

ENERGY COMPACT

 **EC9 ENABLE THE SDGS THROUGH FAIR AND INCLUSIVE ENERGY
TRANSITIONS: Promotion of Technology with Renewable Energy Sources
and Energy Efficiency Actions in Health Facilities of the Republic of
Honduras**



**United
Nations**



HIGH-LEVEL DIALOGUE ON
ENERGY
UNITED NATIONS, NEW YORK, SEPTEMBER 2021



SECTION 1: AMBITION

1.1. Ambitions to achieve SDG 7 by 2030. [Select all appropriate options]

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

<input type="checkbox"/> 7.1. By 2030, ensure universal access to affordable, reliable, and modern energy services.	<p>Target(s):</p> <p>1. Increase access to electricity to health facilities in the Republic of Honduras by using energy from renewable sources and the extension of electricity distribution networks.</p> <p>Timeframe: 2027</p> <p>Context of the ambition(s):</p> <p>According to the Report of the Index of Coverage and Access to Electricity in Honduras to the year 2019, around 300 health facilities at the primary level of care in the country, representing 25%, do not have access to sources of electricity, this causes a disadvantage considering that electricity in health facilities is essential for the conservation of medicines, vaccines, operation of medical equipment, among others.</p> <p>Electricity is associated to improve the conditions of education, health, and safety, which achieves greater efficiency in productive activities. For this reason, the Ministry of Energy (SEN), as the governing body of strategies and public policies related to electrification, has formulated a Strategic Plan for Universal Access to Electricity (PEAUE), a Universal Access to Electricity Policy for Honduras (PAUEH), Plan for Universal Access to Electricity in Educational Centers and Health facilities (PAUECEES) with the aim of providing access to service for these facilities.</p>
<input type="checkbox"/> 7.2. By 2030, substantially increase the share of renewables in the global energy mix.	<p>Target(s):</p> <p>2. Improve the conditions associated with the use and management of energy in the hospital system of the Republic of Honduras through the generation of solar thermal energy that allows the installation of modern and affordable solutions.</p> <p>Timeframe: 2030</p> <p>Context of the ambition(s):</p> <p>In accordance with the Regional Fund for Triangular Cooperation in Latin America and the Caribbean Project year 2020, the Ministry of Energy of Honduras in its commitment to contribute with specific actions from its role, has prioritized promoting solar thermal energy as a renewable and viable alternative in the country's energy system. This technology, due to the geographical location of the country, presents an enormous potential for development, which to date has not been exploited.</p> <p>On the other hand, the hospital system has been the key player in this health crisis and has also been affected. Due to this, the need to work on the energy security of the hospital system was contemplated, proposing energy saving measures such as the inclusion of solar thermal technology and other relevant ones with the aim of modernizing hospitals by reducing their energy expenditure and allowing the optimization of available resources.</p> <p>After several exchanges of information and experience bilaterally with the Ministry of Energy of Panama and several partners, it was observed the experience that Panama has developed in recent years that due to the point in which they were and the potential of the country, it was a situation very similar to that of Honduras today, so it is an absolutely accurate example of where the country is heading in this area.</p>

7.3. By 2030, double the global rate of improvement in energy efficiency.

Target(s):

3. Contribute to the post-pandemic green economic recovery of health facilities by increasing energy efficiency.

Timeframe: 2025

Context of the ambition(s):

In the last year, Honduras is going through an economic crisis caused by several events including the COVID-19 pandemic and hurricanes ETA and IOTA that have greatly affected the different productive sectors and in the same way the health sector. By virtue of the above, the momentum of a Safe Hospitals Policy has been established in the country and the adoption of mechanisms for the establishment of Smart Hospitals seeks to reduce the ecological footprint, promote public environmental health in combination with safe, sustainable, and resilient establishments.

According to the Pan American Health Organization (PAHO), a safe hospital is defined as a health facility whose services remain accessible and operating at full capacity and on its own infrastructure immediately after a natural disaster occurs. The term covers all health facilities, whatever their level of complexity.

