

POWER NEWS

Better technology for a cleaner world

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FW's Flexible Carbon Capture CFB Technology Takes a Step Toward Commercialization

FW together with ENDESA and Fundacion Ciudad del la Energia (CIUDEN) signed a grant agreement with the European Commission (EC) defining the terms of 180 M€ of EU funding under the EC's European Energy Program for Recovery (EERP) to support the technology development of a carbon capture and storage (CCS) technology development of a 300 MWe oxy-combustion power plant in Spain.

One of six European CCS projects selected for EERP funding, this project is unique in that it is the only one to utilize circulating fluidized bed (CFB) technology. The goal of the project is to demonstrate all aspects of a commercial scale supercritical CCS CFB power plant.

ENDESA's Compostilla's plant has been chosen as the location for this full-scale demonstration plant based on preliminary positive geological surveys of nearby saline aquifers for storing the plant's CO₂, and the ability to utilize the infrastructure at the existing coal-powered plant.

Our Finish and Spanish subsidiaries within its Global Power Group have teamed with ENDESA Generación, the largest Spanish utility, and CIUDEN to support the first phase of this Spanish CCS project, including the validation of the plant's design with a 10 MWe oxy-combustion CFB steam generator currently under construction at CIUDEN's integrated CCS Technology Development Plant (TDP) in Spain.

The plant will utilize our advanced Flexi-Burn™ CFB technology which can easily transition between conventional and carbon capture mode while utilizing a wide range of solid fuels.



ENDESA's Compostilla Plant

Solar Steam Generator Equipment for Spain

We have been awarded a contract to design, supply and provide site advisory services for two sets of solar steam generators as well as low and high pressure feedwater heaters. The contract was awarded by the project's EPC contractor, a joint venture of the Spanish companies SENER and COBRA.

The equipment will be integrated into Valle 1 and Valle 2 solar plants, located in San José del Valle (Cadiz, Spain) and owned by Torresol Energy, a company created by the Spanish SENER (60%) and Abu Dhabi-based company Masdar (40%) and will have an installed capacity of 50 MWe each.

The delivery is scheduled for the first quarter of 2011.



Senertrough Collector Loop

Customer Satisfaction in Korea

Our Power Group Asia (PGA) Company has been awarded a customer satisfaction plaque by the CEO of the Yeosu Cogeneration Corporation for our delivery of 3 x 100 MWe CFB units to Hanwha Chemical Facility in Yeosu Industrial Park in South Korea.

The appreciation Plaque was presented to PGA from Yeosu and states, "With our deep appreciation for your immeasurable contribution and high performance Boiler Packages to Yeosu Cogeneration Plant."

This achievement not only paves the way for successful, future projects in the Asia market, but also demonstrates our execution capability and commitment of excellence.

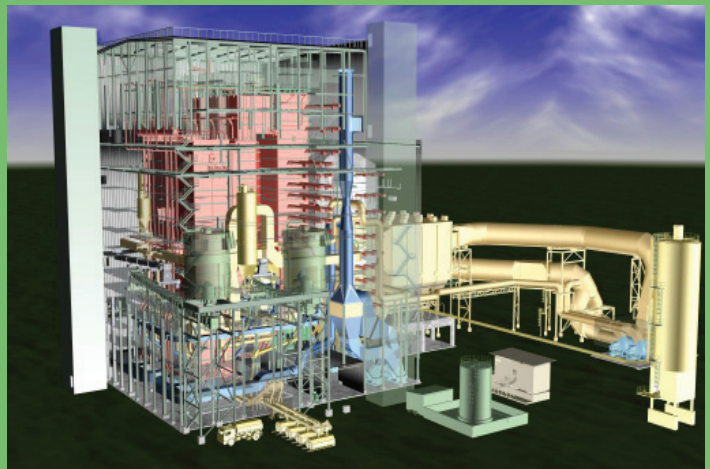


World's Largest 100% Biomass Boiler

We have been awarded a contract by GDF SUEZ, one of the leading energy providers in the world, for a 190 MWe 100% biomass-fired circulating fluidized-bed (CFB) boiler island for the Polaniec Power Station in Poland.

