

les dossiers **d'AGROPOLIS** INTERNATIONAL

*Expertise of the scientific community
in the Languedoc-Roussillon region*





▲ Pilot reactor for continuous fixed-bed biomass pyrolysis and gasification, CIRAD.

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Biomass of the Champagne vineyards, a renewable energy source for bottle production

The BioViVe project (wine-growing biomass for glass melting) seeks to feed a glass furnace directly with syngas derived from the woody by-products of the pruning and grubbing-up of vines, to replace fossil fuels. This gas will be specifically tailored to the needs of glass melting and will be tested in Verallia's furnace in Oiry (Marne), so the project partners—Saint-Gobain Emballage, GDF SUEZ, XYLOWATT, CIRAD and the *Comité Interprofessionnel du Vin de Champagne*—will be doing laboratory research, semi-industrial combustion cell tests and long-term tests on the Oiry industrial furnace under normal production conditions. This project will also lead to the creation of an ongoing biomass collection industry in the Champagne vineyards.

The project's ultimate goal is to achieve about a 7% replacement of fossil fuels with biomass. In addition, the knowledge and experience gained thereby will enable partners to consider more significant development of the sector and a transition to a 50% replacement rate.

The UR "Biomass & Energy" is particularly involved in two project tasks, which it coordinates. The first is the characterization and mobilization of the waste vine-wood resource. The second concerns the project's research aimed at understanding and optimizing the staged gasification process, to achieve an increase in the heating value of the syngas. Gasification research is "Biomass and energy" research unit's core activity, to provide an effective biomass recovery solution to facilitate access to energy in the South.

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