SECTION 2: ACTIONS TO ACHIEVE AMBITION

2.1. Please Add at least one key action for each of the elaborate ambitions in Section 1. [Add rows as needed].

7.1 By 2030, ensure universal access to affordable, reliable, and modern energy services.

1. **Increase access to electricity to health facilities in Honduras using energy from renewable sources and the extension of electricity distribution networks.**

A. Development of a Minimum/low-Cost Universal Access to Electricity Plan for Health Facilities

- Strategic review of the regulatory framework, current technical and economic regulations within the scope of the Ministry of Energy (SEN), Ministry of Health (SESAL) and other institutions involved under a rigorous methodology of identification of key actors in the electrification of health facilities, establishing guidelines that reflect the role of each of the institutions for development, execution, and sustainability of the plan.
- Update of the inventory on access to electrification services in health facilities (baseline).
- Formulation of the Plan for Universal Access to Electricity of Minimum Cost for Health facilities.
- Design of electrification strategy for health facilities that can obtain access to electricity through extension of the distribution network.
- Design of electrification strategy for health facilities in which the extension of the distribution network and the potential for the installation of renewable energy systems are not feasible.
- Staff training and development of a socialization workshop on the draft Universal Access to Electricity Minimum/low-cost For Health Facilities.
- Final consolidation of the document of Universal Access to Electricity Plan of Minimum/low-cost for Health facilities.

B. Development of project of Electrification in Health facilities through photovoltaic solar systems and extension of electricity distribution networks

- Implementation of the Universal Access plan to Minimum/low- Cost Electricity for Health facilities where the baseline on electrification access services was surveyed to determine the feasibility of providing this service through the extension of existing distribution lines in the areas and with renewable energies.
- Prioritization according to the population served that will serve as the basis for the sizing of the power to be installed.
- Elaboration of the project profiles on the provision of electricity of 150 photovoltaic solar systems for the same number of health facilities and extension of medium voltage line for electrification of 67 health facilities nationwide.
- Management of financing for the execution of projects.
- Execution of projects in 217 health facilities.
- Perform an exchange of experiences in accordance with the execution of renewable energy projects in the different beneficiary health facilities and promoting linkage mechanisms between the Ministry of Health (SESAL) and the Ministry of Energy (SEN) to strengthen capacities.

C. Ensure the sustainability of installed projects

- Capacity building within the Ministry of Health (SESAL) for the activities of installation, operation, maintenance of the renewable energy projects implemented.
- Allocation of annual budget for maintenance of renewable energy projects of the Ministry of Health (SESAL).
- Application of evaluation of results of installed renewable energy projects, by the trained technical staff of the Ministry of Health (SESAL).

January 2022 – June 2022

July 2022 – December 2027

January 2027 – December 2027

7.2 By 2030, substantially increase the share of renewables in the global energy mix.

2. Improve the conditions associated with the use and management of energy in the hospital system of Honduras through the generation of solar thermal energy that allows the installation of modern and affordable solutions.

D. Development of projects in Health facilities through solar thermal systems

- Prioritization according to the population served that will serve as the basis for the sizing of the power to be installed of the low temperature solar thermal systems for water heating.
- Elaboration of project profiles on the provision of at least 12 projects for the use of low-temperature solar thermal energy for water heating in an equal number of health facilities distributed nationwide.
- Management of financing resources for the execution of projects.
- Implementation of projects in at least 12 health facilities.
- Perform an exchange of experiences in accordance with the execution of renewable energy projects in the different beneficiary health facilities and promoting linkage mechanisms between the Ministry of Health (SESAL) and the Ministry of Energy (SEN) to strengthen capacities.

January 2022 – December 2025

E. Ensure the sustainability of installed projects

- Capacity building within the Ministry of Health (SESAL) for the activities of installation, operation, maintenance of the renewable energy projects implemented.
- Allocation of annual budget for maintenance of renewable energy projects of the Ministry of Health (SESAL).
- Application of evaluation of results of installed renewable energy projects, by the trained technical staff of the Ministry of Health (SESAL).

