

SDG7 Energy Compact of the Basque County

**Commitment on the creation of a sound and sustainable local market, promoting the production of renewable and low-carbon hydrogen, and stimulating domestic demand
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**

[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"/> By 2030, ensure universal access to affordable, reliable and modern energy services.	Target(s): Affordable and carbon-free hydrogen-based energy for all consuming sectors, especially for those hard-to-abate, with no viable electrification alternatives. Time frame: 2021-2030 Context for the ambition(s): Basque Hydrogen Strategy.
<input checked="" type="checkbox"/> By 2030, increase substantially the share of renewable energy in the global energy mix.	u3(, an)-38/F4 12 Tf19 0 g0 G[()] T#TQ320for

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

2.1. Please add at least one key action for each of the elaborated ambition(s) from section 1. *[Please add rows as needed].*

<i>Description of action (please specify for which ambition from Section 1)</i> Action 1: Promote the installation of electrolysis plants to produce hydrogen by using renewable energy (Ambition 7.1).	<i>Start and end date</i> 2021-2030
<i>Description of action (please specify for which ambition from Section 1)</i> Action 2: Encourage the adaptation of existing hydrogen production plants from fossil energy sources to install technology for carbon capture, storage, and use (Ambition 7.a).	<i>Start and end date</i> 2021-2030
<i>Description of action (please specify for which ambition from Section 1)</i> Action 3: Promote the production of synthetic fuels and biofuels from renewable or low-carbon hydrogen, with high added value due to their simple logistics and usability (Ambition 7.a).	<i>Start and end date</i> 2021-2030
<i>Description of action (please specify for which ambition from Section 1)</i> Action 4: Promote the replacement of grey hydrogen by renewable or low carbon hydrogen as feedstock for industrial consumers, as a way of reducing the carbon footprint of their products (Ambition 7.2).	<i>Start and end date</i> 2021-2030
<i>Description of action (please specify for which ambition from Section 1)</i> Action 5: Promote a fuel switch to hydrogen or blends containing it in many industries as a means of reducing the carbon footprint. This measure could be employed in the chemical, petrochemical, steel and logistics industries and, in general, in any sector that is an intensive user of natural gas and other fossil fuels (Ambition 7.2).	<i>Start and end date</i> 2021-2030
<i>Description of action (please specify for which ambition from Section 1)</i> Action 6: Promote the adaptation of equipment for the consumption of hydrogen or hydrogen blends in buildings (Ambition 7.1).	<i>Start and end date</i> 2021-2030
<i>Description of action (please specify for which ambition from Section 1)</i> Action 7: Promote the replacement of fossil fuels in transport with hydrogen or hydrogen blends. This measure is mainly aimed at bus fleets and heavy goods transports, but may extend to other users, including maritime transport. Although consumption will generally be in fuel cell vehicles, for certain applications the feasibility of using hydrogen blends with fossil fuels such as natural gas could be analyzed (Ambition 7.1).	<i>Start and end date</i> 2021-2030

<i>Description of action (please specify for which ambition from Section 1)</i> Action 8: Promote the implementation of hydrogen filling stations in the Basque Country, from the perspective of the potential needs of the fleet owners, through subsidy programs or other financing instruments (Ambition 7.1).	<i>Start and end date</i> 2021-2030
<i>Description of action (please specify for which ambition from Section 1)</i>	<i>Start and end date</i> 2021-2030

Action 8: Promote the implementation of hydrogen filling stations in the Basque Country, from the perspective of the potential needs of the fleet owners, through subsidy programs or other financing instruments (Ambition 7.1).

SDG 7: Affordable and Clean Energy; SDG 8: Decent Work and Economic Growth; SDG 9: Industry, Innovation and Infrastructure; SDG 11: Sustainable Cities and Communities; SDG 12: Responsible Consumption and Production; SDG 13: Climate Action.

5.3. Alignment with Paris Agreement and net-zero by 2050 - Please describe how ____ 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 Basque Hydrogen Strategy is focused on clean hydrogen production and use, therefore, all actions are aligned with the objectives of the Paris Agreement, in particular with the aim of a) help holding the increase in the global average temperature to well below 2 °C above pre-industrial levels, and to pursue efforts to limit the temperature increase to 1.5 °C above pre-industrial levels, recognizing that this would significantly reduce the risks and impacts of climate change.

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.

In partnership with UN-Energy, and to enable the achievement and tracking of this Energy Compact, the Basque Government commits to report and to measure progress on this Energy Compact on an annual basis, with the results being made public.

The following Key Performance Indicators will be tracked in the period 2021-2030:

Installed electrolysis capacity (MW);

Total H2 production (t);

Renewable H2 production (t);

Low-carbon H2 production (t);

Synthetic fuels production (t);

H2 consumed in industry as feedstock (t);

Renewable H2 consumed in industry as feedstock (t);

Low-carbon H2 consumed in industry as feedstock (t);

Energy consumption in the industrial sector (toe);

H2 consumption in the industrial sector as fuel (toe);

Number of H2 pilot projects in buildings (no.);

Number of H2 buses (no.); Number of freight transport vehicles (no.);

Number of H2 refueling stations (no.);

Number of Basque Provinces with H2 refueling stations (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

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.

Please provide additional website link(s) on your Energy Compact, which may contain relevant key documents, photos, short video clips etc.

<https://www.eve.eus/EveWeb/media/EVE/pdf/3E2030/EVE-3E2030-Ingles.pdf>