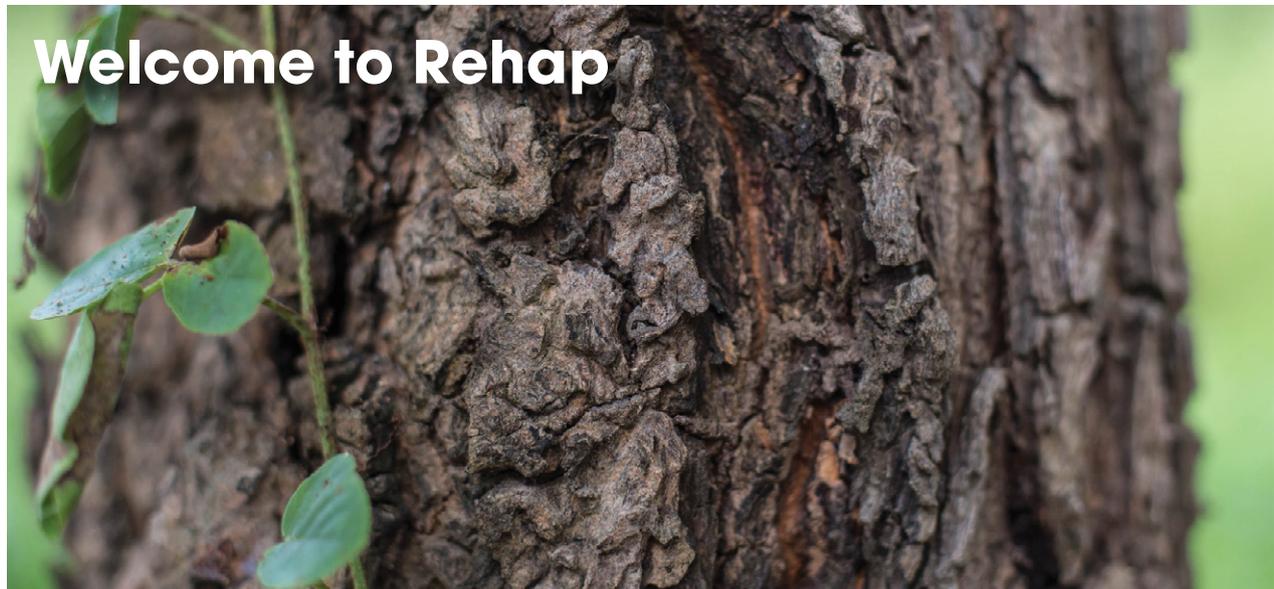


Systemic approach to **Reduce Energy** demand and CO₂ emissions of processes that transform agroforestry waste into **High Added value Products**



Welcome to Rehap

Rehap is an EU-funded project that aims to strengthen the European bio-economy by creating novel materials from agricultural and forestry waste, and then considering how they can be used commercially in the green building sector.

In this edition of the Rehap newsletter, the project is excited to reveal the outcome of its first webinar. We will also be introducing the

first-of-many faces working as part of the Rehap project, The brains behind Rehap, and your chance to get to know a little more about who helps make Rehap run.

Lastly, we have a brief wrap-up of the most recent partner meeting held in Genova, Italy. The meeting provides partners with the chance to highlight their progress of the last six months and plans for the next.

LINKS TO THE STORIES

1. Webinar highlights Rehap's progress in biomass feedstock and valorisation
2. The brains behind Rehap
3. April partner meeting round-up

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Webinar highlights Rehap's progress in biomass feedstock and valorisation

Responding to the ambitious targets set in the EU's Europe 2020 strategy of sustainable patterns of consumption and production, **Rehap** is an EU-funded project facilitating a significant step towards a better use of natural resources by creating novel materials from agricultural and forestry waste, whilst decreasing the use of fossil resources and energy in the process industry.

The project recently held its first webinar, Biomass feedstock and valorisation: An introduction and insight into transforming agroforestry waste into high added-value commercial and sustainable products developed by the REHAP project. The webinar took a close look at the progress being made after two years' working on biomass feedstock and valorisation.

Aitor Barrio, Rehap project coordinator from TECNALIA led the webinar providing a streamlined detailed overview of the technical objectives of Rehap and how it will demonstrate turning waste into reliable and sustainable applications later to be demonstrated as a prototype structure.

