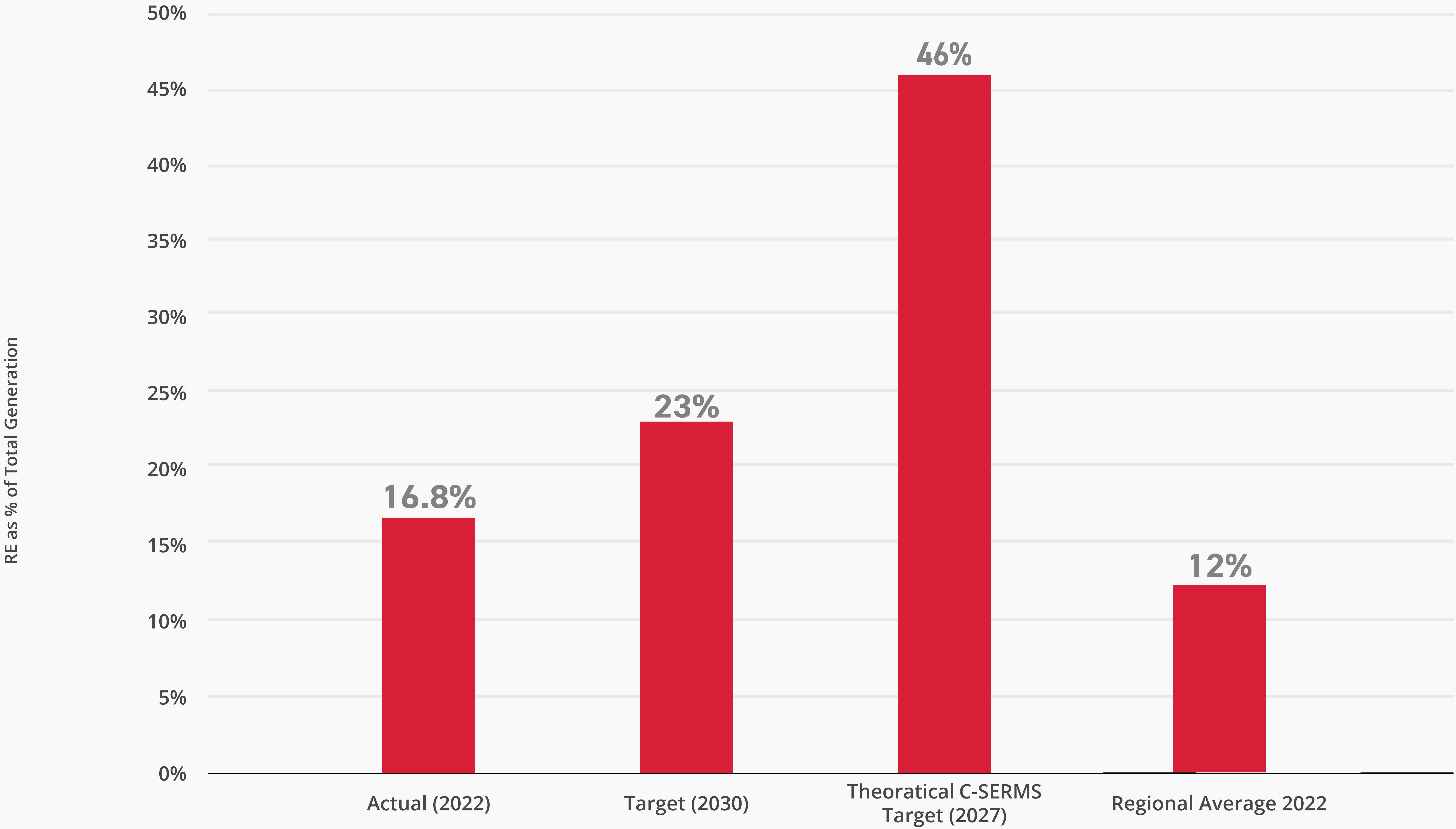
1. The Ten-year development plan for the electricity sector (Plan décennal de développement du secteur de l'électricité is being drafted.  
 2. [https://www.mtpct.gouv.ht/accueil/les-defis/page\\_mines-et-energie.html](https://www.mtpct.gouv.ht/accueil/les-defis/page_mines-et-energie.html)  
 3. No longer available online



