



SDG7 Energy Compact of J.K. Cement Ltd.

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.	<p>Target(s): 75% green power which includes 37% RE power (Wind, solar, etc) & 38% from Waste heat recovery system from baseline year of FY2020. Time frame: By 2030 Context for the ambition(s): Power Mix</p> <table border="1" data-bbox="813 821 1947 972"> <thead> <tr> <th>S. No.</th> <th>Type of Power</th> <th>Base Year FY2019-20 (%)</th> <th>Target Year FY2029-30 (%)</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>RE Power</td> <td>4</td> <td>37</td> </tr> <tr> <td>2.</td> <td>Fossil based CPP Power</td> <td>81</td> <td>25</td> </tr> <tr> <td>3.</td> <td>WHRS Power</td> <td>15</td> <td>38</td> </tr> </tbody> </table> <p>Increase of green power mix by installation of WHRS and installation & purchase of RE power.</p>	S. No.	Type of Power	Base Year FY2019-20 (%)	Target Year FY2029-30 (%)	1.	RE Power	4	37	2.	Fossil based CPP Power	81	25	3.	WHRS Power	15	38
S. No.	Type of Power	Base Year FY2019-20 (%)	Target Year FY2029-30 (%)														
1.	RE Power	4	37														
2.	Fossil based CPP Power	81	25														
3.	WHRS Power	15	38														
<input type="checkbox"/> 7.2. By 2030, increase substantially the share of renewable energy in the global energy mix.	<p>Target(s): To achieve the SBTi target for 2D scenario our energy mix will be 25% from fossil fuel & 75% from green sources Time frame: By 2030 Context for the ambition(s):</p> <ul style="list-style-type: none"> RE/solar capacity of 5 MWh will be installed at Nimbahera, Rajasthan, India in FY 2021-23. RE/solar capacity 5.6 MWh will be installed at Mangrol, Rajasthan, India in FY 2021-23. In FY 2021-23, 15 MW Waste heat recovery system will be installed at J.K. Cement Works, Muddapur, Karnataka. In FY 2022-23, 22 MW Waste heat recovery system will be installed with upcoming unit at Panna, Madhya Pradesh, India. From 2022-23 to 2029-30, RE power purchase/captive installation in energy mix will be increased by approx. 5% annually to meet the 75% target by 2030. 																
<input type="checkbox"/> 7.3. By 2030, double the global rate of improvement in energy efficiency.	<p>Target(s): To reduce 10% specific power consumption, 5% reduction in thermal energy and reduce the clinker factor below 65% in cement. Time frame: By 2030 Context for the ambition(s):</p> <ul style="list-style-type: none"> At the global level, energy efficiency is at lower side and further various measures will be implemented to reduce the thermal energy and electrical energy under the SDG roadmap to meet the SBTi commitment by 2030. Reduction of clinker factor in cement by use of blending materials to reduce specific power for cement manufacturing. 																
<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): Cleaner fuel targets are given below. Time frame: By 2030 Context for the ambition(s):</p> <table border="1" data-bbox="813 1791 1947 1976"> <thead> <tr> <th>S. No.</th> <th>Fuel Mix</th> <th>FY 2019-20 (%)</th> <th>FY 2029-30 (%)</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Fossil fuel</td> <td>94</td> <td>65</td> </tr> <tr> <td>2.</td> <td>Biomass Fuel – Cleaner Fuel</td> <td>0.6</td> <td>10.5</td> </tr> <tr> <td>3.</td> <td>Alternative fossil & mixed fuel – Cleaner Fuel</td> <td>5.4</td> <td>24.5</td> </tr> </tbody> </table>	S. No.	Fuel Mix	FY 2019-20 (%)	FY 2029-30 (%)	1.	Fossil fuel	94	65	2.	Biomass Fuel – Cleaner Fuel	0.6	10.5	3.	Alternative fossil & mixed fuel – Cleaner Fuel	5.4	24.5
S. No.	Fuel Mix	FY 2019-20 (%)	FY 2029-30 (%)														
1.	Fossil fuel	94	65														
2.	Biomass Fuel – Cleaner Fuel	0.6	10.5														
3.	Alternative fossil & mixed fuel – Cleaner Fuel	5.4	24.5														

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):

- Already mentioned from point no. 7.1 to 7.a.

