

ENERGY COMPACT

 **EC13: TECHNOLOGY AND DATA INNOVATION: Transparency**

through data from the Energy Sector



**United
Nations**



HIGH-LEVEL DIALOGUE ON
ENERGY
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UN ENERGY



SECTION 1: AMBITION

1.1. Ambitions to achieve SDG7 by 2030. [Please select all that apply]

(Member States targets could be based on their NDCs, energy policies, national five-year plans etc. targets for companies/organizations could be based on their corporate strategy)

7.b. By 2030, provide access to transparent data and energy statistics for the entire energy sector in Honduras.

Target(s):

- 1. Contribute to the digitization process in the energy sector.**
- 2. Guarantee transparent access to reliable energy data and statistics through the implementation of the Energy Information System (SieHonduras).**
- 3. Characterize the final energy demand by use in the different consumption sectors in Honduras and consolidate the official energy data on the SieHonduras platform.**
- 4. Strengthen institutional capacities for the administration, information processing and digitization of the country's energy sector.**
- 5. Accessibly and periodically publish to the entire population about the country's energy indicators to achieve a fair energy transition.**

Time frame: 2030

Context for the ambition(s):

The information is a basic tool for the energy transition of Honduras since it allows the evaluation of the present state and the construction of the vision of the energy sector. Without complete and reliable information on how energy is consumed and obtained, it is not possible to establish continuous improvement processes that guide the population into the construction of a sustainable behavior in energy consumption. Obtaining information is as important as having transparent access to it, which will be achieved through SieHonduras, a project supported by the Latin American Energy Organization (OLADE) and is developing the Program for Strengthening Management and Diffusion of Energy Information for Sustainable Development in Latin America and the Caribbean, which has the financial support of the Inter-American Development Bank (IDB). The SieHonduras will allow the integration, processing, and diffusion of statistical, prospective, socioeconomic, legal, and documentary information of the energy sector, based on standardized methodologies and concepts and that allows the consolidation of energy information at the national, subregional, and regional levels.

In the country there are several challenges to establish the research bases in energy matters, from energy statistics, trained and qualified professionals with advanced multidisciplinary knowledge, an ecosystem of collaboration between all market agents, technological development and manage, update, and distribute knowledge, among others.

SECTION 2: ACTIONS TO ACHIEVE THE AMBITION

2.1. Please add at least one key action for each of the elaborated ambition(s) from section 1. *[Please add rows as needed].*

7.3.b. By 2030, expand infrastructure and upgrade technology for the provision of modern and sustainable energy services for everyone in developing countries, especially least developed countries, small island developing States and landlocked developing countries, in accordance with their respective support programs.

1. Contribute to the digitization process in the energy sector.

- Development of the Modernization Plan for Measurement in distribution systems and high consumption in the country.
- Development of the Smart Measurement Plan in the country's distribution systems.
- Development of a Smart Measurement Plan in the distribution centers of liquid and gaseous fuels in the country.
- Develop sector policy with components of innovation and digitization of the Energy Sector.
- Develop the Strategic Plan for Digitization and Innovation for the Energy Sector.
- Strengthen information exchange networks for digitization processes among national institutions.
- Carry out Start-up implementation studies that enable the digitization of the sector.
- Promote the formulation of the enabling legal framework for the implementation of digitization.
- Availability of the national electricity market information system.

January 2022 – December 2025
January 2023 – December 2030
January 2022 – December 2025
January 2022 – December 2030
January 2020 – December 2025
January 2022 – December 2024
January 2022 – December 2030
January 2022 – December 2023
January 2022 – December 2025

2. Guarantee access to transparent data and reliable energy statistics through the implementation of the National Energy Information System (SieHonduras)