# ENERGY SECTOR PERFORMANCE<sup>4</sup> [10][6][11]



## RENEWABLE ENERGY GENERAL AGAINST TARGETS



4. The total installed RE of 70.61 MW represents 16.84% of the total installed capacity in 2022.



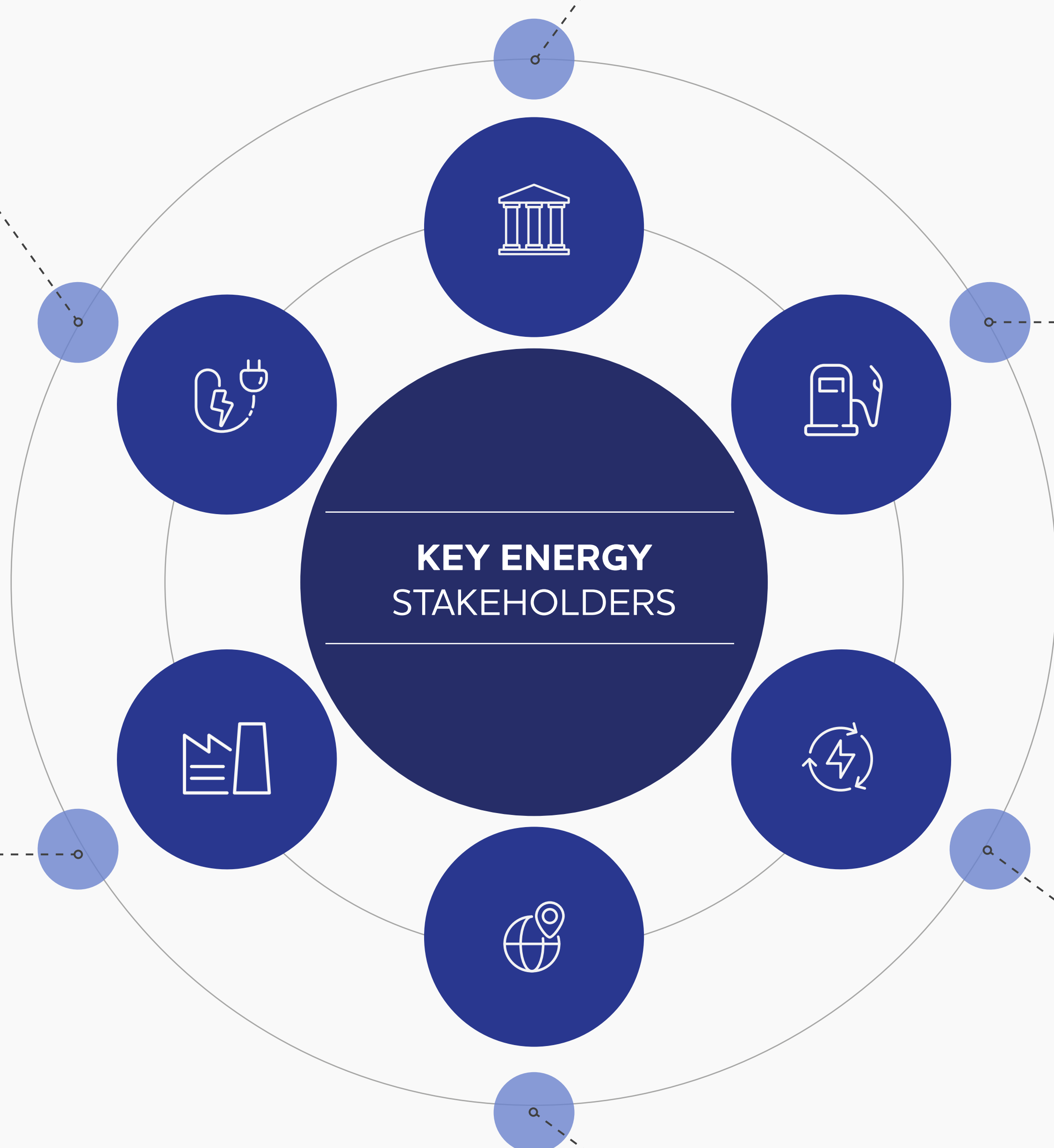
# KEY ENERGY STAKEHOLDERS

## Electricity Regulator

Autorité Nationale de Régulation du Secteur de l’Energie (National Authority of Regulation of the Energy Sector) [20]

