ecpa

Energy and Climate Partnership of the Americas

Needs and Priorities Assessment for Regional Cooperation [Draft]

2022–2024 ACTION PLAN

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Promoting cooperation for a sustainable energy future in the Americas

About **ECPA**

The Energy and Climate Partnership of the Americas is a program of the Department of Sustainable Development of the OAS that promotes sustainable energy development in the region towards a net-zero emissions future.

Our mission is to support member states in their transitions to clean, resilient and inclusive energy systems by acting as a platform for multilateral coordination, public-private cooperation and capacity building.

About this report

As the only clean energy forum, in which all countries in the Americas are represented, ECPA is committed to fostering initiatives that meet the priorities and particularities of each sub-region of the continent.

To this end, consultations were held with the National Focal Points of 33 countries in the region to identify their specific needs, areas of expertise and projects on clean energy and climate action.

As a result, the Technical Coordination Unit has been able to establish a database of great potential value for building synergies, facilitating cooperation on common interests and establishing new partnerships among countries and stakeholders interested in the region's sustainable energy development.

As a first step, the following report has been prepared to provide a snapshot of the data collected in order to encourage its review and categorization.

As the project moves forward, feedback on this document will serve as the basis for the development of a digital tool that could enhance the value of the data obtained, democratize access and offer functionalities that facilitate the updating of information and interaction between the parties.

02 / Regional Outlook

The consultations that shaped this project focused on six fields, which were recognized as key to advancing energy transitions in the region throughout the ECPA ministerial process and the IX Summit of the Americas held in Los Angeles in 2022.

a. Cleaner Energy

b. Energy Access & Security

c. Energy Efficiency

d. Energy Infrastructure

e. Electric Mobility

f. Decarbonization

The information provided by the participating member states made it possible to conduct a regional analysis of the critical challenges in sustainable energy development and to identify opportunities for cooperation among countries.

The following segment reviews each field, listing the countries that expressed interest in cooperating in this area, as well as the specific issues that were highlighted as the most relevant.

a. Cleaner Energy

20 countries are looking forward to cooperating on this subject

Antigua and Barbuda	Ecuador	Panama
Argentina	Guatemala	Saint Lucia
Belize	Guyana	Saint Vincent and the Grenadines
Brazil	Haiti	Suriname
Costa Rica	Honduras	Trinidad and Tobago
Dominica	Jamaica	United States
Dominican Republic	Nicaragua	

Trending priorities

1. Battery energy storage
2. Accelerating utility-scale wind, solar, and biogas power

b. Energy Access & Security

15 countries are looking forward to cooperating on this subject

Argentina	Guyana	Panama
Belize	Haiti	Saint Lucia
Brazil	Honduras	Saint Vincent and the Grenadines
Dominica	Jamaica	Suriname
Guatemala	Nicaragua	United States

Trending priorities

1. Access to affordable, reliable and modern energy
2. Rural electrification

c. Energy Efficiency

15 countries are looking forward to cooperating on this subject

Antigua and Barbuda	Dominica	Panama
Belize	Dominican Republic	Peru
Brazil	Ecuador	Saint Lucia
Canada	Honduras	Saint Vincent and the Grenadines
Chile	Jamaica	Trinidad and Tobago

Trending priorities

1. Energy efficiency in public and private buildingsr

d. Energy Infrastructure

14 countries are looking forward to cooperating on this subject

Antigua and Barbuda
Argentina
Belize
Brazil
Costa Rica
Dominica
Dominican Republic
Ecuador
Guatemala
Guyana
Honduras
Jamaica
Panama
Uruguay

Trending priorities

1. Resilient energy infrastructure
2. Regional integration
3. Modernization of transmission and distribution grids
4. Renewables integration to the grid
5. Networks digitalization

e. Electric Mobility

10 countries are looking forward to cooperating on this subject

Chile
Dominican Republic
Guatemala
Haiti
Honduras
Jamaica
Nicaragua
Panama
Peru
Saint Lucia

Trending priorities

1. Electrification of private and public transport
2. EV charging infrastructure

f. Decarbonization

10 countries are looking forward to cooperating on this subject

Brazil
Canada
Chile
Dominican Republic
Ecuador
Guyana
Panama
Trinidad and Tobago
United States of America
Uruguay

Trending priorities

1. Hydrogen
2. Waste-to-energy
3. Carbon capture and sequestration

g. Cross-sectorial

20 countries are looking forward to cooperating on this subject

Antigua and Barbuda
Argentina
Brazil
Canada
Chile
Costa Rica
Dominica
Dominican Republic
Ecuador
Guatemala
Honduras
Jamaica
Panama
Peru
Saint Lucia
Saint Vincent and the Grenadines
Suriname
Trinidad and Tobago
United States of America
Uruguay

Trending priorities

1. Just energy transition
2. Social and economic impacts of energy transitions
3. Education and energy transition
4. Nationally appropriate mitigation actions (NAMAs)
5. Nationally determined contributions (NDCs)
6. Procurement

03 / Insights by Country

Below is the information provided by each country, segmented by topic, and showing the identified priorities, as well as the areas, technologies and tools that each country is working on as part of its strategy to accelerate the energy transition.

