

A-Powersystems

High Performance. High Commitment.

POWER PARTNERS NETWORK[®]

- Project Management
- Industrial Engineering
- Plant and Boiler Engineering
- Energy Consulting
- Energy Studies

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Laem Chabang CCGT Power Plant 320MWth/110 MWe, Thailand

Plant engineering, procurement and erection management for

Fortum Engineering Ltd

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CHP Power Plant Services

- Project Management
- Supervising
- Conceptual design
- Basic Engineering
- Specifications
- Procurement
- Feasibility Studies
- Detail Engineering Services

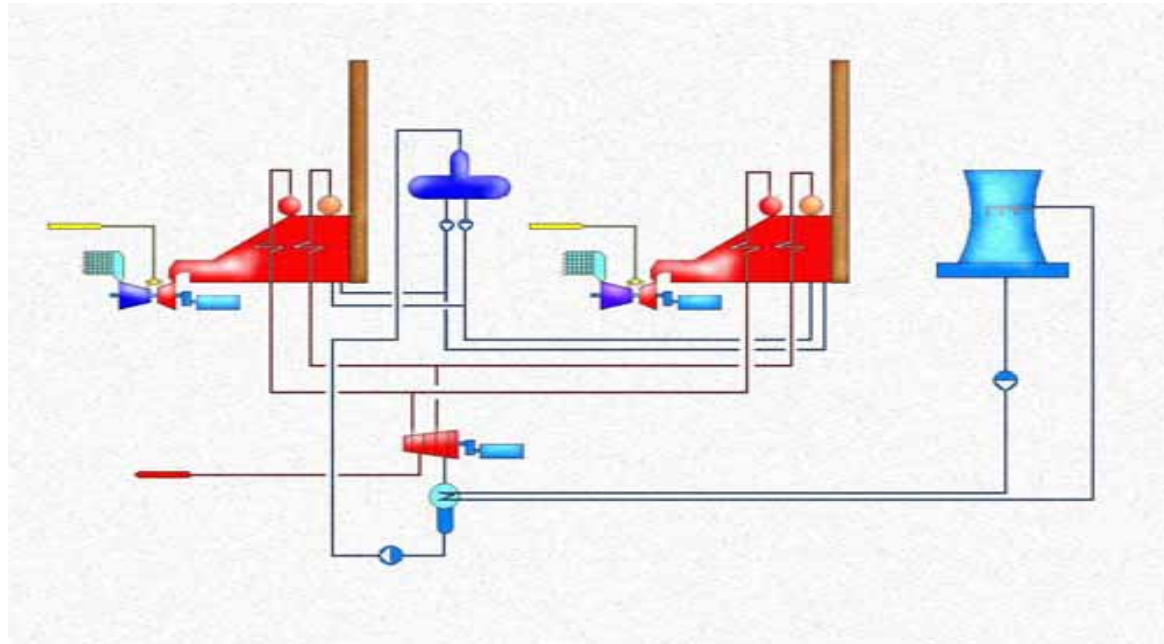


Foto: SSE Ferrybridge, Retrofit project, 300 MW for wood powder firing
TPS Termiska Processer AB

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CCGT Plants

Gas Turbine Plants / Combined Cycle Plant Services



- Project Management
- Supervising
- Conceptual design
- Basic Engineering
- Specifications
- Procurement
- Feasibility Studies
- Detail Engineering Services



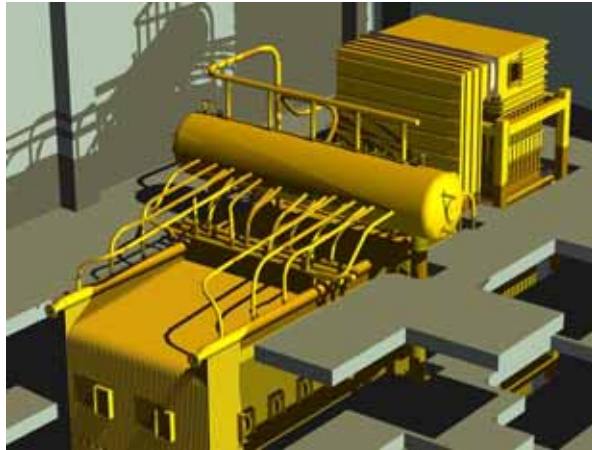
PT Cikarang Listrindo Frame 9 E CCGT plant 2008