## Independent Power Producer

E-Power [19]



## Government Ministries, Departments and Agencies

Ministère des Travaux Publics, Transport et Communications (Ministry of Public Works, Transport and Communications) [5]

- Energy Unit (Cellule Energie)
- L’Office d’Assurance Vehicules Contre Tiers (OAVCT) (The Third Party Vehicle Insurance Office)

Mistère de l’Environnement (Ministry of Environment) [12]

- Department du Changement Climatique (Department of Climate Change)

Bureau de Monétisation des Programmes d’Aide au Développement (PMPAD) (Office of Monetization of Development Assistance Programs) [13]

Bureau des Mines (Mines and Energy Office) [14]

## Fuel Importers & Suppliers

Bandari [15]

Dinasa [15]

Sol Haïti [15]

DNC [16]

Kimazout [17]

Capinvest [18]

## Electric Utility

Electricité D’Haïti (EDH) (Electricity of Haiti) [11]

## Microgrids

NRECA International [22]

Enèji pwòp ( is led by Earthspark International) [23]

Coopérative Electrique de l’Arrondissement de Coteaux (CEAC) (Cooperative Electricity of the Coteaux District) [24]

Sigora [25]



# POLICY, LEGAL AND REGULATORY (PLR) FRAMEWORK



## + POLICIES RELEVANT TO THE ENERGY SECTOR

### Haiti: Energy Sector Development Plan 2007 – 2032 ●

**2007** Enables decision-makers and various stakeholders to have a tool for managing the sector and provide an improvement to the severe energy crisis despite the fact that its local energy resources, in (particular biomass and to a lesser extent hydropower, satisfy about 80% of its energy needs. [29]

### Avant-Projet de Politique Énergétique de la République D'haïti (Draft Energy Policy of the Republic of Haiti) ●

**2012** The policy was designed to address the energy challenges of the country by meeting the needs of the population, promote energy efficiency and research and development in renewable energy and explore fossil fuel energy sources.

## + LEGISLATION RELEVANT TO THE ENERGY SECTOR

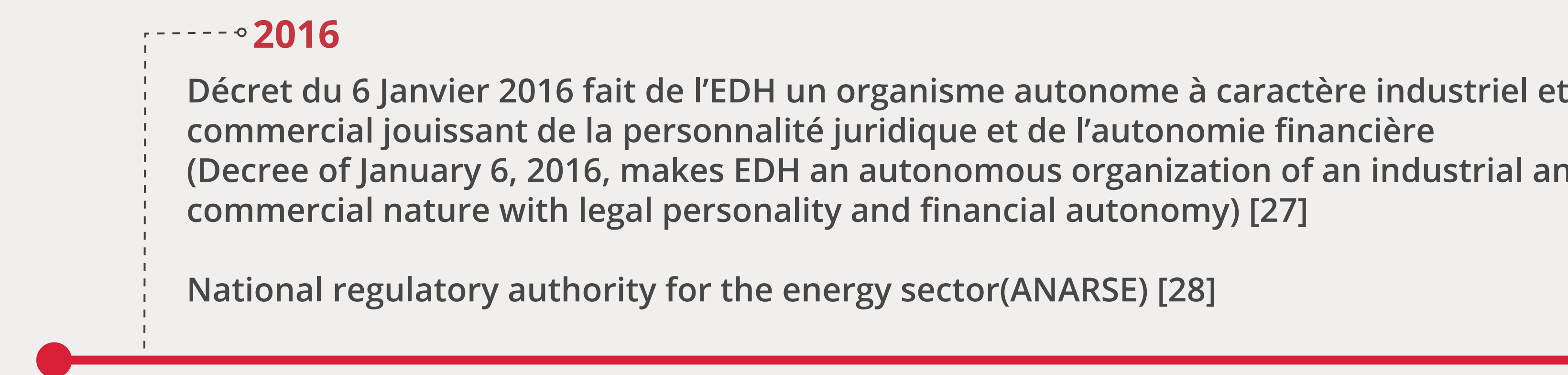
### Décret du 12 Octobre 2005 portant sur la gestion de l'environnement et la régulation de la conduite des citoyens et citoyennes pour un développement durable (Decree of October 12, 2005, on the management of the environment and the regulation of the conduct of citizens for a sustainable development) [30] ●

**2005** Recognising that the environment supports economic growth and influences the quality of life thereby it is imperative to safeguard and protect the environment.