The objective of this draft document is to encourage the exchange of information that will allow the data presented in this version to be updated.

03 / Insights by Country

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Antigua & Barbuda

Cleaner Energy
Priorities identified:
Accelerating utility-scale wind, solar, and biogas power: Switching to hybrid energy sources (wind and solar energy projects). Switching to LNG.
Specific areas, technologies or tools the country is exploring
The Green Barbuda project. Additional resources are needed to acquire solar and wind energy infrastructure as well as battery storage, particularly to meet forecast future energy demand, including the transition to electric vehicles. On Antigua, accelerating utility-scale RE integration will require investments in the physical upgrading of the grid as well as load flow, short circuit, transient stability analysis, and frequency stability analysis studies. Introduction of natural gas as a source for electricity generation is underway. The switch to LNG will benefit from the experience of other territories and countries, including the USA and USVI.

Energy Efficiency
Priorities identified:
Energy efficiency programs in public and private buildings.
Specific areas, technologies or tools the country is exploring
Energy audits in government buildings, followed by training to staff on efficient energy consumption. Retrofitting of equipment, particularly lighting. Radio, television and schools public awareness. Regional standards for energy efficiency in buildings and appliances currently being utilized. Energy efficiency testing of electrical equipment.

Energy Infrastructure
Priorities identified:
Strong, flexible and integrated grid to accommodate RE energies and other cleaner sources. LNG infrastructure.
Specific areas, technologies or tools the country is exploring

Modernization of transmission and distribution grids.

Shift to underground cabling in some areas, particularly commercial areas, and Barbuda.

Training and capacity building on climate resilience to extreme weather events and other natural and man-made emergency events.

Introduction of natural gas as a source of electricity generation is underway and is forecast to significantly reduce greenhouse gas emissions in the electricity sector.

Efforts are underway for a phased transition to 100% green energy on Barbuda using solar, wind, and battery storage with stand-by diesel as an emergency option.

Electric Mobility

Specific areas, technologies or tools the country is exploring

Discussions underway at regional and subregional levels on developing integrated strategies for public e-mobility, taking into consideration current and planned energy futures.

Incentives include reduction of import tariffs on electric vehicles.

Additional support for RE-powered charging stations.

Cross-sectorial

Priorities identified:

Social and economic impacts of energy transitions: Post-pandemic economic recovery, green jobs, etc.

Education and the energy transition: Training, skills development, behavioral changes, etc.

Implementation of NAMAs.

Implementation of NDCs

Specific areas, technologies or tools the country is exploring
NAMAs: Cooperation through the OECS Commission in facilitating the documentation and project preparation processes necessary for developing and implementing NAMA initiatives.

Argentina

Cleaner Energy
Priorities identified:
Accelerating utility-scale wind, solar, and biogas power: Renewable electricity generation and insertion to the grid.
Specific areas, technologies or tools the country is exploring
Distributed generation and fiscal incentives with a focus on provinces.

Energy Access & Security
Priorities identified:
Access to affordable, reliable and modern energy: Social tariffs and subsidies. Access to renewable energy and natural gas in isolated rural markets.
Specific areas, technologies or tools the country is exploring
Distributed generation and fiscal incentives with a focus on provinces.

Energy Infrastructure

Priorities identified:

Electricity interconnection.

Natural gas infrastructure.

Specific areas, technologies or tools the country is exploring

Electricity interconnection: Enhancing power transmission and interconnectivity.

Extension of natural gas distribution infrastructure.

Cross-sectorial

Priorities identified:

Social and economic impacts of energy transitions: Post-pandemic economic recovery, green jobs, etc.

Education and the energy transition: Training, skills development, behavioral changes, etc.

Implementation of NDCs.

Specific areas, technologies or tools the country is exploring

Social and economic impacts of energy transitions: Reconstruction of labor markets.

Nationally-determined contributions (NDCs): Accelerate implementation of NDCs and develop Long term strategies.

