

COAL HYDROGASIFICATION FROM RENEWABLES

Innovations and Benefits - The process allows to store renewable energy in the form of hydrogen and to use coal reserves in a sustainable way. Actually, the process has a reduced environmental impact since the synthetic natural gas (SNG) so produced is a mixture of a fossil fuel (coal) and renewable energy sources (wind, solar).

Uses - Production of synthetic natural gas (SNG) by coal hydrogasification using hydrogen preferably produced from renewables.

Past and Present Activities - A preliminary technical and economic analysis has demonstrated the applicability of the hydrogasification process to the coal field of Sulcis (Sardinia, Italy). A new study considering the European coal and renewable energy sources has demonstrated that the process can strengthen the European Union's energy security.