The project will be executed jointly by our subsidiaries in Finland and Poland to design and supply the steam generator, auxiliary equipment, biomass yard and will carry out civil works, erection and commissioning of the boiler island.

Once operational (expected 4Q 2012) this will be the world's largest biomass boiler burning wood residues and up to 20% agro biomass.



Polaniec Power Station

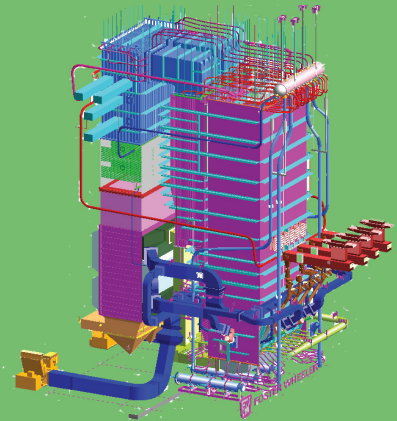
Three Circulating Fluidized-Bed Steam Generators for Sinopec Wuhan

We have been awarded a contract by the Sinopec Wuhan Company for three circulating fluidized-bed (CFB) steam generators for the Sinopec Wuhan Cogeneration Plant for the 800,000 ton/year Ethylene Project in central China's Wuhan city.

We will design and supply the three 80 MWe (gross megawatt electric) CFB steam generators and auxiliary equipment and provide site advisory services for the project. The CFB steam generators will be designed to burn coal and petcoke while meeting all environmental requirements.

Commercial operation of the new steam generators is scheduled for the second quarter of 2012.

Foster Wheeler has served the Chinese market for more than 20 years, providing Chinese clients with over 40 CFB steam generators, 26 of which were purchased by Sinopec. In addition to our successful CFB business in China, we have also sold over 20 pulverized coal (PC) units in China.



SINOPEC Wuhan

Start-up of Large Biomass CFB in Finland

Our 125 MWe circulating fluidized-bed (CFB) boiler island delivered to Kaukaan Voima Oy in Finland has successfully started commercial operation. Kaukaan Voima Oy is owned by Pohjolan Voima Oy (PVO) and Lappeenranta Energia Oy. The new biomass unit fires a combination of biomass and peat and has the capability to fully fire either fuel to supply process steam and electricity to the adjacent UPM-Kymmene corporation's pulp and paper mill, as well as supplying electricity and district heat to the city of Lappeenranta.

The power plant is fueled by bark, branches, tops, stumps, small wood and peat and is reported to be Finland's largest user of solid biomass, i.e. wood which cannot be used as raw material for higher-grade processes.



Kaukaan Voima Oy

Renewable Diesel Demo Plant Begins Operation in Finland

A renewable diesel demonstration plant owned and operated by NSE Biofuels Oy of Finland has successfully started operation.

We provided the fuel-flexible circulating fluidized-bed gasifier, gas-cooling and cleaning system, which converts a wide spectrum of biomass into a clean syngas to be used in a gas-to-liquid (Fischer-Tropsch) synthesis process to produce feedstock for renewable diesel. NSE Biofuels Oy Ltd. is a joint venture of Stora Enso Oy and Neste Oil Corporation.

The next step is a full-range test program to be carried out in cooperation with NSE Biofuels Oy Ltd., Foster Wheeler and the VTT Research Centre of Finland. The test program's aim will be to gather operational experience and data to verify the design of a commercial scale plant.



NSE Biofuels Oy Ltd.



We offer a full range of steam generator equipment, aftermarket products and services to the power, industrial, and waste-to-energy sectors. Our global manufacturing and engineering network can deliver cutting-edge products and expertise, quickly and cost competitively with best-in-class quality. Established in 1891, our experience comes from over a century of designing, servicing, and continually improving steam generating equipment.

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