Time frame: By 2030

Context for the ambition(s):

As mentioned in Section 4 "Required Resource and Support"

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)</i> As described in section 7.1 to increase green power share. Increase of green power mix will be achieved by installation of WHRS, installation of RE power and purchase of RE power. Details given as below.</p> <ul style="list-style-type: none"> • At present, the waste heat recovery power consumption is 21%, captive RE consumption is 0.17% & purchase RE is 3.56%. • Present installed capacity of Waste heat recovery system is 42.3 MWh. Additional WHRS capacity of 16 MWh at Muddapur plant in Karnataka will be installed in FY 2021-23. • Present RE installed capacity is 1.45 MWh. Additional RE of capacity 18 MWh will be installed in FY 2021-22. <p>Rest will be either purchase or will be installed subject to economic viability and land availability.</p>	<p><i>Start and end date</i> 2021-23</p>
<p><i>Description of action (please specify for which ambition from Section 1)</i> As described in section 7.2 energy mix.</p> <ul style="list-style-type: none"> • RE/solar of capacity 5 MWh will be installed at Nimbahera, Rajasthan, India in FY 2021-22. • RE/solar of capacity 13MWh will be installed at Mangrol, Rajasthan, India in FY 2021-22. • In FY 2021-23, 16MW Waste heat recovery system will be installed at J.K. Cement Works, Muddapur, Karnataka. • In FY 2022-23, 22 MW waste heat recovery system will be installed with upcoming unit at Panna, Madhya Pradesh, India. • From 2022-23 to 2029-30, RE power purchase/captive installation in energy mix will be increased by approx. 5% annually to meet the 75% target by 2030. 	<p><i>Start and end date</i> 2022-23 to 2029-30</p>
<p><i>Description of action (please specify for which ambition from Section 1)</i> As described in section 7.3 to reduce specific cement power consumption.</p> <ul style="list-style-type: none"> • Measures will be implemented to reduce the thermal energy by 5% and electrical energy by 10% under the SDG roadmap to meet the SBTi commitment by 2030. • Reduction of the clinker factor in cement by use of blending materials. • Implementation of better grinding technologies, high efficiency motors, pumps & various operations of the manufacturing process for reduction of electrical energy and thermal energy. • Increase the capabilities of AFR consumption. 	<p><i>Start and end date</i> 2019-20 to 2029-30</p>
<p><i>Description of action (please specify for which ambition from Section 1)</i></p>	<p><i>Start and end date</i></p>

As mentioned in Section 4 "Required Resource and Support"

2022-23 to 2029-30

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

- After implementation of all the renewable and clean energy sources, the organization will reduce its carbon footprint as committed under SBTi. The organization will reduce its Scope 1 and Scope 2 GHG intensity emission from 680 to 530 kg CO2/t cement.

Date

2019-20 to 2029-30

SECTION 4: REQUIRED RESOURCES AND SUPPORT

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

- Reduction in the capex cost.
- RE and clean technologies should be exempted from all the taxes on imported parts.
- Removal of all multiple taxes for power willing, duties and other statutory charges.
- Allotment of the government land at lower cost for RE.
- Technological support and green finance for clean energy sources, RE plants and CCUS.
- Required the ease on policies for PPA or group captive model for Green Energy”
- Govt. subsidy or incentive should be awarded to promote the Green Energy

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.

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]

- It will help to meet the SBTi target to reduce carbon emission by 21.6% by 2030 from 2020 level.
- With proposed 75% clean energy in energy mix target, we will gradually reduce to 0% purchase of fossil fuel based power from 2028.
- We have targeted not to install fossil fuel based CPP.

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]

Our commitment for the SBTi made on 24th March 2021 for the reduction of the GHG emissions is aligned with Paris Agreement for 2D scenario which we will achieve by the following measures.

- Clean energy mix of 75%
- Reduction of the clinker content in the cement to produce 80% blended cement with the lowest clinker content by increasing the blending materials.
- Improving the energy efficiency for reduction of thermal energy and electrical energy
- Replacement of the fossil fuel by alternative fuel and the clean fuel.

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.

- Audited Sustainability and IR report are published annually.

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 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

JKCL 2030 SDG Ambitions Through Clean Energy Transitions

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)

J.K. Cement Ltd., Kanpur, Uttar Pradesh-208001

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

Mr. Anil Kumar Jain
Corporate Head (Environment & Sustainability)
Mob. No.- +91-9530407218
Mail Id- anil.jain@jkcement.com

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.