



ESTADO PLURINACIONAL DE
BOLIVIA

MINISTERIO DE
HIDROCARBUROS Y ENERGÍAS

SDG7 Energy Compact of Ministry of Hydrocarbons and Energies

A next Decade Action Agenda to advance SDG7 on sustainable energy for all, in line with the goals of the Paris Agreement on Climate Change

SECTION 1: AMBITION

1.1. Ambitions to achieve SDG7 by 2030. [Please select all that apply, and make sure to state the baseline of each target]

(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)

<input checked="" type="checkbox"/> 7.1. By 2030, ensure universal access to affordable, reliable and modern energy services.	<p>Target(s): 100% of Bolivians have basic electricity service Time frame: 2021 - 2030 Context for the ambition(s): Execution of projects for universal access to electric energy coverage within the framework of the horizontal expansion programs provided for in the investment plans of the country's distribution companies.</p> <p>Implement photovoltaic systems with lithium batteries in rural communities where the main electrical energy network does not reach to guarantee universal access to basic services such as electricity.</p>
<input checked="" type="checkbox"/> 7.2. By 2030, increase substantially the share of renewable energy in the global energy mix.	<p>Target(s): 2,07 GW, Total installed capacity of RE projected to 2030 Time frame: 2019 - 2030 Context for the ambition(s): 39.29% increase in the share of renewable energy (hydraulic, wind, solar and biomass) in the demand for electricity. It has sought to change the energy matrix and reduce the consumption of fossil sources through the incorporation of generation through renewable sources.</p>
<input checked="" type="checkbox"/> 7.3. By 2030, double the global rate of improvement in energy efficiency.	<p>Target(s): Promote the efficient use of electricity Time frame: 2021 - 2030 Context for the ambition(s): Sustainable and efficient use of energy resources in the framework of the energy transition</p>
<input type="checkbox"/> 7.a. By 2030, enhance international cooperation to facilitate access to clean energy research and technology, including renewable energy, energy efficiency and advanced and cleaner fossil-fuel technology, and promote investment in energy infrastructure and clean energy technology.	<p>Target(s): Time frame: Context for the ambition(s):</p>
<input type="checkbox"/> 7.b. By 2030, expand infrastructure and upgrade technology for supplying modern and sustainable energy services for all in developing countries, in particular least developed countries, small island developing States, and land-locked developing countries, in accordance with their respective programs of support.	<p>Target(s): Time frame: Context for the ambition(s):</p>

1.2. Other ambitions in support of SDG7 by 2030 and net-zero emissions by 2050. [Please describe below e.g., coal phase out or reforming fossil fuel subsidies etc.]

Target (s): Development of green hydrogen as a fuel and energy vector for the transition towards the use and implementation of clean energy
 Time frame: By 2025 the production of green hydrogen has started
 By 2030, the use of green hydrogen in the domestic market has become widespread
 Context for the ambition(s): For the production of green hydrogen, there are mainly renewable, solar and wind resources, and there is an available capacity to generate electricity with renewable resources. Likewise, there are natural gas liquefaction plants that can be adapted for green hydrogen liquefaction. On the other hand, there is a wide network of gas pipelines and an oil pipeline to border countries that can be adapted for export.

Target (s): Lithium batteries for electromobility
 Time frame: to 2030
 Context for the ambition (s): Manufacture lithium batteries for electromobility applications, in order to gradually reduce the use of fossil fuels.

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].

<i>Description of action (please specify for which ambition from Section 1)</i>	<i>Start and end date</i>
7.1. By 2030, ensure universal access to affordable, reliable and modern energy services. Extend and densify electric power networks in urban and rural areas	2021-2030
7.1. By 2030, ensure universal access to affordable, reliable and modern energy services. Apply alternative energies in dispersed rural areas, facilitating access to solar panels in more remote communities.	2022-2030
7.1. By 2030, ensure universal access to affordable, reliable and modern energy services. Manufacture of lithium batteries for energy storage	2017-2030
7.2. By 2030, increase substantially the share of renewable energy in the global energy mix. Build and operate hydroelectric plants and implement generation plants using alternative and renewable energies: wind, biomass, geothermal and solar.	2021-2030
7.3. By 2030, double the global rate of improvement in energy efficiency. Implementation of energy efficiency programs and projects in different areas (production, consumption and public lighting).	2017-2030
1.2. Other ambitions in support of SDG7 by 2030 and net-zero emissions by 2050 Creation and implementation of the Green Hydrogen Development Program	2022-2030
1.2. Other ambitions in support of SDG7 by 2030 and net-zero emissions by 2050 Manufacture of lithium batteries for electromobility	2019-2030