### Décret du 6 Janvier 2016 régissant le secteur de l'énergie Électrique (Decree of January 6, 2016, governing the energy sector) [27] [30] ●

	YEAR
Energy Policy and Energy Action Plan <sup>5</sup> : ●	2012
RE Target: [6] ●	2015
EE Target:	
Electricity Regulator [26]: ●	2016
Net Billing/Net Metering [27]: ●	2016
Interconnection Policy/Standards: ●	
Feed-in-tariff: ●	
RE/EE Act: ●	

## + KEY ACHIEVEMENTS: PLR FRAMEWORK TIMELINE FOR ELECTRICITY SUB-SECTOR



● IN FORCE ● DRAFT ● NOT ESTABLISHED

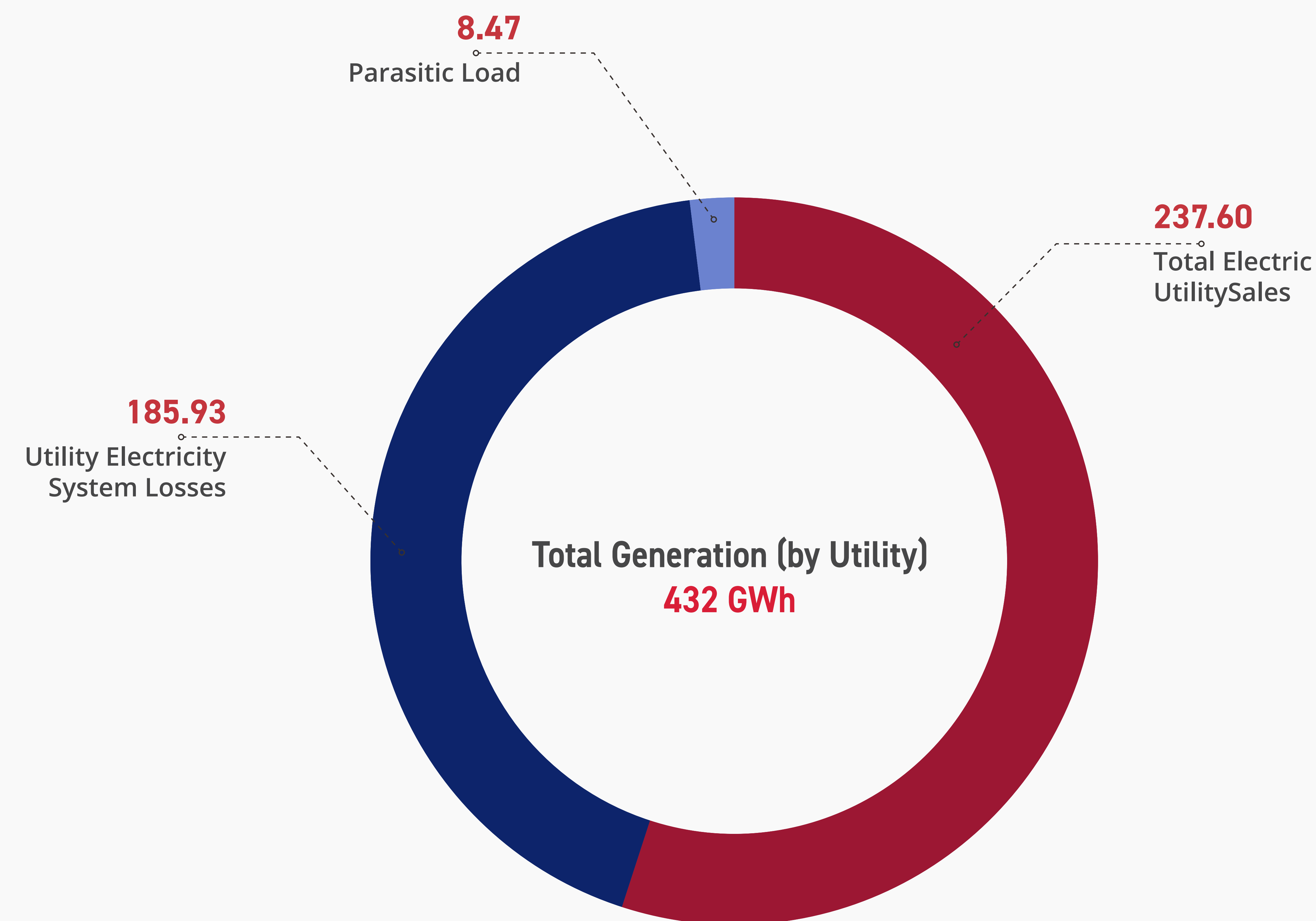
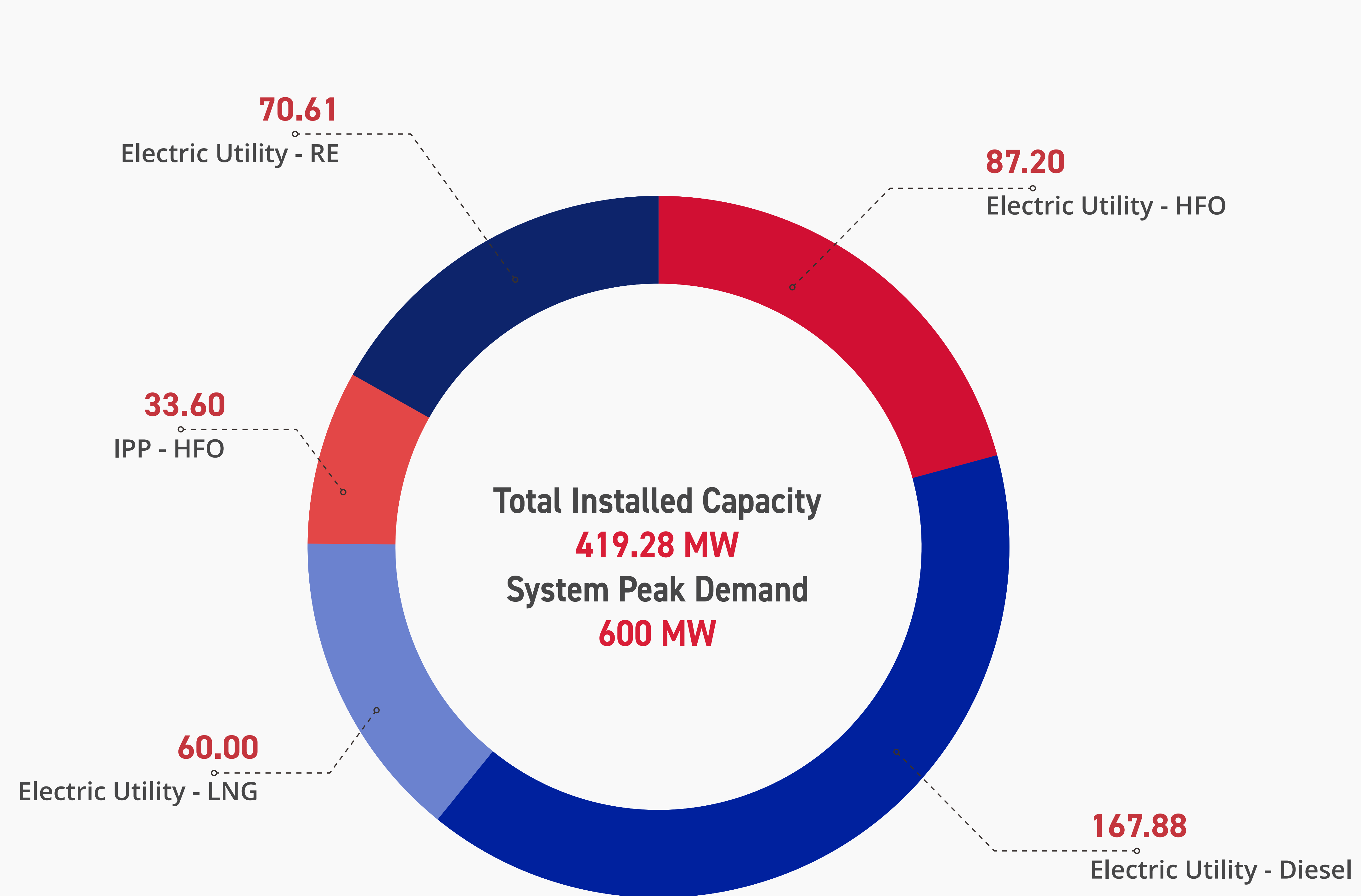
5. No longer available online