Belize

Cleaner Energy
Priorities identified:
Generation of renewable energy from local resources. Creation of new opportunities in LNG and waste-to-energy.
Specific areas, technologies or tools the country is exploring
Implementation of hydropower, solar, wind and biomass, including in the tourism sector. Implementation of an interconnection policy and regulatory framework to facilitate distributed renewable power generation by 2022. Expansion of biomass use, including bagasse, for electricity generation. Take 2MW diesel generation offline by 2022 and convert new LPG generation to CNG by 2026.

Energy Access & Security
Specific areas, technologies or tools the country is exploring
Deployment of micro-grids for energy access.

Energy Efficiency
Priorities identified:
Improve energy efficiency and conservation in public and private buildings by at least 10% by 2030.
Specific areas, technologies or tools the country is exploring
Appliance efficiency in public buildings. Implementation of building codes standards and labels

Energy Infrastructure
Priorities identified:
Construction of a connection to SIEPAC.

Brazil

Cleaner Energy
Priorities identified:
Expansion of nuclear power. Expansion of bioenergy.
Specific areas, technologies or tools the country is exploring
Promotion of RenovaBio Program. Construction of new nuclear plants and development of small modular reactors (SMRs.)

Energy Access & Security
Priorities identified:
Energy poverty. Increase the number of people connected to the grid.

Energy Access & Security
Specific areas, technologies or tools the country is exploring

Expand "More Light for the Amazon" Program.

Increase by 16% the number of residential electricity consumers on the grid, equivalent to 12 million additional connections over the next 10 years.

Initiatives that will adapt institutional, legal and regulatory frameworks to guarantee universal access to modern, clean and accessible energy sources, in line with the Sustainable Development Goals established by the United Nations.

Energy Efficiency

Priorities identified:

Decarbonization through EE.

Specific areas, technologies or tools the country is exploring

Building labeling policies endorsed by the Brazilian Building Labeling Program (PBE Edifica) and the Procel Edifica Seal to contribute to reducing residential energy demand.

Strategic plan of long-term actions for the efficient use of energy in various sectors of society.

Energy Infrastructure

Priorities identified:

Promotion of regional energy integration.

Expansion of wind and solar energy to 40 GW installed capacity within the next 10 years.

Modernization of the energy sector.

Promotion of the RenovaBio program.

Development of stable and transparent regulatory frameworks that foster energy infrastructure growth.

Specific areas, technologies or tools the country is exploring

Electrical and gas interconnections in South America.

Proactive transmission studies aimed to anticipate the planning, sizing and recommendations of large trunks for the flow of the previously prospected generation.

Decarbonization

Priorities identified:

Carbon capture and sequestration: Pro Bio CCS.

Waste-to-energy.

Promotion of hydrogen.

Program for the sustainable use of national mineral coal.

Specific areas, technologies or tools the country is exploring

Regulation of capture activities and geological storage of carbon dioxide (CO2) from various stationary sources.

Auction for contracting projects for energy use of solid urban waste.

Establishment of the National Hydrogen Program.

Structuring of the broader carbon market in Brazil so that there can be long-term price signals and lower emission abatement costs.

Cross-sectorial
Priorities identified:
Contributions to the NDCs.
Specific areas, technologies or tools the country is exploring
Integration of energy and transportation policies with a view to reducing emissions. Implementation of carbon pricing mechanisms and payment for environmental services programs. Expansion of waste-to-energy applications. Promotion of innovative low-carbon technologies such as hydrogen and green diesel. Implementation of renewable sources, including hydroelectricity, energy efficiency, biofuels and nuclear.

Cleaner Energy
Priorities identified:
Specific areas, technologies or tools the country is exploring

Electric Mobility
Priorities identified:
Specific areas, technologies or tools the country is exploring

Decarbonization
Priorities identified:
Specific areas, technologies or tools the country is exploring

03 / Insights by Country

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Antigua & Barbuda

Cleaner Energy
Priorities identified:
Accelerating utility-scale wind, solar, and biogas power: Switching to hybrid energy sources (wind and solar energy projects). Switching to LNG.
Specific areas, technologies or tools the country is exploring
The Green Barbuda project. Additional resources are needed to acquire solar and wind energy infrastructure as well as battery storage, particularly to meet forecast future energy demand, including the transition to electric vehicles. On Antigua, accelerating utility-scale RE integration will require investments in the physical upgrading of the grid as well as load flow, short circuit, transient stability analysis, and frequency stability analysis studies. Introduction of natural gas as a source for electricity generation is underway. The switch to LNG will benefit from the experience of other territories and countries, including the USA and USVI.

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03 / Insights by Country

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