



SDG7 Energy Compact of Graded S.p.A.

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.

(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 checked="" type="checkbox"/> 7.2. By 2030, increase substantially the share of renewable energy in the global energy mix.	Target(s): 25 MW Time frame: 2026 Context for the ambition(s): Increasing our energy production with the implementation of renewables plants (exp. PV, Hydrogen, Geothermal).
<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 checked="" 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: 2026 Context for the ambition(s): Consolidating and increasing the collaboration with the IRENA organization and we are a part of the UN Global Compact Network from 2021, especially about PV plants, Hydrogen, sustainability. Moreover, as this year we will participate in EXPO Dubai, we want to join every kind of International/National event focused on energy transition and SDGs.
<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	Target(s): Time frame: Context for the ambition(s):

with their respective programs of 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:

Version 3 Aug

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> Our ambitions is being an energy producer with the implementation of renewables plants (exp. PV): related to Green Hydrogen at the moment we are closing a contract to buy a new PV & Electrolyzer plant. Action 1.1.: Purchasing of regional full plant, that produces, uses and stores Green hydrogen; Action 1.2.: Data Monitoring and analysing made from the hydrogen full plant, even with different condition from technical data (e.g. we will use rain water and not tap water, to save water, and we will study if it will work or not); Action 1.3.: Purchasing of another hydrogen plant, if we have encouraging data; Action 2: Increasing PV in places where energy is not available (e.g. farm, islands);</p>	<p><i>Start and end date</i> 01/01/2021 – 31/12/2021</p>
<p><i>Description of action (please specify for which ambition from Section 1)</i> We are collaborating with the IRENA Organization and we are a part of UN Global Compact Network from 2021. Action 2.1.: become a regional leader about sustainability and renewables, closing strict agreements with University, companies and research centers to develop new technologies applied with renewables. Outcome 2.1.1.: Get the top 20 among companies of Campania (The region of South Italy where Graded had the headquarter). Action 2.2.: started a collaboration with the Rochester Institute of Technology (RIT) in Dubai, in order to test the new green energy system based on geothermal energy developed with the R&D Project carried out in Naples. Outcome 2.2.1: The objective of GeoGrid is to use geothermal energy for the buildings cooling realizing a system with high energy efficiency, low investment costs, high energy and economic savings and a low environmental impact.</p>	<p><i>Start and end date</i> 01/01/2019 - 31/12/2026</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>

Version 3 Aug

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	Date
- Outcome one: buy n. 1 Hydrogen Plant by the end of 2021.	- 31/12/2021
- Outcome two: building a global network made by international partners and research center collaborations.	- 31/12/2026

SECTION 4: REQUIRED RESOURCES AND SUPPORT

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

Items 1: Hydrogen first plant, invested 40,000 euros; for other plants we have a budget of 1.000.000 euros to spend for the next 2 years.
 Items 2: 100.000 euros for local initiatives and partnerships with University and Research Centers to promote and develop new projects and technologies and investing in human capital with high specializations. Costs include: 35.000 euros for specialized personnel, 40.000 euros for the participation in international events, 25.000 euros to finance local start-ups involved in the hydrogen sector.

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

SECTION 5: IMPACT

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

Hydrogen first Plant based in South Italy, city of Castelvoturno; for other plant in progress, we are looking for the best opportunities concerning cost of investments and profit.
 Estimated people impacted: up to 45.000 persons.

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]

Related to our Hydrogen project, we are committed with the SDGs number 7, about green energy because that project gives us the possibility to increase the percentage and the market share in renewables energy, PV and Hydrogen in particular. We are focused to make it more attainable for small plants. Every action for climate is useful for every SDGs, especially this plant could be useful not only for the SDG7, but also for SDGs 9 and 13, because it can help reduce pollution and (if our research is good, we can find a way to save water).

Version 3 Aug

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]

In 2020, thanks to the Renewable Energy Plant, Graded S.p.A. saved 438 tons of CO2. In the first quarter of the year, Graded S.p.A. saved 1.46 tons of CO2. We want to improve more and more. Hydrogen is the

fuel that can help us to reduce CO2 as much as possible.

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.

Outcome 1: Verifying the purchasing of the plant and its correct work after we finish due diligence of financial matters;
Outcome 2: Verifying monthly the agreements of our partner, cited above.

SECTION 7: GUIDING PRINCIPLES CHECK LIST

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

Version 3 Aug

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

GREEN HYDROGEN 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)

GRADED SPA_ an energy service company based in Naples with two branches in Kenya and Dubai
The hydrogen plant will be purchased in Dubai as well.

8.3. Lead entity type

Government

Non-Governmental Organization (NGO) Private Sector

8.4. Contact Information

Local/Regional Government Civil Society organization/Youth

Philanthropic Organization

Multilateral body /Intergovernmental Organization Academic

Institution /Scientific Community Other relevant actor

ludovica.landi@graded.it; claudio.miranda@graded.it; pasquale.sagnella@graded.it; mariateresa.russo@graded.it

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.

We are interested in all these areas, but at this moment we don't need to add targets. We could promise to have a close connection with your organization about all these themes related to the focus areas selected above.

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.

Version 3 Aug2