# ELECTRICITY & ENERGY EFFICIENCY [6] [10] [9] [30]

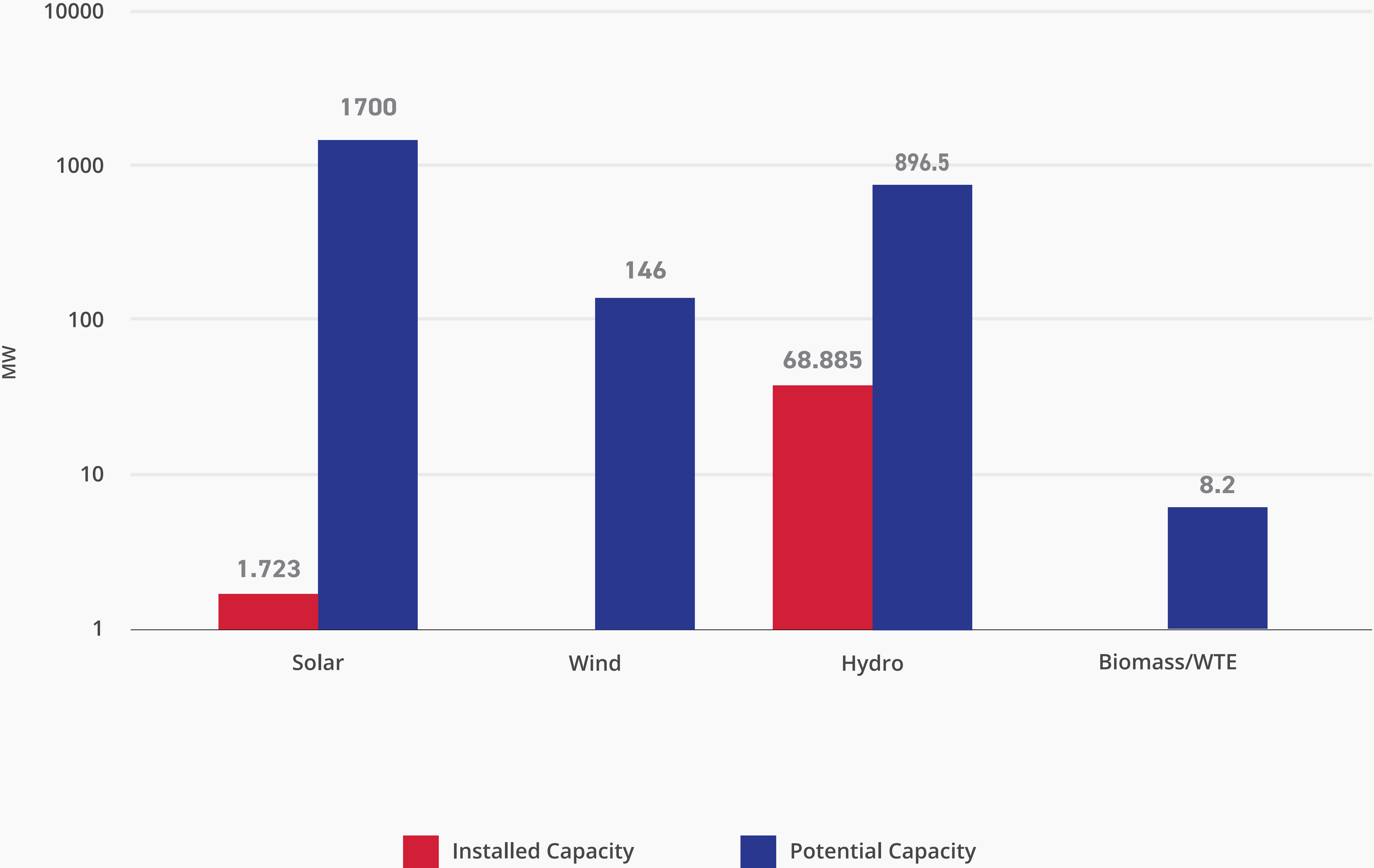
## + INSTALLED CAPACITY (MW)

## + ENERGY CONSUMPTION (GWh)





## RENEWABLE ENERGY RESOURCES<sup>6</sup>



6. Based on the solar irradiance and the recorded wind speeds the potential solar and wind energy generation are higher than reported. Further studies are required to determine the quantity.





