BIO2C
Biorefinery and Bioenergy Centre

THE FUTURE IN CENER BIO2C:
GASIFICATION AS A KEY ENABLER OF DECARBONISATION

Gasification testing demo plant for feedstock validation and performance assessment: **bridging the gap between potential and commercial reality**

Nominal power: **2 MWt** (500 kg/h)
Operation pressure: **0,1 barg**
Temperature : **650-1000ºC**
Two operation modes:
- Air gasification
- Steam + O_2 gasification

Inertization: CO_2
Wide range of **biomasses and wastes**

Syngas cleaning system of 100 Nm³/h of syngas to removal of impurities and contaminants generated during gasification:
- Tars
- Particles
- Nitrogenous compounds (NH_3 and HCN)
- Sulfur compounds (H_2S and COS)
- Halides (HCl and HF)

www.bio2c.es

CENER | NATIONAL RENEWABLE ENERGY CENTRE

GOBIERNO DE ESPAÑA · VICEPRESIDENCIA TERCERA DEL GOBIERNO · MINISTERIO PARA LA TRANSICIÓN ECOLÓGICA Y EL RETO DEMOGRÁFICO · MINISTERIO DE CIENCIA E INNOVACIÓN

Ciemat

Gobierno de Navarra
Nafarroako Gobernua