



LoCEL Horizons

We are excited to share a semester full of progress in this fourth edition of our newsletter! In this issue, we highlight our recent activities, which include field work, participation in various international events and new peer-reviewed publications. We also take a look at some impressive numbers of a successful 2024. Discover how we are advancing the development of a new clean energy and cooking fuel solution for off-grid communities.

IN THE SPOTLIGHT

First visit to pilot site in Zambia

In October, LoCEL-H₂'s energy access experts from RHYDE, sociology specialists from University of Naples Federico II and green hydrogen experts from Loughborough University collaborated on their first joint visit to the pilot site in Zambia.

The field trip included productive discussions about the project with **local stakeholders**, identified through sociological mapping work. Additionally, the team carried out various **community engagement activities**, including a focus group discussion with the women of the village.

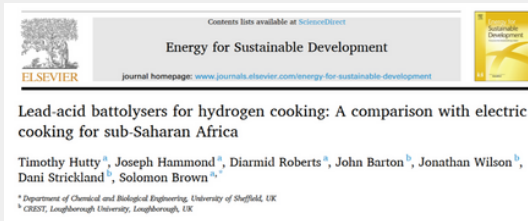
This visit not only provided a fantastic opportunity to advance our work at the Zambia pilot site but also allowed the green hydrogen team to see firsthand how the battery-electrolyser technology they are developing can positively impact the community. This insight is crucial for developing the best possible energy solution for each pilot.



Two new journal publications

1. Loughborough University's green hydrogen experts, Prof Dani Strickland and Dr Jonathan Wilson, co-authored this paper presenting the group's evaluation of lead-acid battery-electrolysers as a possible route to cleaner cooking in sub-Saharan Africa.

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2. A collaboration between electrical engineering experts from Lahore University of Management Sciences, Reesha Arshad and Prof Hassan Khan, and sociology specialists from UNINA, Dr Giulia Mininni and Prof Rosanna De Rosa, this paper evaluates how to enhance climate resilience of vulnerable women.

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[Click here to access all LoCEL-H₂ publications](#)

NEWS FROM THE CONSORTIUM

First LoCEL-H2 webinar

We were thrilled to welcome **100 participants** in our first webinar “Energy for Africa” in June! Besides having the opportunity to introduce our project, we had a day full of inspiring talks by representatives from the projects Aftrak, CASASOL, EMERGE, HyAfrica, ONEPlanET and UMBANE, and a special guest from the International Finance Corporation.

[Click here to access the presentations](#)

General Assembly and Review Meeting

Our team gathered in Brussels in July to review updates across work packages and reinforce our collaborations. The gathering also provided an excellent opportunity to exchange with our Advisory Board and Ethical Advisors. Following the assembly, we engaged with the European Commission as part of the regular review process. This session offered constructive feedback, helping us refine our approach and continue advancing toward our project goals.



MAKING AN IMPACT: OUR 2024 IN REVIEW



20+

Abstracts and papers accepted in conferences



100+

Stakeholders reached in Côte d'Ivoire & Zambia



350+

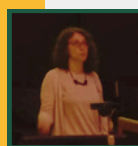
New followers on our social media



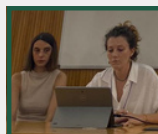
6,000+

Visits to our website from 80 countries

CONFERENCE HIGHLIGHTS



July: University of Naples Federico II at the 15th IST International Sustainability Transitions, Norway



September: University of Naples Federico II at 17th ESPAnet Italian Network for Social Policy Analysis Conference, Italy



October: Lahore University of Management Sciences at IEEE GHTC Global Humanitarian Technology Conference, USA



September: Consortium for Battery Innovation, French Alternative Energies and Atomic Energy Commission, HOPPECKE, Loughborough University at ELBC Global Lead Battery Conference, Italy



November: Lahore University of Management Sciences at IEEE IECON Industrial Electronics Society, USA



November: Loughborough University at 13th ICRERA International Conference on Renewable Energy Research and Applications, Japan



November: University of Gabes at IEEE International Multi-Conference on Smart Systems & Green Process, Tunisia



October: University of Gabes at Power-to-X Academic Research: Opportunities and Challenges, Tunisia



November: University of Naples Federico II at Environment Conference on Land and People, Italy



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