THE HyEfRe NEWSLETTER

HYDROGEN INTEGRATION FOR EFFICIENT RENEWABLE ENERGY SYSTEMS

ABOUT THE PROJECT:

Sector-coupling is a promising approach to replace fossil fuels with renewables. However, this idea of “electrifying” the entire economy requires the rollout of new technologies and rules. **The HyEfRe project helps with this by establishing green hydrogen ecosystems in eight regions.** The partners foster an investment-friendly environment for renewable energy and green hydrogen technologies. They evaluate hydrogen potentials with a new model and develop and test a new tool to calculate ideal parameters for technical plants. Their action plan for policy actors will reduce regulatory barriers impeding a timely expansion of renewables and green hydrogen.

CONTENTS:

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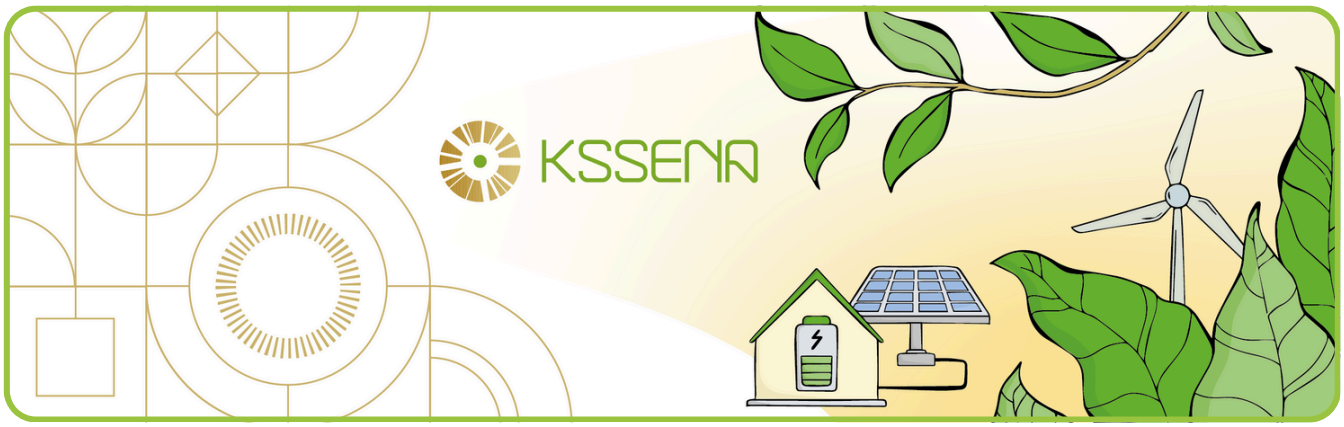
START DATE: JUNE 2024
END DATE: NOVEMBER 2026

1. NEXT HyEfRe MEETING

We are pleased to announce that the next project meeting will take place on 10-11 December in Ljubljana, Slovenia. This meeting will provide an opportunity for all partners to reflect on the tasks completed so far and to jointly plan and discuss upcoming activities. The meeting will be hosted by the Energy Agency of the Savinjska, Šaleška and Koroška Region, an important organization in promoting energy efficiency and sustainable practices in the region.

Key details:
Dates: 10-11 December 2024
Location: Ljubljana, Slovenia



We look forward to productive discussions and a successful meeting as we work together towards our common goals. **To get the latest details on the upcoming meeting, we encourage you to follow the HyEfRe project on social media.**

2. WORK PACKAGE 1

To provide a deeper understanding of the HyEfRe project, we are pleased to present a series of informative updates on our work packages in the upcoming newsletters.

In this issue, we focus on Work Package 1 (WP1), which encompasses a comprehensive set of activities and deliverables. This work package consists of six key activities, each of which is designed to produce multiple deliverables and four key project outputs. Through these efforts, we aim to lay a strong foundation for the overall success of the project and ensure that our objectives are effectively met.

Stay tuned for more insights into the subsequent work packages in future issues!

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WP 1 ACTIVITIES

SUPPORT FOR HYDROGEN PROJECT AND ENERGY PLANNING

Specific Objective

Enable 5 regions in CE in **planning and decision making of green hydrogen projects** and make learning results and tools publicly available

Activity Period: 1

A.1.1 BEST PRACTICE ASSESSMENT

Identify and analyse **best practices for green hydrogen production and waste heat utilisation in partner countries.**

A.1.2 HYDROGEN POTENTIAL MODEL

Develop a **model to analyse the hydrogen potential** based on availability of surplus renewable electricity.

Activity Period: 1-4

Activity Period: 1-4

A.1.3 DECISION SUPPORT TOOL

Decision support tool for hydrogen hub / hydrogen technology installation. The tool will provide recommendations for the ideal sizing and operation schedule of a hydrogen hub for a certain location.

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A.1.4 PILOT ACTION FOR TESTING THE HYDROGEN POTENTIAL MODEL

The hydrogen potential model will be tested in the pilot areas. Feasibility studies for hydrogen implementation will also be carried out.

Activity Period: 2-4

A.1.5 PILOT ACTION FOR TESTING THE DECISION SUPPORT TOOL

The decision support tool will be tested, ASPs will be guided in its use and workshops will be held to promote its uptake in CE.

Activity Period: 2-4

A.1.6 PLATFORM INTEGRATION

Information and tools will be promoted and **integrated into the platform** of the H2CE project.

Activity Period: 4-5

WP 1 OUTPUTS

SUPPORT FOR HYDROGEN PROJECT AND ENERGY PLANNING

Period 1
OUTPUT 1.1

ORGANISATIONS COOPERATING ACROSS BORDERS

Create a strong network for cooperation during and after the project

11 Partners

21 Associated partners

Period 4
OUTPUT 1.2

PILOT ACTIONS FOR HYDROGEN INTEGRATION

Pilot to test the hydrogen potential model and the decision support tool.

Use the learnings and feedback for future improvements.

H_2 production potential

HYDROGEN POTENTIAL MODEL

Provide a pre-feasibility assessment of the hydrogen production potential in a certain area (based on real data).

Aims to support efficiency of local energy planning.

Period 4
OUTPUT 1.3

Sizing
Operation
schedule

DECISION SUPPORT TOOL

Provide recommendations for hydrogen hub projects based on technological and economic feasibility.

Use of the calculated hydrogen potential for hydrogen hub planning.

Period 4
OUTPUT 1.4

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