



**SDG7 Energy Compact of Kube Energy**

**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"/> <b>7.1.</b> By 2030, ensure universal access to affordable, reliable and modern energy services.	<p>Target(s): Improve access to affordable, reliable and sustainable energy services in fragile regions, including 6 priority areas (Somalia, DRC, northern Kenya, Central African Republic, Mali and South Sudan), by providing around 150 GWh of energy per year.</p> <p>Time frame: From now to December 2029</p> <p>Context for the ambition(s): Kube Energy aims to generate 150 GWh of electricity per year from 50 future renewable based power plants in fragile areas with a high concentration of international organizations. Each power plant will have 1-5MWp of solar capacity and the total installed capacity is estimated to 120MWp. These new infrastructures will supply electricity to international organizations operating in the area, government services, businesses and, through a local utility company, to communities. Services will be reliable and provided at a cheaper electricity tariff, if this service already exist (around 20-30% cheaper than local tariff), to improve access to energy.</p>
<input checked="" type="checkbox"/> <b>7.2.</b> By 2030, increase substantially the share of renewable energy in the global energy mix.	<p>Target(s): Commit to ensure that 75% of the energy generated by our projects in fragile countries will come from solar power as to substantially increase the share of renewable energy in the global energy mix.</p> <p>Time frame: From now to December 2029</p> <p>Context for the ambition(s): Kube Energy aims to develop 150 MWh per year of energy from 50 future renewable based power plants in fragile areas. These new infrastructures will replace existing diesel generators or charcoal usage. Their design will include solar PV and batteries to enable 75% of renewable penetration, cutting considerably on CO2 emissions.</p>
<input type="checkbox"/> <b>7.3.</b> By 2030, double the global rate of improvement in energy efficiency.	<p>Target(s):</p> <p>Time frame:</p> <p>Context for the ambition(s):</p>
<input type="checkbox"/> <b>7.a.</b> 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):</p> <p>Time frame:</p> <p>Context for the ambition(s):</p>
<input checked="" type="checkbox"/> <b>7.b.</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	<p>Target(s): Develop 50 new energy infrastructure in fragile regions, including 6 priority areas (Somalia, DRC, Kenya, Central African Republic, Mali and South Sudan), in support of national efforts and in accordance with their respective programs of support.</p> <p>Time frame: From now to December 2029</p> <p>Context for the ambition(s): Kube Energy aims to develop 150 GWh of energy from 50 future renewable energy based plants in fragile areas, including 6 priority areas (Somalia, DRC, northern Kenya, Central African Republic, Mali and South Sudan), where there is a high concentration of international organizations. Kube Energy has already active operations northern Kenya, South Sudan and Somalia and plans to expand to DRC, Mali</p>

developing countries, in accordance with their respective programs of support.

and CAR. All these new infrastructures will be developed in partnership with the local governments and in cooperation with international organizations operating in the area. Infrastructures will be mainly financed by private investors. Ownership of energy infrastructures will be transferred to local authorities after 15 years of operations to enhance local capacity.

**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> Ambition 7.1:</p> <ul style="list-style-type: none"> <li>- Identify locations for projects development in remote and fragile areas where impact on energy access and decarbonization will be high.</li> <li>- Work with local authorities to define project structure and maximize benefits, including for off-takers.</li> <li>- Partner with local utility company to supply existing grid and/or work with local authorities to develop or upgrade grid.</li> </ul>	<p><i>Start and end date</i> From now to December 2025 (this can be extended depending on the situation)</p>
<p><i>Description of action (please specify for which ambition from Section 1)</i> Ambition 7.2</p> <ul style="list-style-type: none"> <li>- Technical design of the plant to include solar PV and batteries in order to guarantee a renewable penetration of at least 75%.</li> <li>- Document renewable penetration with energy yield analysis and simulation.</li> </ul>	<p><i>Start and end date</i> Technical development will intervene in phases after project structure for each plant is defined (average 3 to 6 months)</p>
<p><i>Description of action (please specify for which ambition from Section 1)</i> Ambition 7.b:</p> <ul style="list-style-type: none"> <li>- Develop cooperation frameworks with local authorities in targeted areas.</li> <li>- Mobilize private financing for 50 renewable based power plants.</li> <li>- Enter into power purchase agreements with clients, including anchor clients to ensure financial sustainability of projects.</li> </ul>	<p><i>Start and end date</i> From now to January 2029</p>
<p><i>Description of action (please specify for which ambition from Section 1)</i></p>	<p><i>Start and 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].*

