



SDG7 Energy Compact of NTPC

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 type="checkbox"/> 7.1. By 2030, ensure universal access to affordable, reliable and modern energy services.	Target(s): Time frame: Context for the ambition(s):
<input type="checkbox"/> 7.2. By 2030, increase substantially the share of renewable energy in the global energy mix.	Target(s): <i>Aims to achieve 60 GW of cumulative capacity of renewables</i> Time frame: <i>2032</i> Context for the ambition(s): <i>NTPC is majorly a power generating utility. As part of low carbon intensive energy transition plan, we are increasing the share of renewables in our portfolio.</i>
<input type="checkbox"/> 7.3. By 2030, double the global rate of improvement in energy efficiency.	Target(s): <i>To reduce group net energy intensity by 10 % vs. 2012 levels</i> Time frame: <i>2032</i> Context for the ambition(s): <i>The energy transition to a low carbon energy system will require both a shift to renewable energy and a major increase in energy efficiency.</i>
<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.	Target(s): <i>To Join atleast 2 international Alliances and groups to facilitate clean energy research and promote sustainability in energy value chain</i> Time frame: <i>2025</i> Context for the ambition(s): <i>To achieve the common goal of limiting the global temperature rise below 1.5 degree in a just manner, it is critical to have collaborations for R&D, technology transfer, sharing of best and sustainable practices in the entire global energy value chain.</i>
<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.	Target(s): Time frame: Context for the ambition(s):

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):
Time frame:
Context for the ambition(s):

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].

<p><i>Description of action (please specify for which ambition from Section 1) (7.2. By 2030, increase substantially the share of renewable energy in the global energy mix.)</i></p> <ul style="list-style-type: none"> · NTPC will intensify its efforts in increasing its renewable portfolio by participating in all Tariff based bidding, CPSU scheme and UMREPP park and project development schemes · NTPC will also explore opportunities of acquisition of Renewables assets · NTPC will facilitate development of solar projects across globe either as an intermediary or Project consultant 	<p><i>Start: 2021 End Date: 2032</i></p>
<p><i>Description of action (please specify for which ambition from Section 1) (7.3. By2030, double the global rate of improvement in energy efficiency.)</i></p> <ul style="list-style-type: none"> · NTPC will implement latest technologies and process improvements to save energy all across its business units · NTPC will continually strive towards upgradation of existing generation fleet with the most efficient and less energy intensive systems 	<p><i>Start: 2021 End Date: 2032</i></p>
<p><i>Description of action (please specify for which ambition from Section 1) (7.a. By 2030, enhance international cooperation)</i></p> <ul style="list-style-type: none"> · NTPC will increase its geo-strategic reach and explore collaborations with global players and expert in field of clean energy technology and finance · NTPC will increase interactions with global and domestic energy players through alliances for promotion of sustainability in the entire energy value chain. 	<p><i>Start: 2021 End Date: 2025</i></p>
<p><i>Description of action (please specify for which ambition from Section 1)</i></p>	<p><i>Start: End Date:</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].*

<i>Outcome</i>	<i>Date</i>
7.2 Renewables Mix · 5300 MW of UMREPP by 2025 7.3 Energy Efficiency · 38% share of Super-critical and ultra-super technologies out of total coal capacity by 2022 7.a International Cooperation · Joining 1 International Alliance by 2022	2021

SECTION 4: REQUIRED RESOURCES AND SUPPORT

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

- 7.2. Renewables Mix**
- Investment and policy support for increase of domestic manufacturing capacity of solar and wind equipments to support renewables targets of India and NTPC
 - Subsidy for off-shore wind projects to make it viable
- 7.3. Energy Efficiency**
- Investment and beneficiaries support for upgradation of existing technologies
- 7.a. International Cooperation**
- Availability of clean funds/ green finance for technology collaborations and transfers

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>Description</i>
<input type="checkbox"/> In-Kind contribution	<i>Description</i>
<input type="checkbox"/> Technical Support	<i>Description</i>
<input type="checkbox"/> Other/Please specify	<i>Description</i>

SECTION 5: IMPACT

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

Majorly for India

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]

NTPC's ambition for energy compacts will strengthen efforts for achieving various SDGs goals especially 7, 8, 9, 10, 11, 12, 13 and 17. Our efforts to increase renewables will provide clean energy to masses along with meeting climate goals. For an energy transition which is just and fair, it is important that speed of transition is gradual to balance both social and environmental impacts. As India is still a developing country, upgradation of existing less efficient thermal technologies into more efficient technologies will ensure affordability of electricity, lesser environmental footprint and positive social impact (in terms of employment etc.). Our efforts towards increasing global cooperation in the field of clean energy value chain and sustainability will ensure multiple benefits such as providing decent work opportunities, reduced inequalities, resource efficiency and accelerated innovations.

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]

As per India's Paris Agreement and nationalNDCs, NTPC has aligned its renewable capacity addition targets. As mentioned, we will achieve 60 GW of cum. Renewable capacity by 2032. Also, NTPC's energy efficiency improvement programs will reduce our emission intensity i.e. CO₂ emitted per unit of electricity generated. This is also in alignment to India's target of reduction of emission intensity of its GDP.

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.

NTPC publishes its Sustainability Report/ Integrated Annual Report each year, wherein all the relevant sustainability indicators as per GRI standard and IIRC framework is disclosed. We will continue to communicate our progress for Energy Compact ambitions through these forums or from Sustainability page of NTPC website.

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

1.1. 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

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

1.3. 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

NTPC Energy Ambition

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)

NTPC LTD.

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

[NTPC LTD., NTPC Bhawan, SCOPE Complex, Institutional Area, Lodhi Road, New Delhi – 110003 Email: \[Sustainability@ntpc.co.in\]\(mailto:Sustainability@ntpc.co.in\)](#)

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.

<https://www.ntpc.co.in/sites/default/files/downloads/TBP-Base-Year-Data.pdf>