Laem Changang Flame 6 CCGT Plant 1999- 2000

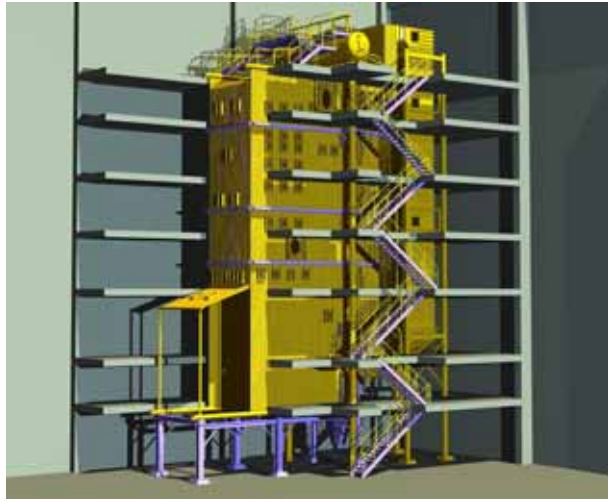
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Boiler Plants



Services:

- Feasibility Studies
- Conceptual Design
- Basic Engineering
- Specifications
- Procurement
- Supervising
- Project Management
- Detail Engineering Services



Wermland Paper AB, 25 MWth steam boiler



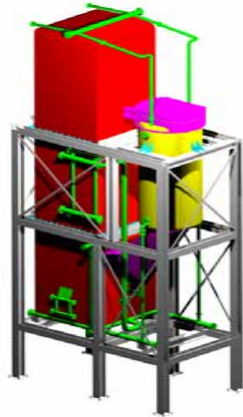
Lapinlahti Ekolämpö 2007, 3,5 MWth waste fired grate boiler

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BFB Plants



Kils Energi AB BFB 8,0 MWth
2002-2003



Rebuild of 17.5 MWth/4.3 MWe rice husk power plant in Chai Nat,
Thailand 2000. Fortum Engineering Ltd.

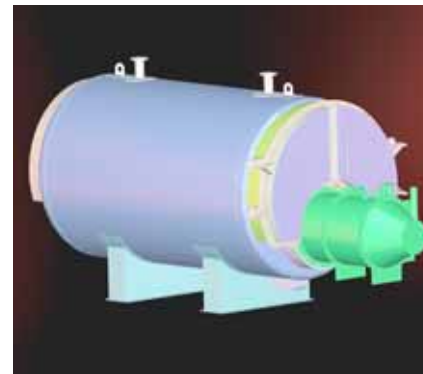
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Pellet and Wood Powder Combustion

- Efficient retrofit
- High volumetric furnace power load
- Low CO and NO_x emissions
- Wide control range 5:1 - - >10:1
- Crushing pellets less energy consuming
- Insensitive to particle size



Umeå Energi AB 25 MWth



Fire Tube boiler application 3,5 MWth

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Gas and oil fired boilers

up to 60 MW



KPA Unicon, St.Petersburg 3 x 60 MW_{th}



Helsinki Energia, 5 x 47 MW



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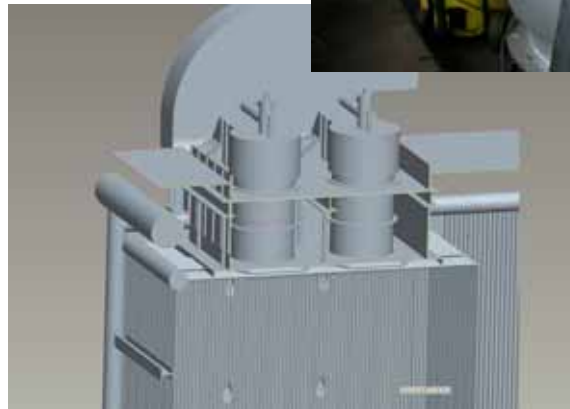
Retrofit Projects



Ferrubridge Powr Station
Retrofit from cod firing to wood
powder, 300 MW th



Söderenergi Fittja 150 MW
- Boiler and burner retrofit



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