Outcome	Timeline
<ul style="list-style-type: none"> <li>- Identify locations for projects development in remote and fragile areas to ensure high impact.</li> <li>⇒ 50 new locations identified for projects, including land/space for construction and installation of plants</li> <li>- Work with local authorities to define project structure and maximize benefits.</li> <li>⇒ 50 project concepts and structures developed and communicated to stakeholders</li> <li>- Partner with local utility company to supply existing grid and/or work with local authorities to develop or upgrade grid.</li> <li>⇒ At least 10 local utility company identified and partnership signed.</li> <li>- Technical design of the plant to include solar PV and batteries in order to guarantee a renewable penetration of at least 75%.</li> <li>⇒ 50 technical designs developed and validated.</li> <li>- Document renewable penetration with energy yield analysis and simulation.</li> <li>⇒ 50 energy yield studies for projects prepared.</li> <li>- Develop cooperation frameworks with local authorities in the targeted areas.</li> <li>⇒ Develop and sign 50 Memorandum of Understanding(s) with local or national authorities (MOU in each locations are not necessary given that some projects can be in the same location or implemented with international organizations).</li> <li>- Mobilize private financing for 50 solar energy plants.</li> <li>⇒ 50-80 million USD\$ of private investment mobilized to finance the 50 renewable based power plants</li> <li>- Enter into PPA with clients, including anchor clients to ensure financial sustainability of projects.</li> <li>⇒ At least 20 power purchase agreements signed with off-takers in targeted locations (PPA can cover multiple locations, it is hard to predict)</li> </ul>	<p>Please refer to timelines section 2</p>

### SECTION 4: REQUIRED RESOURCES AND SUPPORT

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

Costs of development, construction, installation, operations and maintenance of renewable based power plants vary from one location to another. Costing each component will require advance projects development, which is part of the compact. Based on our experience in Somalia, Kenya and South Sudan, Kube Energy evaluates that each solar plant (for a size of 1-5 MW of PV and 2-8 MWh of battery) will cost around 1 to 10 million USD\$. We estimate the total capital investment requirement between 50 to 80 million USD\$. For your information, the most time consuming is the development phase, while the actual construction takes in general 3 to 6 months. The batterie component, as well as transport of material are often the costliest in fragile areas.

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: We estimate that between 50 to 80 million USD\$ will be required to build and operate 50 renewable based power plants in fragile areas. Kube Energy usually works with private investors to mobilize funds.. We aim to mobilize around 60 percent of these funds as equity capital from private investors (corporate investors, development financial institutions and investment funds) , and the remaining 40% as debt (development banks and investment funds) .</i>
<input checked="" type="checkbox"/> In-Kind contribution	<i>Description: 1.5 million USD\$ to assist the development phase of the 50 projects will allow simultaneous development of projects, ensure legal support to navigate areas where there no energy regulatory frameworks, development of social and environmental studies, and build up (or eventually contract another company) a technical team to develop the designs of solar power plants.</i>

<input checked="" type="checkbox"/> Technical Support	<i>Description: in-kind contribution to provide technical support, including design and optimization of solar power plants (“early technical work”), as well as advice on other technical aspects on the implementation of solar power projects. This support will reduce the general requirement for in-kind contribution.</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.

6 countries; total of 100,0000 people per plants and about 35 international organizations.

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]*

In partnership with local governments (SDG 17), the construction of solar power plants in the selected fragile areas has a direct impact on development opportunities, peacebuilding and demand for goods and services by improving access to clean, reliable and affordable energy (SDG 7). The power generated is cheaper than the one produced by diesel-powered mini grids, reducing the overall price of electricity and making it more accessible to communities. The reliability of power has increased, reducing power outage time and lost sales for businesses. Local government and basic services can offer better services, including security, education and health care. The availability and increased reliability of electricity allow industries and businesses to produce better and at lower costs, leading to increased commercial output. Savings made by international organizations connected to the solar plants can be reallocated to impactful programmes increasing resilience of communities. This results in more energy demand. The connection to the local grid, through local utility companies, improves distribution and increase access by communities, who often rely on charcoal or diesel generators for electricity. Kube Energy’s investors see a return on investment, improving the investment climate in fragile settings and attracting even more commercial opportunities and eventually infrastructure development. Other positive effects include the creation of jobs in the operations phase, and the payment of taxes and fees by Kube Energy to the local governments as per signed MOUs.

Please refer to SDGs company framework / theory of change for further information.

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]*

The renewable penetration of each solar power plants enables a direct and immediate reduction of GhG emissions by replacing diesel generators and charcoal usage by communities and businesses. International organizations connected to the plants reduce their environmental footprint, aligning with the climate objectives of their respective organizations. The ecosystem around renewable energy created by the projects encourages federal and local governments to embrace renewable energies and improve the regulatory framework.

Please refer to SDGs company framework / theory of change for further information.

## 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.

- Total energy generation and renewable penetration performance will be monitored and documented by regular reports on electricity output from the solar plants.
- SCADA systems will be installed to ensure performance and reliability of the solar plants.
- Technical design of the plant to ensure a minimum of 75% of renewable penetration will be documented by energy yield study.
- Company annual financial reports will document on the status of the projects and achievements of the 50 targeted new energy infrastructures.
- Report from local utility partner will help monitoring the number of new offtakers among communities.

## 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

Kube Energy Compact

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)

Kube Energy AS

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

Kristen Petillon: [kristen@kubenergy.com](mailto:kristen@kubenergy.com) +41798511116

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.

Please visit our website [www.kubenergy.com](http://www.kubenergy.com). This website contained our recent publications. We have also an innovative partnership with UNHCR and MIT to develop a smart energy system that aims to influence loads to reduce consumption and match it with solar energy generation.