January 2022 – December 2027

7.3 By 2030, double the global rate of improvement in energy efficiency.

3. Contribute to the post-pandemic green economic recovery of health facilities by increasing energy efficiency.

- Perform energy audits in the different health facilities to identify opportunities for improvement of current energy conditions.
- Implementation of actions and best practices derived from carrying out energy audits that contribute to improving the current conditions of health facilities.
- Elaboration by the Ministry of Health (SESAL) of a Safe Hospitals Policy that contributes to improving the resilience of health facilities, aimed at adopting sustainable technologies, reducing operating costs, increasing efficiency in operations, reducing carbon emissions, among others.
- Implementation of a Safe Hospitals Policy to be adopted in health facilities in the Republic of Honduras.
- Implementation of Green Guidelines of the World Health Organization (WHO)/Pan American Health Organization (PAHO) and Smart Hospitals within the framework of the Global Agenda to promote "Smart" health facilities.
- Socialize communication campaigns to raise awareness among the staff of the Ministry of Health (SESAL) to contribute to best practices in efficiency and energy saving.

January 2022 – June 2025

SECTION 3: OUTCOME

3.1. *Please add at least one measurable, time-based result for each of the actions in section2. [Add rows as needed].*

Outcome 1.1 Document of Guidelines of the Strategic Institutional Framework to support the implementation of the Plan for Universal Access to Electricity for Health facilities.	February 2022
Outcome 1.2 Revised and updated database on access to electrification services in health facilities.	February 2022
Outcome 1.3 Preliminary socialized draft of the Universal Access to Electricity Plan for Health Facilities.	April 2022
Outcome 1.4 Consolidated the Plan for Universal Access to Electricity of Minimum/low-Cost for Health facilities.	June 2022
Outcome 1.5 Operation of 150 photovoltaic solar systems installed in an equal number of health facilities.	July 2025
Outcome 1.6 Reduction of energy consumption and avoided emissions of tons of CO ₂ -eq.	July 2025
Outcome 1.7 Extension of medium voltage line to electrify 67 health facilities.	July 2027
Outcome 1.8 Performance evaluation of photovoltaic solar renewable energy projects implemented in health facilities.	December 2027
Outcome 2.1 Operation of 12 low-temperature solar thermal energy systems for water heating, installed in an equal number of health facilities.	August 2025
Outcome 2.2 Reduction of energy consumption and avoided emissions of tons of CO ₂ -eq.	August 2025
Outcome 2.3 Performance evaluation of solar thermal renewable energy projects implemented in health facilities.	December 2025
Outcome 2.4 Systematized the experience on the implementation of renewable energy projects in health facilities that can be shared at the national and / or regional level.	December 2025
Outcome 3.1 Energy audit document carried out in the main health facilities in the country.	December 2022
Outcome 3.2 Document of recommendations for the implementation of energy efficiency actions derived from the application of energy audits to the main health facilities in the country.	December 2022
Outcome 3.3 Strengthened the technical capacities of the staff of the Ministry of Health (SESAL) responsible for Renewable Energy Systems for monitoring and sustainability of the projects in operation.	December 2025
Outcome 3.4 Developed and implemented the Safe Hospitals Policy in the country's health facilities.	December 2024
Outcome 3.5 Adopted best energy practices in the operation of health facilities in the country, through the application of the guidelines on the Green Guidelines of the World Health Organization (WHO) / Pan American Health Organization (PAHO) and the conversion to Smart Hospitals.	August 2025
Outcome 3.6 Staff of the Ministry of Health (SESAL) trained and sensitized on the application of best practices in efficiency and energy saving.	December 2025

SECTION 4: SUPPORT AND RESOURCES REQUIRED

4.1 Specify the financing and investments required for each of the actions in section 2.

The estimates of the necessary investments for the fulfillment of the actions were based on the NDC-Energy Efficiency and Project Sheets of the Reconstruction and Sustainable Development Plan (PRDS) prepared by the Ministry of Energy (SEN) of Honduras:

