



**SDG7 Energy Compact of the European Commission and the International Energy Agency (IEA): National zero-emission energy roadmaps by 2050
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): Time frame: Context for the ambition(s):
<input type="checkbox"/> 7.3. By 2030, double the global rate of improvement in energy efficiency.	Target(s): Time frame: Context for the ambition(s):
<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): Time frame: Context for the ambition(s):
<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): Development of national zero-emission energy roadmaps by 2050.

Time frame: 2022-2025

Context for the ambition(s):

A shift to a climate-resilient energy system is an urgent global priority encompassed in goals of the UN 2030 Agenda and Paris Agreement. Meeting these objectives will require several elements: a combination of technology and innovation to advance the energy transition and improve carbon management; supportive and proactive policies; associated job creation and socio-economic improvements; fostering the opportunities for green global economy and international co-operation to accelerate the global green deal. There is increasing momentum for the energy transition around the world.

As stated by the IEA in its 2021 report, [Net Zero by 2050: a Roadmap for the Global Energy Sector](#). "The number of countries announcing pledges to achieve net-zero emissions over the coming decades continues to grow. But the pledges by governments to date – even if fully achieved – fall well short of what is required to bring global energy-related carbon dioxide emissions to net zero by 2050 and give the world an even chance of limiting the global temperature rise to 1.5 °C".

The European Commission launched in 2019 its [European Green Deal](#) : a roadmap towards Climate neutrality by 2050 and also the new EU growth model. In the framework of this comprehensive plan, several policy initiatives were presented: a just transition mechanism, a climate law, a farm to fork strategy, a biodiversity strategy, a hydrogen strategy, an offshore wind strategy, and a circular economy action plan, and a package of regulations to reach a 55% reduction of EU emission by 2030.

In all its bilateral or multilateral contacts, the European Union urge all international partners to also put in place clear and robust low carbon policies and green national recovery strategies. This will give our societies a sense of direction and purpose, and guide investors, businesses, workers and consumers towards sustainability, which can be facilitated by frameworks for sustainable finance and taxonomy principles.

The EU stands ready to engage with partners around the world on ways to direct investment to environmentally sustainable economic activities. A comprehensive, fair and green dimension should remain present throughout the EU's development assistance and cooperation frameworks with third countries and other external policies in the context of this recovery.

The EU wants to lead by example, showcase how to proceed, inspire actions and help partners to achieve their transition towards a net zero emission world. Working together with international partners is an absolute must, if we all are to emerge from this crisis stronger.

To this end, the European Commission has mobilized more than €3 billion between 2014 and 2020 to support the sustainable energy sector in Africa. Under the "Global Europe: Neighbourhood, Development and International Cooperation Instrument" (NDICI – 'Global Europe'), which has the total budget of €79.5 billion for the time period 2021-2027, the engagement will continue. Through NDICI - 'Global Europe', the EU will also boost its support to sustainable investment worldwide under the European Fund for Sustainable Development Plus (EFSD+) by leveraging private capital to complement direct external cooperation grants. The External Action Guarantee, focusing on unlocking, leveraging and de-risking investments also in the sustainable energy sector, will back the EFSD+.

The development of national zero-emission energy roadmaps by 2050 will participate in achieving SDG7 with detailed recommendations to reach the objectives of the Paris Agreement. They will be designed to "ensure access to modern, reliable, sustainable and modern energy for all", with a substantial increase of the share of renewable energy and of the rate of energy efficiency.

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></p> <p>The European Commission and IEA are planning to¹ join forces to underline the essential contribution of the energy sector to achieving a climate neutral economy with net-zero greenhouse gas emissions, including to:</p> <ul style="list-style-type: none"> • accelerate and expand the net-zero movement of governments and companies committed to helping deliver the energy sector's contribution to achieving net-zero economies; • develop a collaborative international net-zero campaign with interested partners to raise awareness and accelerate the transitions to net zero, as an urgent call for action; • team up with partners – in particular in support of African countries' efforts - to develop access to affordable modern energy services from sustainable sources and clean technologies, leapfrogging to advanced stages of sustainable development. <p>¹ Subject to internal validation process</p>	<p><i>Start and end date</i></p> <p>2022-2025</p>
<p><i>Description of action (please specify for which ambition from Section 1)</i></p>	<p><i>Start and end date</i></p>
<p><i>Description of action (please specify for which ambition from Section 1)</i></p>	<p><i>Start and end date</i></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].*

<p><i>Outcome</i></p> <p>National zero-emission energy roadmaps by 2050 are intended to represent pathways for energy systems decarbonisation that are inclusive and ensure a just, socially fair transition that leaves nobody behind. The roadmaps would explore feasible technology pathways while ensuring security of energy supply and growing energy access. They will contribute to the achievement of SDG7 and the Paris Agreement, in particular through an increasing share of renewable energy in the energy mix and improved energy efficiency.</p>	<p><i>Date</i></p> <p>2025</p>
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SECTION 4: REQUIRED RESOURCES AND SUPPORT

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

European Commission will consider mobilizing EURO 2 300 000 to support the development of national zero-emission energy roadmaps by 2050.

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>
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<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.

Countries with developed energy systems, which need pathways to decarbonise their energy systems in an inclusive and just manner. The project would focus on four of IEA Association countries to be determined in developing regions. Potentially, all inhabitants of these countries could benefit from such an approach.

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]

National zero-emission energy roadmaps by 2050 would provide a measurable action framework for implementation of SDG7 by 2030 within the aim to promote a zero emission strategy. The roadmaps would identify the perspectives of the renewable energy development in the regions, which provides the countries with the pathways of reaching SDG7.

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]

National zero-emission energy roadmaps by 2050 would identify practical avenues for the advancement of low/zero-carbon energy solutions. In this way, the selected countries would be supported in transitioning to climate-resilient systems, while ensuring just and inclusive transitions. This granular approach would assist countries, including those with fossil fuel reserves, to consider alternative, forward-looking, strategic choices in line with 1.5 degree objective.

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.

The progress would be monitored by yearly reports prepared by IEA.

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

SDG7 Energy Compact of the European Commission and the International Energy Agency (IEA) : National zero-emission energy roadmaps by 2050

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)

European Commission & International Energy Agency

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

Dimitrios Zevgolis, Deputy Head of Unit, DG CLIMA

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.