To provide a picture of the processes and regulations in sourcing this agroforestry waste material, Lars Wietschel from the University of Augsburg discussed the state-of-the-art agroforestry residues and the forecasting results of their 2030 waste potentials.

"The webinar took a close look at the progress being made after two years' working on biomass feedstock and valorisation"

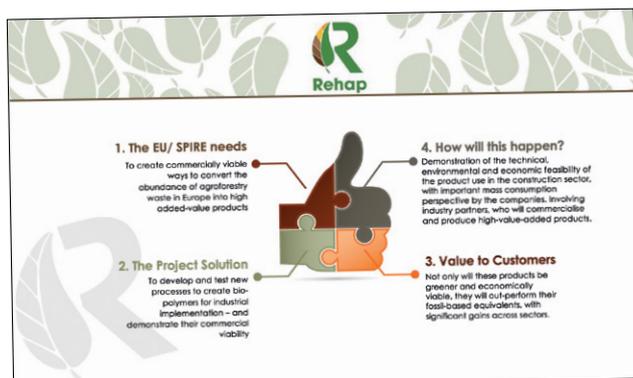
Discussing the optimisation of these biomass waste stream processing and upscaling, Tarja Tamminen, researcher at VTT, explained the novel approach developed to utilise bark by soda/kraft cooking away from the hot water bark extraction traditionally used in the industry.

Andrea Leoncini from RINA Consulting followed by providing a comprehensive look at the project's market analysis and impact through the life cycle approach. This provided an extremely interesting picture of how Rehap is hoping to sustainability develop and implement these processes for a greener building sector.

During the webinar poll questions were asked to the audience of professionals in companies and institutions such as the pulp and paper industry, biorefineries, forest proprietaries, sawmills and those in the chemical industries or phenolic resin manufacturing for example. Interesting data was revealed on how they saw the progress and wide-scale adoption across Europe in the uptake of bio-based products over their fossil-based equivalents.

These questions, and the results, along with the webinar on demand, [can be found here!](#)

This is the first in a series of Rehap webinars. [Sign up to the newsletter](#) to be the first to hear about the second edition.



The brains behind Rehap

The project is beginning a series of People Profiles of those working on the Rehap project. We would like to introduce you to as many friendly faces as possible, working at all levels, on the research, development, progress and future success of the project. From these we hope you can get to know us just a little bit better.

Find the following on the website:

- **Aitor Barrio:** As the coordinator of Rehap, Aitor gives us a glimpse of what it's like keeping the wheels turning for the project.
- **Andrea Leoncini:** Andrea's work is focused on LCA, LCCA and S-LCA and he tells us what this means for the future of the Rehap project and its developments.

Keep an eye out on the website and on Rehap's social media pages for more friendly faces and insights into the world of Rehap.

April partner meeting round-up

The most recent partner meeting was hosted by RINA in Genova, Italy. Project partners came together to review the progress of actions set during the previous meeting in October and looked closely at results from specific studies in the valorisation of intermediates in high added-value products and preliminary LCA and LCC evaluations.

Dissemination partners, Insight Publishers commenced the meeting providing detail on the exploitation and communication of the on-going project developments and results. This included open discussions on the first Rehap webinar, a second workshop and the project's place in IPL's Projects Magazine on the energy efficiency industry.

RINA continued by explaining preliminary LCA and LCC studies on four main materials: Bio-PUR, wooden boards, green concrete and PU adhesives. A short LCA/LCC session was then held with partners to revise the value chains and set benchmarks of these materials.

The second day was opened by Lars Wietschel from UNIA who have published resourceful papers on feedstock price analysis and feedstock potential with

another paper planned on further work on waste management.

Pieter Brabander from BBEPP elaborated on the lab trials for the planned upscaling of processes for the fermentation of 1,4-BDO and 2,3-BDO, before Rehap coordinator Aitor Barrio led detailed discussions with partners on the on-going research and developments in the valorisation of intermediates in the high added-value products. Partners were reminded to update the Risks table when completing their research.

To round off the meeting, Martin Mosquet introduced partners focused on the application of these products in the final construction elements (concrete, wooden panels, PU adhesives, insulation). LaFarage-Holcim, Foresa, Rampf and Collanti touched on their initial plans of this process for the next six months. In particular, the parameters for the tests that need to be done to develop these products.

The next meeting is proposed to take place in November, when the actions of the next six months will be reviewed. Location TBC.

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