Activity	Inputs	Value (USD)
Development of the Universal Access to Electricity Plan of Minimum/low- Cost for Health facilities.	<ul style="list-style-type: none"> Consulting team Professional Fees Socialization Workshop of the Access Plan Access Plan Launch Workshop 	USD \$ 25,000.00
Development of a project for the adoption of photovoltaic solar energy systems in 150 health facilities and extension of a medium voltage line for the electrification of 67 health facilities.	<ul style="list-style-type: none"> Photovoltaic Solar Renewable Energy Equipment Staff mobilization costs Training workshops Fees of the staff executing the project Furniture and project equipment 	USD \$ 6,824,081.00
Training Workshops for the staff of the Ministry of Health (SESAL) responsible for monitoring the implementation of renewable energy systems.	<ul style="list-style-type: none"> Facilitators' Fee Food and Beverages Event Organization Workshop materials 	USD \$ 15,000.00
Budget allocation for maintenance activities of installed renewable energy systems.	<ul style="list-style-type: none"> Materials Equipment Staff mobilization costs 	USD \$ 1,500,000.00
Project development for the adoption of low-temperature solar thermal energy systems for water heating in at least 12 health facilities.	<ul style="list-style-type: none"> Photovoltaic Solar Renewable Energy Equipment Staff mobilization costs Training workshops Fees of the staff executing the project Furniture and project equipment 	USD \$3,000,000.00
Evaluation of the performance of renewable energy projects implemented in health facilities.	<ul style="list-style-type: none"> Materials and equipment Staff mobilization costs 	USD \$100,000.00
Implementation of energy audits in the main health facilities in the country on current conditions.	<ul style="list-style-type: none"> Equipment and materials Staff mobilization costs Fees of the staff executing the activities 	USD \$ 100,000.00
Implementation of actions and correction of improvement points derived from energy audits.	<ul style="list-style-type: none"> Improvement budget Fees of the staff executing the activities 	USD \$2,500,000.00
Development of a Safe Hospitals Policy.	<ul style="list-style-type: none"> Technical assistance from a consultant. Training/socialization workshops 	USD \$ 30,000.00
Implementation of the Safe Hospitals Policy and other	<ul style="list-style-type: none"> Equipment and materials 	USD \$500,000.00

technical tools to promote Smart Hospitals.	• Training/socialization workshops	
TOTAL		USD \$ 14,594,081.00

4.2 [Country only] If assistance is required for section 2 actions, select below, describe the assistance required, and specify for which action.

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

<input type="checkbox"/> Financing	
<input type="checkbox"/> Payment-in-Kind (PIK)	<i>Technical capacities of the Secretariat of State in the Office of Energy (SEN), Ministry of Health (SESAL), Municipalities.</i>
<input type="checkbox"/> Technical Assistance	<i>Consultancies for policies, plans</i>
<input type="checkbox"/> Other/please specify	<i>Non-reimbursable cooperation for the execution of activities is established a budget of USD \$ 14,594,081.00 (Fourteen million five hundred and ninety-four thousand eighty-one dollars).</i>

SECTION 5: IMPACT

5.1 Countries planned for implementation, including the number of people potentially affected.

Republic of Honduras and through the implementation of projects to access electricity to health facilities in the country through renewable solar photovoltaic and thermal technologies will benefit a population of 405,000 people and the generation of direct and indirect employment will be 13,100 people.

5.2 Alignment with the 2030 Agenda for Sustainable Development - Describe how each of the actions in section 2 impacts the advancement of the SDGs by 2030.

Energy strengthens the coverage of health centers at the national level and aligns with SDG3. Likewise, energy of better quality and accessible to all the Honduran people facilitates the use of modern and efficient equipment that allows better and more successful treatments to be conducted to the general population. In addition, it offers the possibility of providing medicines that, without energy, cannot be provided safely. It is associated with the use of cleaner energy sources and better conditions.

5.3 Alignment with the Paris Agreement and net zero emissions by 2050 – Describe how each of the actions in section 2 aligns with the Paris Agreement and national NDCs (if applicable) and supports net-zero emissions by 2050. [up to 500 words, upload the necessary strategy supporting documents].

Aligned with Objectives 3 and 5 of Renewable Energy and Energy Efficiency of the NDC-Honduras and through Axis 1 of Energy Transition and Axis 2 of Culture of Efficiency and Energy Saving of the Country's Sectoral Energy Policy, access to electricity and adoption of systems through renewable technologies to health facilities is promoted, to offer better services to the Honduran population, contributes to the diversification of the national energy matrix, reducing GHG emissions, carbon footprint, and sensitizes the population on the implementation of good practices of energy saving and efficiency. The hospital network, the human resource are strengthened and mechanisms are created for the transition to "Smart Hospitals" that favor conditions of care in safe, sustainable and resilient facilities for users.