# ELECTRICITY TARIFFS <sup>[31]</sup>



	kWh	Semi-Autonomous Centre <sup>7</sup> (US\$/kWh)	Port-au-Prince and other regions (US\$/kWh)
Residential Tariff (US\$/kWh) EDH	≤ 30	0.06	0.04
	31-200	0.06	0.04
	> 200	0.11	0.11
	Average	0.07	0.06
Commercial	≤ 30	0.1	0.1
	31-200	0.12	0.12
	> 200	0.13	0.13
	Average	0.12	0.12
Industrial Large Power	Off Peak Hours	0.11	0.11
	Peak Hours	0.12	0.12
	Average	0.12	0.12
Streetlights	≤ 30	0.12	0.12
	31-200	0.12	0.12
	> 200	0.12	0.12
	Average	0.12	

7. Refers to the areas outside of the PAP and the other established regions, viz. Saint-Marc, Jacmel, Les Cayes, and Cap-Haïtien



# PROJECTS IN THE PIPELINE



## + PROGRAMMES

Donor Funding and Technical Assistance Landscape	Donor Organization & Banks	Technical Assistance Providers	Funding Awards	Year	Status
Énergies Renouvelables pour Tous (SREP) [32]	Program du Fonds d'Investissement Climatique à travers la Banque Mondiale (Program of the Climate Investment Fund through the World Bank)	TTA (Trama Techno- Ambiental)	26,520,000 USD	2018	In Progress
Services Énergétiques Modernes (CTF) (Modern Energy Services) [32]	Clean Technology Fund du Fonds d'Investissement Climatique à travers la Banque Mondiale (Clean Technology Fund of the Climate Investment Fund through the World Bank)	TTA (Trama Techno- Ambiental)	15,650,000USD	2018	In Progress
Energie Renouvelable et Autonomisation des Femmes (ERAF) (Renewables Energy and Women's Empowerment) [32]	Japan Government/ United Nations Development Program	Bamboo Capital Partners	6,556,240 USD	2018	In Progress
Amélioration Accès à l'Électricité en Haïti (AMACEH) (Improving Access to Electricity in Haiti) [32]	Inter-American Development Bank	Tetra-Tech	38,000,000		In Progress
Projet de construction de la centrale solaire du miniréseau de Dondon (Construction of a solar minigrid at Dondon)	CREF (Caribbean Renewable Energy Fund)	ENZEN SPAIN			In Progress
Mise en concession des réseaux régionaux (Concessioneing of regional networks)	PPP (Partenariat Public Privé) Public Private Partnership		Not Available		In Progress

## + ENERGY EFFICIENCY PROJECTS

There were no Energy Efficiency projects reported for 2022.



# PROJECTS IN THE PIPELINE



## + RENEWABLE ENERGY PROJECTS

Renewable Energy Source	Resource and Projects Capacity	Development Partner	Funding Source	Ownership
Solar Photo-Voltaic [32]		Aline enèji	Off Grid Electricity Fund	Marchand Dessalines Community
	Solar: 2 300 kW Batt: 1 300 kWh Generator: 3 000 kVA	HER		Anse-à-Galet Community
	Solar: 270 kW Batt: 240 kWh Generator: 3 50 kVA	HER		Pointe à Raquette Community
	Solar: 84 kW Batt: 130 kWh	Earthspark	Banque Mondiale and Banque Interaméricaine de Développement (World Bank and Inter-American Development Bank)	Marfranc Community
	Solar: 58 kW Batt: 119 kWh			La Cahouane Community
	Solar: 707 kW Batt: 1 240 kWh			Dame-Marie Community
	Solar: 1 186 Batt: 2014			Anse-D'Hainault Community
	Solar: 398 kW Batt: 425 kWh			Beaumont Community
	Solar: 193 kW Batt: 486 kWh			Chambellan Community
	Solar: 400 kW Batt: 798 kWh Generator: 500 kVA			SKDK
	Solar: 1200 kWc Batt: 800 Kw/330 kWh	EDH	SREP	Jacmel Community
	Solar:280 kWc Generator: 400 kVA Batt: 758 kWh	EnviroEarth and ENERSA		Mont-Organisé Community
	Solar: 202 kWc Generator: 291 kVA Batt: 532 kWh	Green Energy and GENINOV		Capotille Community
	Solar: 202 kWc Generator: 291 kVA Batt : 532 kWh	Green Energy and GENINOV		Vallières Community
	Solar 1: 8 MWc Solar 2: 4 MWc	WINECO-Siemens-Living Energy-Win&R	World Bank	Caracol Community
Solar: 468 kW Generator: 1 024 kVA Batt: 559 kWh	ENZEN SPAIN			