- Creation of the Interinstitutional Commission for energy information and its legalization process through a ministerial agreement.
- Collection of information through surveys by the consumer sector.
- Identification of the processes, data and statistics that need to be digitized.
- Centralize official energy data in a single platform (SieHonduras).
- Define data publication policies.
- Socialization of the SieHonduras through the related actors, in addition to the Secretariat of Energy (SEN), other institutions such as the Secretariat of State in the Office of Natural Resources and Environment (MI AMBIENTE), Civil Aeronautics, and others will be integrated.
- Provide technical support and maintenance to computer applications according to the agreement of the parties.
- Update the data available in SieHonduras.
- Processes of functional requirements to make the SieHonduras available
- Production and maintenance, the result of this stage will be the system ready for operation:
 - a. Server installation and configuration: delivering the software, System Installation or Configuration Manual, configuring the server according to the scenario selected by the country and training IT specialists and system administrators.
 - b. Publication and commissioning of the system.
 - c. Training for information providers and SieHonduras administrators on the use of the system, procedures for uploading historical information to the system and obtaining reports, methodologies and calculations, validation techniques and information quality control.
 - d. Distribution of the SieHonduras, where the mechanisms and promotional material will be established.
 - e. Maintenance of the system after its operation.

June 2022 – June 2030

3. Characterize the final energy demand by use in the different consumption sectors in Honduras and consolidate all the official energy data in the SieHonduras platform.

- Carry out surveys or censuses of energy consumption in the residential sector.
- Carry out energy surveys or audits in the industrial sector.
- Carry out energy surveys or audits in the commercial sector.
- Carry out energy surveys or audits in the public sector.
- Carry out energy surveys or audits in the agriculture, mining, and construction sectors.

January 2022 – May 2023
(Residential Sector)

January 2022 – December 2025
(other sectors)

<p>4. Strengthen institutional capacities for the administration, information processing and digitization of the country's energy sector.</p> <ul style="list-style-type: none"> • Training of institutions in bigdata. • Training of institutions in data analysis. • Training of institutions in cybersecurity. • Training of institutions in smart grids. • Training of institutions in blockchain. • OLADE will provide specialized technical advice on energy and information technology SieHonduras, as well as on the use of tools. 	<p><i>September 2021 – December 2030</i></p>
<p>5. Publish periodically to the entire population about the country's energy indicators to achieve a just energy transition.</p> <ul style="list-style-type: none"> • Establish the different means of communication through which the general population can be informed about the results of surveys and energy indicators in the country. • Monthly and annual publication of indicators on the website of the Secretariat of Energy (SEN) and the SieHonduras platform. 	<p><i>September 2021 – December 2030</i></p>

SECTION 3: OUTCOMES

3.1. Please add at least one measurable and time-based outcome for **each** of the actions from section 2. *[Please add rows as needed].*

Outcome 1.0 Document of the Modernization Plan for Measurement in distribution systems and high consumption in the country.	December 2023
Outcome 1.1 The Modernization Plan for Measurement in the distribution and high consumption systems of the country and the financing strategy have been developed and approved.	December 2025 (first phase) December 2030 (second phase)
Outcome 1.2 Smart Measurement Plan Document in the country's distribution systems.	December 2023
Outcome 1.3 The Smart Measurement Plan in the country's distribution systems and the financing strategy was developed and approved.	December 2025 (first phase) December 2030 (second phase)
Outcome 1.4 Smart Measurement Plan Document in the distribution centers of liquid and gaseous fuels in the country.	December 2025
Outcome 1.5 The Smart Measurement Plan in the distribution centers of liquid and gaseous fuels in the country was developed and approved.	December 2030
Outcome 1.6 Sector Policy Document with components of innovation and digitization of the energy sector.	December 2025
Outcome 1.7 Document of Strategic Plan for Digitization and Innovation of the Energy Sector.	December 2024
Outcome 1.8 Established strategic alliances with Academia, public and private institutions, with links in energy research issues.	December 2030
Outcome 1.9 Start-up implementation studies.	December 2023
Outcome 1.10 Information system of the national electricity market.	December 2025
Outcome 2.0 Inter-institutional Energy Information Commission formed and legalized, which will provide and facilitate the sustainability and continuous improvement of the developed SieHonduras.	December 2022
Outcome 2.1 Platform of the National Energy Information System (SieHonduras) socialized and available.	January 2022
Outcome 3.0 The census of energy consumption in the residential sector was carried out and the official energy data consolidated in the SieHonduras platform.	May 2023
Outcome 3.1 Determined the final energy demand by use by consumption sector (residential, commercial, industrial, public, agricultural, mining, construction) and the official energy data consolidated in the SieHonduras platform.	December 2025
Outcome 4.0 Human resource trained for the collection, administration, processing, validation of the statistical information of the SieHonduras Platform.	December 2030
Outcome 4.1 Human resource trained in the subject of big data, data analysis, cyber-security, smart grids, blockchain.	December 2030
Outcome 5.0 Published energy indicators of the country.	December 2030

