

REMOTE

*EU FRAMEWORK PROGRAMME FOR R&I - INNOVATION FUND
SYNERGIES WORKSHOP*

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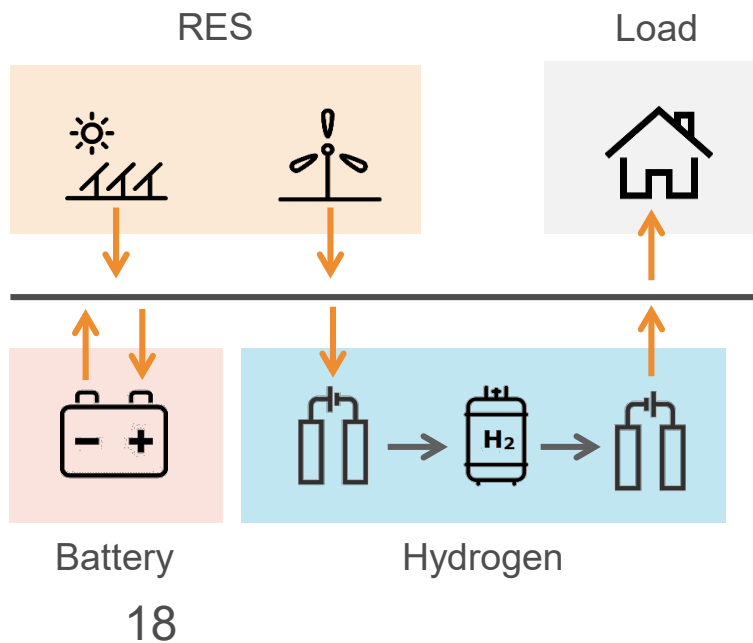
Overview & Background of REMOTE

Funded by Fuel Cells and Hydrogen 2 Joint Undertaking (GA 779541)



<https://www.remote-euproject.eu/>

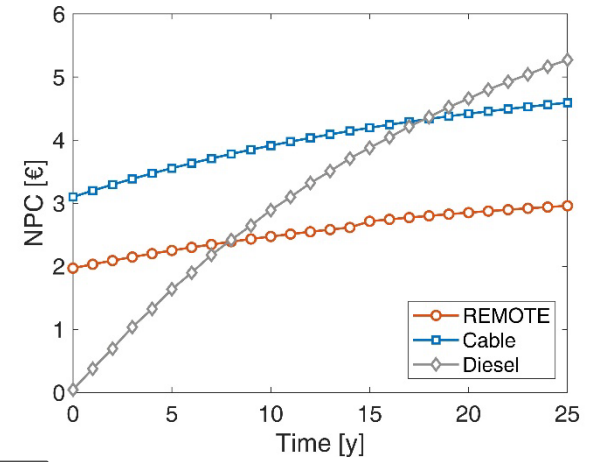
Local renewables (wind, solar, hydro) coupled with **hydrogen-battery** energy systems for remote areas



50 kW PEM EL
100 kW PEM FC

80 kW ALK EL
100 kW PEM FC

25 kW ALK EL
50 kW PEM FC



Low-temperature technologies

Deployment Prospects

Following the completion of the R&I project, what exactly is required to promote/prepare the technological solution for the next stage of the innovation pipeline (deployment)?

Technology available and demonstrated at small-medium scale (around 1 MW)



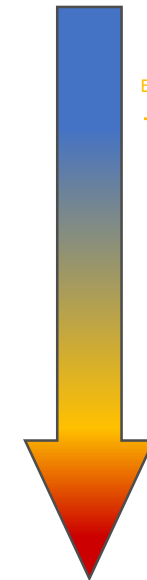
Large potential market(s)

- Off-grid solutions (e.g., island, remote areas)
- Isolated-micro-grids (RES-based areas with connection to the electric grid)
- Smart energy districts inside municipalities
- Grid balance in smart-grid solutions (mainly, inside municipalities)

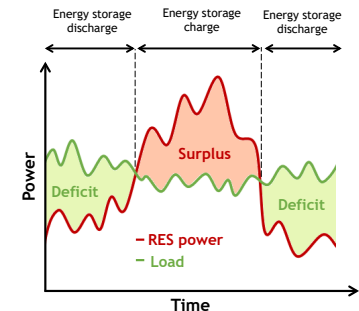
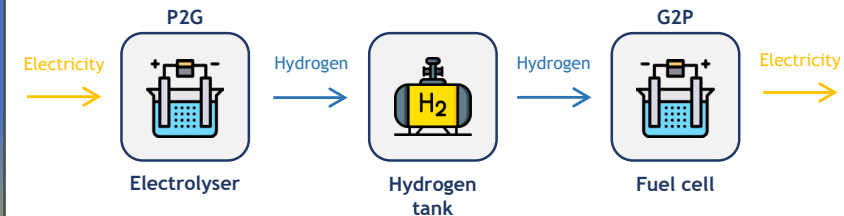
In different areas of the World