SECTION 6: MONITORING AND REPORTING

6.1. Describe how you plan to track the progress of the results proposed in section 3. Also describe whether you plan to use other existing reporting frameworks to track progress on proposed outcomes

Monitoring 1.1 – 1.4: Final report on the Minimum/Low-Cost Universal Access to Electricity Plan for Health Facilities.

Monitoring 1.5, 1.7 y 1.8: Monthly progress report on the execution of a renewable energy project through a photovoltaic solar system.

Monitoring 1.6: Impact assessment report of implementation of renewable energy project through photovoltaic solar system.

Monitoring 2.1: Monthly progress report on the execution of a renewable energy project through a solar thermal system.

Monitoring 2.2 y 2.3: Impact assessment report of implementation of renewable energy project through solar thermal system.

Monitoring 2.4: Workshop on socialization and communication of the results and experiences on the implementation of renewable energy systems in health facilities.

Monitoring 3.1: Report of results of application of energy audits carried out to the main health facilities of the country.

Monitoring 3.2: Report on the execution of corrective actions implemented on energy efficiency in the main health facilities in the country.

Monitoring 3.3: Certification of the technical staff of the Ministry of Health (SESAL) responsible for renewable energy systems.

Monitoring 3.4 y 3.5: Annual report on the implementation of the Safe Hospitals Policy in the country's health facilities.

Monitoring 3.6: Annual monitoring report on the practices implemented in health facilities on energy saving and efficiency.

SECTION 7: GUIDING PRINCIPLES CHECK LIST

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

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? X Yes No

I.2 Does the Energy Compact increase the geographical and/or sectoral coverage of SDG7 related efforts? X 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? X 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? X 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? X Yes No

II.3 Has the Energy Compact considered a timeframe in line with the Decade of Action? X 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? X Yes No

III.2 Has the Energy Compact considered energy-related targets and information in the updated/enhanced NDCs? X Yes No

III.3 Has the Energy Compact considered alignment with reaching the net-zero emissions goal set by many countries by 2050? X 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? X Yes No

IV.2 Does the Energy Compact identify steps towards an inclusive, just energy transition? X 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)? X 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? X Yes No

V.2 Has the Energy Compact considered inclusion of a set of SMART (specific, measurable, achievable, resource-based and time based) objectives? X 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)? X Yes No

SECTION 8: ENERGY COMPACT INFORMATION

8.1. Title/name of the Energy Compact:

Promotion of Technology with Renewable Energy Sources and Energy Efficiency Actions in Health Facilities in the Republic of Honduras

8.2. Name of the principal entity (for joint energy pacts, list all parties and include, in parentheses, their entity type, using the entity type below)

As a leading entity is the Secretariat of State in the Office of Energy (SEN), the organizations and entities for the accompaniment in the process of compliance with the pact are the following:

- *Government: Secretariat of State in the Office of Natural Resources and Environment (MI AMBIENTE), Ministry of Health (SESAL), National Directorate of Strategic Planning and Sectoral Policy (DNPEPES), Ministry of Foreign Affairs and International Cooperation (SRECI).*
- *Local government: Municipalities*
- *Multilateral Organization / Intergovernmental Organization: Central American Bank for Economic Integration (CABEI), World Bank, Pan American Health Organization / World Health Organization (PAHO/WHO).*

8.3 Leading entity type

- | | | |
|--|---|---|
| <input checked="" type="checkbox"/> Government | <input type="checkbox"/> Local/Regional Government | <input type="checkbox"/> Multilateral Agency/Intergovernmental Organization |
| <input type="checkbox"/> Non-Governmental Organizations (NGOs) | <input type="checkbox"/> Civil Society Organization/Youth | <input type="checkbox"/> Academic Institution/Scientific Community |
| <input type="checkbox"/> Private Sector | <input type="checkbox"/> Philanthropic Organization | <input type="checkbox"/> Other relevant actor |

8.4. Contact Information: Secretariat of State in the Office of Energy (SEN) and Secretariat of Health (SESAL), Directorate of External Cooperation, email: dce@sen.hn

8.5. Select the geographical coverage of the Energy Pact

- Africa Asia and the Pacific Europe Latin America and the 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 Energy Transitions Innovation, technology and data Finance and investments.