SECTION 4: REQUIRED RESOURCES AND SUPPORT

4.1. Please specify required finance and investments for **each** of the actions in section 2.

Activity	Supplies	Value (USD)
- Consultancy for the evaluation of the digitization of the energy sector and creation of the digitization deployment policy in the energy sector of Honduras. -Consulting for the development of Modernization Plans for Measurement in distribution systems and high consumption, intelligent measurement in distribution systems, measurement in the distribution centers of liquid and gaseous fuels in the country.	<ul style="list-style-type: none"> • Professional services (consulting) • Exchange of experiences • Personnel training 	USD \$400,000.00
Application of energy audits, surveys and / or censuses in the different sectors to characterize energy demand.	<ul style="list-style-type: none"> • Technical staff (consulting services) • Tools, materials and / or equipment 	USD \$250,000.00
Periodic and accessible publication to the entire population of energy poverty indicators to achieve a just energy transition.	<ul style="list-style-type: none"> • Maintenance of the website • Conducting annual surveys • Annual publications 	USD \$ 10,000.00
Training of people linked to the energy sector in the areas of: -Bigdata. -Analysis of data -Cyber-security -Intelligent networks -Blockchain	<ul style="list-style-type: none"> • Workshops / trainings • Consulting services 	USD \$100,000.00
TOTAL		USD \$ 760,000.00

4.2. [For countries only] In case support is required for the actions in section 2, please select from below and describe the required support and specify for which action.

[Examples of support for Member States could include Access to low-cost affordable debt through strategic de-risking instruments, capacity building in data collection; development of integrated energy plans and energy transition pathways; technical assistance, etc.]

<input type="checkbox"/> Financing	<i>Configuration of SieHonduras on OLADE's servers, the development and implementation process of the system will be financed with funds from the Program for Strengthening the Management and Diffusion of Energy Information for Sustainable Development in Latin America and the Caribbean financed by the Inter-American Development Bank (IDB), executed by OLADE and administered by the Secretariat of Energy of Honduras (SEN).</i>
<input type="checkbox"/> In-Kind contribution	<p><i>Honduras, as a counterpart, will contribute with the participation and work of the national team who will be in charge of determining the functional requirements of the system and compiling the energy information with which the SieHonduras will be fed.</i></p> <p><i>Logistical contribution (provision of meeting rooms, coordination in the convocation of national actors, among others), during the organization of the missions of OLADE officials and consultants and the holding of the workshops that are contemplated.</i></p> <p><i>Technical capacities of the Secretariat of State in the Energy Office (SEN), National Directorate of Energy Planning and Sector Energy Policy (DNPEPES), Latin American Energy Organization (OLADE), General Directorate of Renewable Energy and Energy Efficiency (DGEREE), General Directorate Electricity and Markets (DGEM) and General Directorate of Hydrocarbons and Biofuels (DGHB).</i></p>
<input type="checkbox"/> Technical Support	<i>Consultancies to generate information to strengthen capacities.</i>
<input type="checkbox"/> Other/Please specify	<i>For the execution of the activities, a budget of USD \$ 760,000.00 (seven hundred and sixty thousand dollars) is established.</i>

SECTION 5: IMPACT

5.1. Countries planned for implementation including number of people potentially impacted.

Republic of Honduras.

