

PRESS RELEASE

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BioTheRoS – Collaborative actions to bring novel BIOfuels THErmochemical ROutes into industrial Scale

The BioTheRoS Project is excited to announce the launch of its **Knowledge Hub**, now available at <u>https://www.biotheros.eu/en/knowledge-hub/knowledge-hub/</u>. This online platform serves as a central resource for information, collaboration, and learning related to the development of sustainable biofuels in Europe and beyond.

The BioTheRoS Project brings together experts from across Europe to support the transition toward greener fuels. The focus is on using **thermochemical conversion technologies**—like **pyrolysis** and **gasification**—to turn biomass (such as agricultural residues or forestry waste) into renewable biofuels that can help replace fossil fuels in the future.

The Knowledge Hub offers:

- **Publication Database** of technical reports, scientific papers, presentations, and links to key literature on biofuels and thermochemical conversion technologies
- **Research Network Directory** of organizations and research groups working on biofuels from gasification and pyrolysis
- **Tech State Navigator** offering a structured overview of Technology Readiness Levels (TRLs) and process steps for biofuel value chains using pyrolysis and gasification



"The Knowledge Hub is designed to make the work of BioTheRoS more open and accessible, by sharing knowledge and connecting people, we aim to help speed up the shift to sustainable biofuels."





Tech State Navigator, available at <u>https://www.biotheros.eu/en/knowledge-hub/tech-state-navigator/</u>, provides a clear, structured overview of the BioTheRoS current thermochemical conversion technologies and their Technology Readiness Levels. It allows users to explore the state-of-the-art of pyrolysis and gasification technologies, compare them, and identify where further development or support is needed. The Tech State Navigator is especially useful for *technology developers, investors*, and *decision-makers* seeking to better understand the landscape and potential of sustainable biofuel pathways.

Tech State Navigator	
Σ	Definition TRL
●→◆ ↓ ■←●	Flowsheet Pyrolysis and Upgrading
●→✦ ↓ ■←●	Flowsheet Gasification and FT Synthesis
Š.	Pyrolysis & Gasification Pathway Selector

BioTheRoS adopts a multidisciplinary, stepwise approach to the biofuels value chain, beginning with AI-powered assessments of biomass feedstock availability and advancing through to pilot-scale validation and modelling for industrial scalability. This approach not only highlights promising biofuel pathways but also emphasizes the synergies between technologies and sectors.

BioTheRoS is also working closely with international organizations to ensure that its efforts align with global strategies for just energy transition.

At the core of the project is a step-by-step approach: understanding which biomass resources are available, testing how well they work with pyrolysis and gasification, and building up the knowledge needed to bring these solutions to larger, commercial scales. This involves both practical testing and technical modelling, ensuring that the results are grounded in real-world conditions.

To explore the Knowledge Hub or learn more about the BioTheRoS Project, visit: <u>https://www.biotheros.eu/en/knowledge-hub/knowledge-hub/</u>

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