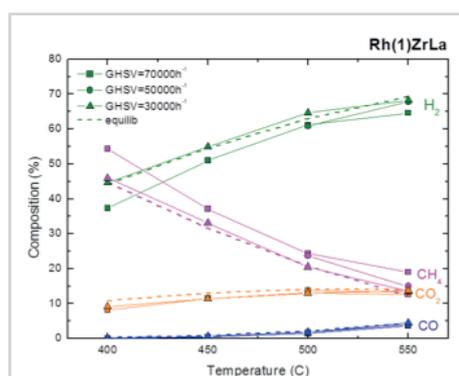
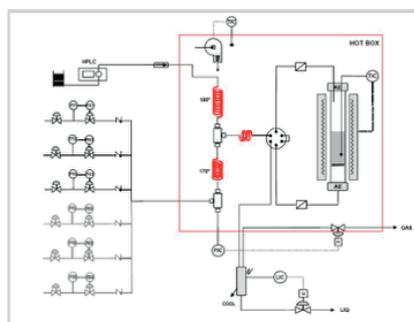


# LABORATORY OF DEVELOPMENT, TESTING AND CHARACTERIZATION OF INNOVATIVE CATALYSTS

**Innovations and Benefits** - The laboratory is equipped with instrumentation aimed at the development and characterization of innovative catalysts for several processes for energy application. To catalysts chemical and physical characterization SEM, RX, EDX, BET, TGA are available. The catalysts are dynamically tested by laboratory reactors (1-2 cm of internal diameter). The objective is to optimize the process, improve the activity of the catalysts and increase its stability.

**Use** - Development of new catalytic materials for energy use and applications.

**Applications and ongoing Activities** - Research activities and characterization of catalysts have been conducted inside the European project COMETHY Compact Multifuel-Energy To Hydrogen converter.



P&I Diagram and detail of one of the experimental stations for catalytic reactions. Variation of the product gas composition with temperature over Rh(1)ZrLa catalyst. Different kind of catalysts tested: pellets or on structured supports

**Characteristics: CUSTOM**

Thanks to its flexibility, the service can be adapted to specific needs and contexts