5.2. Alignment with the 2030 Agenda for Sustainable Development – Please describe how **each** of the actions from section 2 impact advancing the SDGs by 2030.

[up to 500 words, please upload supporting strategy documents as needed]

The implementation of the National Energy Information System (SieHonduras) contributes to continuous improvement in technological processes for accessing free and open information on energy data and statistics in the country. The technical and administrative capacities of the energy authority are strengthened, and energy information is digitized using modern and sustainable computer tools. In the same way, it facilitates the monitoring of policies, plans and other energy and development indicators in the country. It also contributes directly to SDGs 7 and 9, and enables the other SDGs.

5.3. Alignment with Paris Agreement and net-zero by 2050 - Please describe how **each** of the actions from section 2 align with the Paris Agreement and national NDCs (if applicable) and support the net-zero emissions by 2050.

[up to 500 words, please upload supporting strategy documents as needed]

All the activities of section 2 aim to provide transparent access to energy data and statistics of the country, through the creation and operation of the Energy Information System of Honduras (SieHonduras), the energy information of the country is provided freely and free of charge. , including current and historical information, which strengthens the processes of transparency and access to information. Likewise, it contributes to a better use of energy and provides resilience in the national energy sector.

SECTION 6: MONITORING AND REPORTING

6.1. Please describe how you intend to track the progress of the proposed outcomes in section 3. Please also describe if you intend to use other existing reporting frameworks to track progress on the proposed outcomes.

Monitoring 1.0 Modernization Plan for Measurement in distribution systems and high consumption in the country.

Monitoring 1.1 Smart Measurement Plan in the country's distribution systems.

Monitoring 1.2 Smart Measurement Plan in the distribution centers of liquid and gaseous fuels in the country.

Monitoring 1.3 Preparation of a diagnosis for the adoption of digitization of the energy sector and creation of the policy for the deployment of digitization in the energy sector of Honduras.

Monitoring 1.4 Establishment of biannual meetings with Academia, public and private institutions, with links in research issues in energy matters.

Monitoring 1.5 Start-up implementation study.

Monitoring 2.0 Document of conformation and legalization of the Inter-institutional Energy Information Commission.

Monitoring 2.1 SieHonduras is launched and operational.

Monitoring 2.2 Information updates in sieHonduras.

Monitoring 3.0 Surveys of final energy use by sector.

Monitoring 3.1 Publication of data obtained in surveys in SieHonduras and in cases of information requirements.

Monitoring 4.0 Annual training for human resources at the energy and computer level, on the collection, administration, processing, validation of statistical information from the SieHonduras Platform.

Monitoring 4.1 Annual training for human resources on topics related to big data, data analysis, cyber-security, smart grids, blockchain.

Monitoring 5.0 Annual publication of energy indicators of the country.

SECTION 7: GUIDING PRINCIPLES CHECK LIST

Please use the checklist below to validate that the proposed Energy Compact is aligned with the guiding principles.

