



### Exclusive Site Visit: Tuesday 4th October

We are also pleased to announce a site visit to **ENCE's 50 MW biomass-fired facility in Huelva, as part of ACI's Biomass to Power Conference.**

The 50 MW biomass-fired facility in Huelva consumes over 400,000 tonnes of biomass a year to produce 180 tonnes per hour of steam at a pressure of 100 bar and a temperature of 500°C, providing thermal energy that will enable the turbine to produce more than 400,000 MWh.

The plant was built according to the Best Available Techniques as recommended by the EU for the transport, storage and production of energy from biomass. These techniques include the system of selective non-catalytic reduction, which is a method for reducing nitrogen oxide emissions. There is **no additional cost to attend**, but spaces are strictly limited and allocated on a **first come, first served basis**.



#### Site Visit Agenda:

- 13:15 – Depart conference hotel Hilton Garden Inn Sevilla
- 14:30 – Arrive to ENCE plant
- 14:45 – Welcome presentation by ENCE
- 15:30 – Guided tour of the facilities including technical explanations
- 16:30 – Refreshments
- 17:00 – Depart ENCE plant
- 18:15 – Arrive conference hotel Hilton Garden Inn Sevilla



Ence is the market leader in biomass-fuelled renewable energy. Ence is Spain's market leader in the production of renewable energy using forest biomass and energy crop. The company currently has an installed biomass generation capacity of 220 MW. Annual electricity production amounted to 1,600 GWh.

As a result of continuous efforts in R & D and the experience gained in the effective use of biomass, Ence has managed to develop 100% Spanish technology creating a situation where the group could lead a global project in the field of utilization of biomass for energy production.

Renewable energy from biomass has enormous growth potential in Spain, a country which has the EU's second largest wooded areas. In fact, it is the only renewable energy that has shown sound economic results on account of the benefits generated, given its capacity to create jobs, develop rural areas and contribute to improving the environment, both through the capture of CO<sub>2</sub> and the care and cleaning of the woodlands, reducing the risk of fires by up to 70%.

In addition, it is the only manageable and most stable renewable energy, not having to depend on variables such as sunlight, wind, or the availability of certain agricultural wastes. Biomass could be part of the progressive substitution of domestic coal, creating employment in the collieries affected due to the proximity of these coalfields to the forested areas that have the potential for biomass production.

Ence co-generates the electricity and heat required for its industrial operations and sells its surplus production to the national grid. To do this, Ence uses biomass from two main sources as its raw material:

- Wood bark (solid biomass) and forest residues.
- Black liquor, resulting from the wood cooking process, goes through a chemical recovery process and they are reused again in the cooking process.