

# PRODUCTION OF SYNTHETIC NATURAL GAS (SNG) FROM GASIFICATION OF BIOMASS AND/OR COAL, EVEN OF LOW-RANKING QUALITY

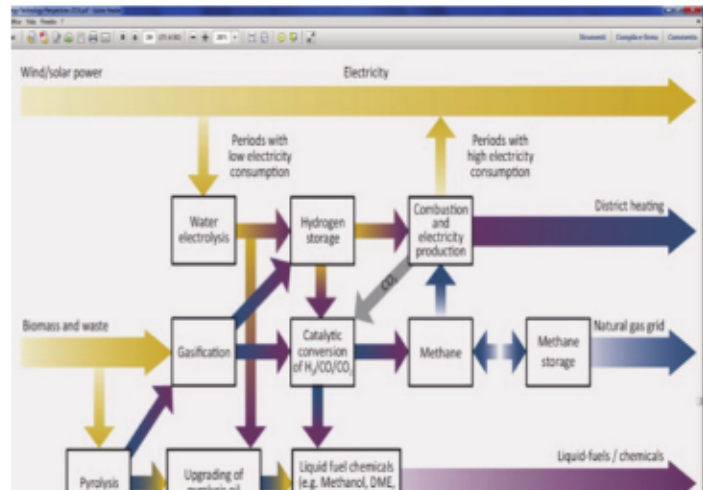
**Innovations and benefits** - These are innovative technologies related to the use of low-ranking and therefore low-cost coals, gasification and co-gasification of biomass, purification from tar and sulphur with innovative methods. The technology also ensures integration with CCS technologies for the de-carbonization of fossil fuel and integration with biomass. Development and testing of components, innovative sensors and advanced control strategies / systems.

**Use** - Production of SNG from coal, even of low ranking quality.

**Applications and ongoing Activities** - The experimental facility GESSYCA is being completed; it is a small, highly versatile and instrumented demonstration system for the setting-up of technologies and the development of innovative elements and cycles, including efficient tar and sulphur abatement systems.



Experimental facility GESSYCA



*Integrazione SNG in un'applicazione Power to Gas*  
 "IEA Energy Technology Perspectives 2014: Harnessing Electricity's Potential"