# TERTIARY PROGRAMMES OFFERED



Name of Education Programme Provider	Vocational Certificate	Bachelor's degree	Programme Link
Faculty of Science (Faculté Des Sciences) State University of Haïti (Université d'Etat d'Haïti)		Electromechanical Engineering	<a href="http://fds.edu.ht/site/?page_id=1153">http://fds.edu.ht/site/?page_id=1153</a>
Quisqueya University		Electrical Engineering with options in Electrical Energy or Telecommunications	<a href="https://uniq.edu.ht/fsga/licence-en-genie-electrique/">https://uniq.edu.ht/fsga/licence-en-genie-electrique/</a>
Faculté des Sciences Appliquées (FDSA) (Faculty of Applied Sciences)		Electromechanical Engineering	
Université Lumière (Light University)		Electromechanical Engineering	
Université G.O.C (GOC University)		Electromechanical Engineering	<a href="https://ugoc.edu.ht/genie-electromecanique/">https://ugoc.edu.ht/genie-electromecanique/</a>
Haiti Tec	Electrotechnical		<a href="https://haititec-edu.com/wp-content/uploads/2018/10/electrotechnique.pdf">https://haititec-edu.com/wp-content/uploads/2018/10/electrotechnique.pdf</a>
Université Américaine des Sciences Modernes d'Haïti (UNASMOH) (American University of Modern Sciences of Haiti)		Electromechanical Engineering	<a href="https://unasmoh.edu.ht/Option.html#!">https://unasmoh.edu.ht/Option.html#!</a>
Centre Technologique Modernes d'Haïti (CETEMOH) (Modern Technology Center of Haiti)	Electromechanical		



# TRANSPORTATION SECTOR



No data was available for the transportation sector for 2022.



# CLIMATE CHANGE FRAMEWORK

## +

### SUMMARY OF HAITI GHG EMISSIONS AND REMOVALS (Gg) FOR 2015.<sup>[37]</sup>

<b>Climate Change Policy</b>	Politique Nationale de Lutte contre les Changements Climatiques (PNCC) 2019 (National Policy for the Fight against Climate Change (PNCC) (2019)) [7]
<b>National Determined Contributions [8]:</b>	Unconditional reduction of 6.32% compared to the baseline
	Conditional reduction of 25.5% compared to the baseline.
<b>Emissions Reduction Target:</b>	32% by 2030 [8]
<b>Priority Sectors for NDC [8]:</b>	<ul style="list-style-type: none"> <li>• Agriculture</li> <li>• Fishing</li> <li>• Infrastructure</li> <li>• Forests</li> <li>• Water resources</li> </ul>
<b>National Communications (NC) to the UNFCCC:</b>	Premiere Communication Nationale sur Changements Climatiques (First National Communication on Climate Change) [36]
	Deuxieme Communication Nationale sur Changements Climatiques (Second National Communication on Climate Change) [37]

	Emissions (Gg)						
	CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O	NO <sub>x</sub>	CO	NMVOCs	SO <sub>2</sub>
<b>Energy</b>	1447.66	1.91	0.26	14.09	300.97	30.91	13.58
<b>Industrial Processes</b>	0	0	0	0	0	80.17	0
<b>Agriculture</b>	0	158.86	4.63	0.53	13.94	0	0
<b>Land-Use Change &amp; Forestry</b>	1148.15	0.05	0	0.01	0.42	0	0
<b>Waste</b>	0	6.67	0.16	0	0	0	0
<b>Charcoal Production</b>	0	7.32	0	0.07	51.28	12.45	0
<b>Biomass</b>	5993	0	0	0	0	0	0



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