

## **SDG7 Energy Compact of Electrochaea GmbH**

**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)

7.1. By 2030, ensure universal access to

developing countries, in particular least developed countries, small island developing States, and land-locked developing countries, in accordance with their respective programs of support.

Context for the ambition(s): availability of the renewable energy such as wind and sun in many developing countries is a major resource due to their geographical position. Electrochaea's technology is based using renewable energy to capture and store CO<sub>2</sub> for usage in energy storage and . Production of renewable methane in developing countries would make renewable energy accessible when fluctuating wind and solar is not available. In addition, conversion of renewable power to green methane can could be stored using well known technology or even liquified for exable

Make biological methanation accessible in developing countries

As an SME Electrochaea is presently partnering with local indigenous companies and international development banks to make the unique technology available globally and with a specific focus on developing countries. Electrochaea is primarily a technology provider that rely on leading project partners to develop project and make use of the biological methanation technology. Therefore, partnership with companies and individuals who have experience in developing clean-energy projects in developing countries

\* The support needed is dependent on framework conditions. The present figure is based on the difference between the 2021 price for fossil based natural gas and the price needed to produce green e-methane. With an expected increased premium for CO2 recovery, the support needed is expected to decline accordingly.

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.

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

## SECTION 5: IMPACT

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

Electrochaea technology will first be rolled out in EU and North America, but the technology is suitable for implementation world wide. Required resources are renewable electricity and a CO2 source. 28 41

## 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 Electrochaea business model is based on royalties on produced e-methane and CO2 credits. Thus, Electrochaea is through its accounting capable of monitoring progress.

## 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



SECTION 9: ADDITIONAL INFORMATION (IF REQUIRED)

Please provide additional website link(s) on your Energy Compact, which may contain relevant key documents,