Support for scale-up of the technologies and system integration

1 MW



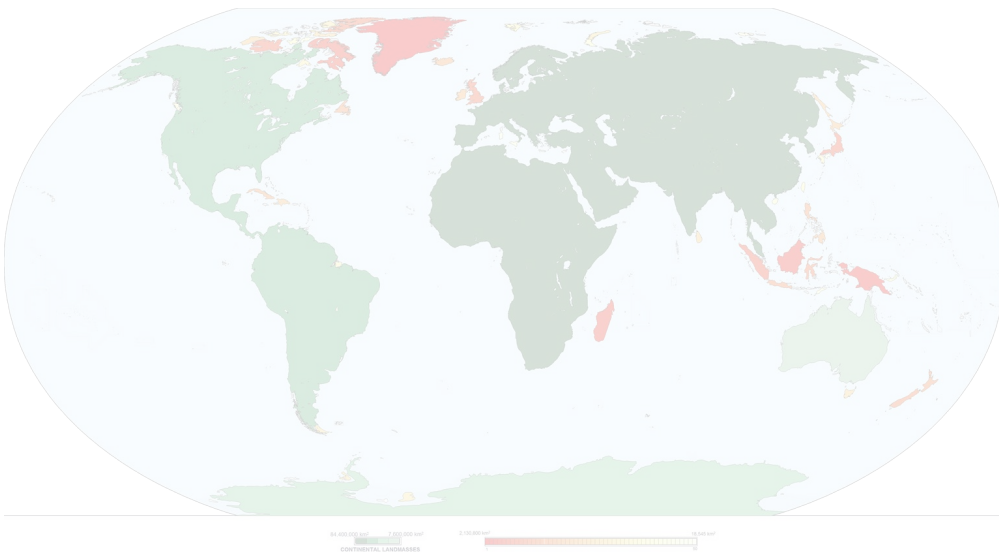
10-100 MW



Deployment Prospects

Why is the Innovation Fund specifically regarded as a suitable tool and opportunity to support the path to reaching deployment phase?

Global business allowing large emission saving



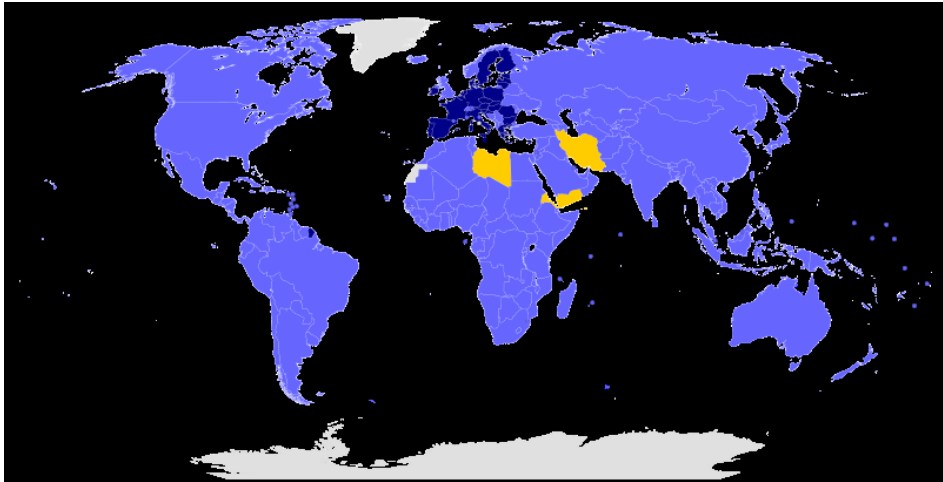
Thousands of populated islands and mountain communities around the World that rely on diesel generators to produce electricity
Only considering island, around **750 million inhabitants** around the World are involved.
Save the emissions of **1.5 GtonCO₂/year**

Compliant with target of Innovation Fund

The **Innovation Fund** focuses on highly innovative technologies and big flagship projects that can bring on **significant emission reductions**

Deployment Prospects

What do you envisage will be the main challenges in promoting the R&I output to deployment (via the Innovation Fund)? How will these challenges be addressed?



Individuate suitable end uses (installation sites) with positive business cases (to start with: islands and remote communities)

Disseminate and promote the availability of these power-to-power energy storage systems in more adapt areas:

Africa, Asia, Australia, South America

Generate and optimize positive business cases in these first-adopter areas

Thank you