

## BIOMASS FIRED BOILER FOR SOUTH NYIRSEG, HUNGARY

UNIS Power has supplied biomass fired boiler for a new steam power plant South Nyirseg located nearby Szakoly, Hungary. The project has been executed together with Hungarian company EGI Contracting Engineering Co. Ltd. who served as an EPC contractor.

The new investment of 20 MW<sub>e</sub> power plant represents important IPP developing project at eastern region of Hungary nearby Romanian border. The plant is supplying “green” power generated out of wood chips collected either from forest industry or local plantation of fast growing trees at the fields not efficiently usable for agriculture. Alternatively agriculture off-products such as sunflower seeds or similar can be utilized as well.

The boiler is of a bottom supported three pass design with air cooled vibrating grate installed upon independent foundations underneath of the boiler combustion chamber. Controlled secondary air distribution along the combustion chamber together with ammonia spray system secures low NO<sub>x</sub> firing while ESP installation controls dust particle emissions.

All the equipment has been supplied in full compliance with local standards and norms.



## Client

EGI Contracting Engineering Co. Ltd

## Year of Completion

2009

## Boiler data

- 80 t/h
- 93 bar(a)
- 515 °C
- air cooled vibrating grate

## UNIS Power scope of work

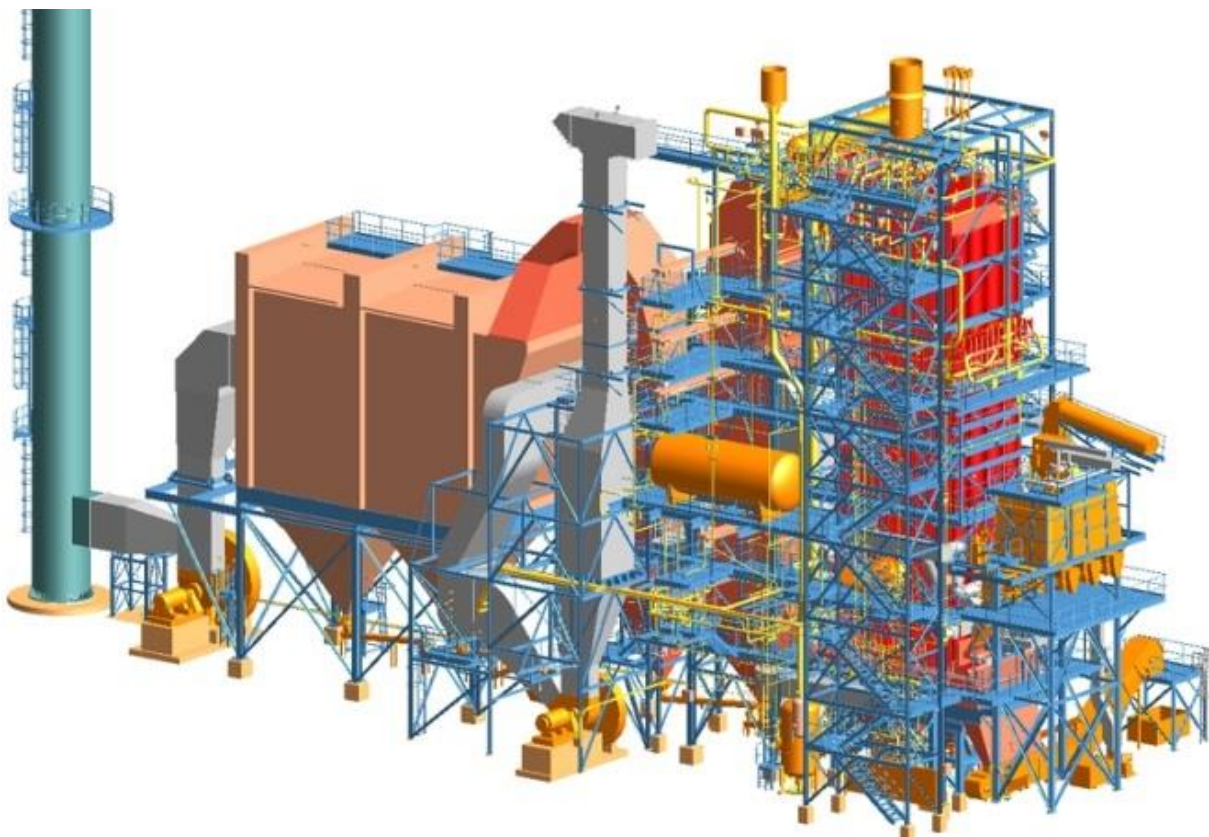
Design, manufacturing, site delivery, erection and commissioning of one biomass fired boiler island including internal fuel handling, flue gas cleaning, ash handling etc.

## Fuel

wood chips



Overall plant view



3D model biomass fired boiler