- I. Stepping up ambition and accelerating action** - Increase contribution of and accelerate the implementation of the SDG7 targets in support of the 2030 Agenda for Sustainable Development for Paris Agreement
- I.1. Does the Energy Compact strengthen and/or add a target, commitment, policy, action related to SDG7 and its linkages to the other SDGs that results in a higher cumulative impact compared to existing frameworks? Yes No*
- I.2 Does the Energy Compact increase the geographical and/or sectoral coverage of SDG7 related efforts? Yes No*
- I.3 Does the Energy Compact consider inclusion of key priority issues towards achieving SDG7 by 2030 and the net-zero emission goal of the Paris Agreement by 2050 - as defied by latest global analysis and data including the outcome of the Technical Working Groups? Yes No*
- II. Alignment with the 2030 agenda on Sustainable Development Goals** – Ensure coherence and alignment with SDG implementation plans and strategies by 2030 as well as national development plans and priorities.
- II.1. Has the Energy Compact considered enabling actions of SDG7 to reach the other sustainable development goals by 2030? Yes No*
- II.2. Does the Energy Compact align with national, sectoral, and/or sub-national sustainable development strategies/plans, including SDG implementation plans/roadmaps? Yes No*
- II.3. Has the Energy Compact considered a timeframe in line with the Decade of Action? Yes No*
- III. Alignment with Paris Agreement and net-zero by 2050** - Ensure coherence and alignment with the Nationally Determined Contributions, long term net zero emission strategies.
- III.1. Has the Energy Compact considered a timeframe in line with the net-zero goal of the Paris Agreement by 2050? Yes No*
- III.2. Has the Energy Compact considered energy-related targets and information in the updated/enhanced NDCs? Yes No*
- III.3. Has the Energy Compact considered alignment with reaching the net-zero emissions goal set by many countries by 2050? Yes No*
- IV. Leaving no one behind, strengthening inclusion, interlinkages, and synergies** - Enabling the achievement of SDGs and just transition by reflecting interlinkages with other SDGs.
- IV.1. Does the Energy Compact include socio-economic impacts of measures being considered? Yes No*
- IV.2. Does the Energy Compact identify steps towards an inclusive, just energy transition? Yes No*
- IV.3. Does the Energy Compact consider measures that address the needs of the most vulnerable groups (e.g. those impacted the most by energy transitions, lack of energy access)? Yes No*
- V. Feasibility and Robustness** - Commitments and measures are technically sound, feasible, and verifiable based a set of objectives with specific performance indicators, baselines, targets and data sources as needed.
- V.1. Is the information included in the Energy Compact based on updated quality data and sectoral assessments, with clear and transparent methodologies related to the proposed measures? Yes No*
- V.2. Has the Energy Compact considered inclusion of a set of SMART (specific, measurable, achievable, resource-based and time based) objectives? Yes No*
- V.3. Has the Energy Compact considered issues related to means of implementation to ensure feasibility of measures proposed (e.g. cost and financing strategy, technical assistant needs and partnerships, policy and regulatory gaps, data and technology)? Yes No*

SECTION 8: ENERGY COMPACT GENERAL INFORMATION

8.1. Title/name of the Energy Compact

Access to Transparent Data of the Energy Sector

8.2. Lead entity name (for joint Energy Compacts please list all parties and include, in parenthesis, its entity type, using entity type from below)

The leading entity is the Secretariat of State in the Energy Office (SEN), the organizations and entities to assist in the process of compliance with the pact are the following:

- Government: National Directorate of Energy Planning and Sector Energy Policy (DNPEPES), General Directorate of Renewable Energy and Energy Efficiency (DGEREE), General Directorate of Electricity and Markets (DGEM) and General Directorate of Hydrocarbons and Biofuels (DGHB) belonging to the SEN, Secretariat of Foreign Relations and International Cooperation (SRECI).
- Local government: Municipalities.
- Private Sector: Honduran Council of Private Enterprise (COHEP).
- Multilateral Organization / Intergovernmental Organization: Inter-American Development Bank (IDB), Latin American Energy Organization (OLADE).

8.3. Lead entity type

Government

Non-Governmental Organization (NGO)

Private Sector

Local/Regional Government

Civil Society organization/Youth

Philanthropic Organization

Multilateral body /Intergovernmental Organization

Academic Institution /Scientific Community

Other relevant actor

8.4. Contact Information

Secretaria de Energía, Dirección de Cooperación Externa, Correo : dce@sen.hn

8.5. Please select the geographical coverage of the Energy Compact

Africa Asia and Pacific Europe Latin America and Caribbean North America West Asia Global

8.6. Please select the Energy Compact thematic focus area(s)

Energy Access Energy Transition Enabling SDGs through inclusive just Energy Transitions Innovation, Technology and Data Finance and Investment.

SECTION 9: ADDITIONAL INFORMATION (IF REQUIRED)

Please provide additional website link(s) on your Energy Compact, which may contain relevant key documents, photos, short video clips etc.

The following reference website links are provided:

Page of the Secretariat of State in the Energy Office of Honduras (SEN): www.sen.hn

SieHonduras platform: <http://siehonduras.olade.org/>