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].*

<i>Outcome:</i> Extend and densify electric power networks in urban and rural areas	<i>Date</i>
2,977.20 km of transmission lines built within the National Interconnected System	2025
<i>Outcome:</i> Apply alternative energies in dispersed rural areas, facilitating access to solar panels in more remote communities	<i>Date</i>
100% electric power coverage has been achieved in urban and rural areas with the implementation of RE	2030
<i>Outcome:</i> Manufacture of lithium batteries for energy storage	<i>Date</i>
Use of Bolivian lithium batteries in photovoltaic systems distributed in rural areas	2030
<i>Outcome:</i> Build and operate hydroelectric plants and implement generation plants using alternative and renewable energies: wind, biomass, geothermal and solar.	<i>Date</i>
Build and operate hydroelectric plants to generate 1,447 MW and implement generation plants using alternative and renewable energies: wind, biomass, geothermal and solar, to generate 2,070 MW.	2030
<i>Outcome:</i> Implementation of energy efficiency programs and projects in different areas (production, consumption and public lighting)	<i>Date</i>
3 Programs of energy efficiency in public lighting executed and concluded.	2030
<i>Outcome:</i> Creation and implementation of the Green Hydrogen Development Program	<i>Date</i>
A roadmap has been defined for the Green Hydrogen Development Program and there is a prioritized project portfolio. Green hydrogen production has started at the pilot plant.	2030
<i>Outcome:</i> Manufacture of lithium batteries for electromobility	<i>Date</i>
Use of Bolivian lithium batteries for conversion from combustion to electric vehicles	2030

SECTION 4: REQUIRED RESOURCES AND SUPPORT

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

<i>Extend and densify electric power networks in urban and rural areas:</i> Construction of transmission lines: USD 463.228,44 (Estimated investment only until 2025)
<i>Apply alternative energies in dispersed rural areas, facilitating access to solar panels in more remote communities:</i> Increase coverage to 100%: USD 328.018.118 (Estimated investment for projects in rural areas. In the urban area the investment is in charge of the Distributors)
<i>Manufacture of lithium batteries for energy storage:</i> No estimate
<i>Build and operate hydroelectric plants and implement generation plants using alternative and renewable energies: wind, biomass, geothermal and solar:</i> Projects to accelerate the energy transition: USD 3.445.616.379 (It is the total investment considering projects that are currently under execution)
<i>Implementation of energy efficiency programs and projects in different areas (production, consumption and public lighting):</i> USD 1.734.051 (Regulations, standards and execution of pilot projects)

Creation and implementation of the Green Hydrogen Development Program:

No estimate

Manufacture of lithium batteries for electromobility:

No estimate

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 checked="" type="checkbox"/> Financing	<i>Description</i> Access to green funds and soft loans. We lend with sustainable interests over time
<input checked="" type="checkbox"/> In-Kind contribution	<i>Description</i> Loans with donation components
<input checked="" type="checkbox"/> Technical Support	<i>Description</i> Technical training, transfer of new technologies Technology for the implementation of Agrivoltaics for the production of green hydrogen.
<input type="checkbox"/> Other/Please specify	<i>Description</i>

SECTION 5: IMPACT

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

In Bolivia, just by reaching the goal of 100% coverage, more than 120.430 families that do not have basic electricity service would benefit.

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]

Rural electrification will allow universal access to electricity in urban and rural areas of the country in compliance with SDG 7.
The endowment of pico photovoltaic systems provide an alternative access to electricity service to families living far from electricity grids in compliance with SDG 7 and 10.
The production of lithium batteries for energy accumulators will guarantee uninterrupted access to electricity service in rural areas in compliance with SDG 7 and 9.
Renewable energies will allow the sustainable development of the country, in accordance with SDG 7, 11 and 13.
Energy efficiency will allow new opportunities for sustainable development for the country, in accordance with SDG 11.
With the production of green hydrogen, it will be possible to reduce the use of energy from fossil resources, in accordance with SDG 7, 12 and 13.
The manufacture of lithium batteries for electric cars will contribute to the reduction of the use of fossil fuels and the emission of CO₂, in accordance with SDG 7 and 13.

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]

Rural electrification through pico photovoltaic solar systems and mini hydroelectric plants, renewable energies and energy efficiency contribute to the reduction of greenhouse effect emissions due to the displacement of fossil fuels.

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.

All rural electrification, renewable energy and energy efficiency projects will be supported by technical monitoring and financial execution reports.

SECTION 7: GUIDING PRINCIPLES CHECKLIST

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 defined 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

SDG7 Energy Compact of Ministry of Hydrocarbons and Energies

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)

Ministry of Hydrocarbons and Energies

8.3. Lead entity type

Government

Local/Regional Government

Multilateral body /Intergovernmental Organization

Non-Governmental Organization (NGO)

Civil Society organization/Youth

Academic Institution /Scientific Community

Private Sector

Philanthropic Organization

Other relevant actor

8.4. Contact Information

"Jose Maria Romay Bortolini" <jromay@hidrocarburos.gob.bo>

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.