



ANSALDO
CALDAIE S.p.A.

UTILITY BOILERS

ABOUT US

With more than 1000 units accounting for about 80 GWe installed worldwide, Ansaldo Caldaie is in leading position in design, manufacturing and supply of Utility Boilers.

The Company has also extensive experience with Heat Recovery Steam Generators and has installed over 100 units in Italy and abroad.

Ansaldo Caldaie has its own proprietary technology for utility boilers, as well as for vertical and horizontal HRSGs, and is a Siemens licensee for the Benson Once-Through design.

PRODUCTS AND SERVICES

Utility boilers, sub-critical and supercritical, coal, oil and gas fired

HRSGs operating downstream large gas turbines up to the maximum ratings

Biomass and Waste to Energy Boilers

In-furnace NOx emission reduction solutions (low NOx coal/gas/oil burners, OFA, Reburning injectors, Flue Gas Recirculation systems)

Rehabilitations, Fuel conversions, Retrofits of existing Steam Generators



Manufacturing facilities
Gioia del Colle, Bari (Italy)

MANUFACTURING

Own manufacturing facilities located in Gioia del Colle (BA) – Italy

Overall area 300,000 sq. mt.,
72,000 of which covered



Coils Bending Line



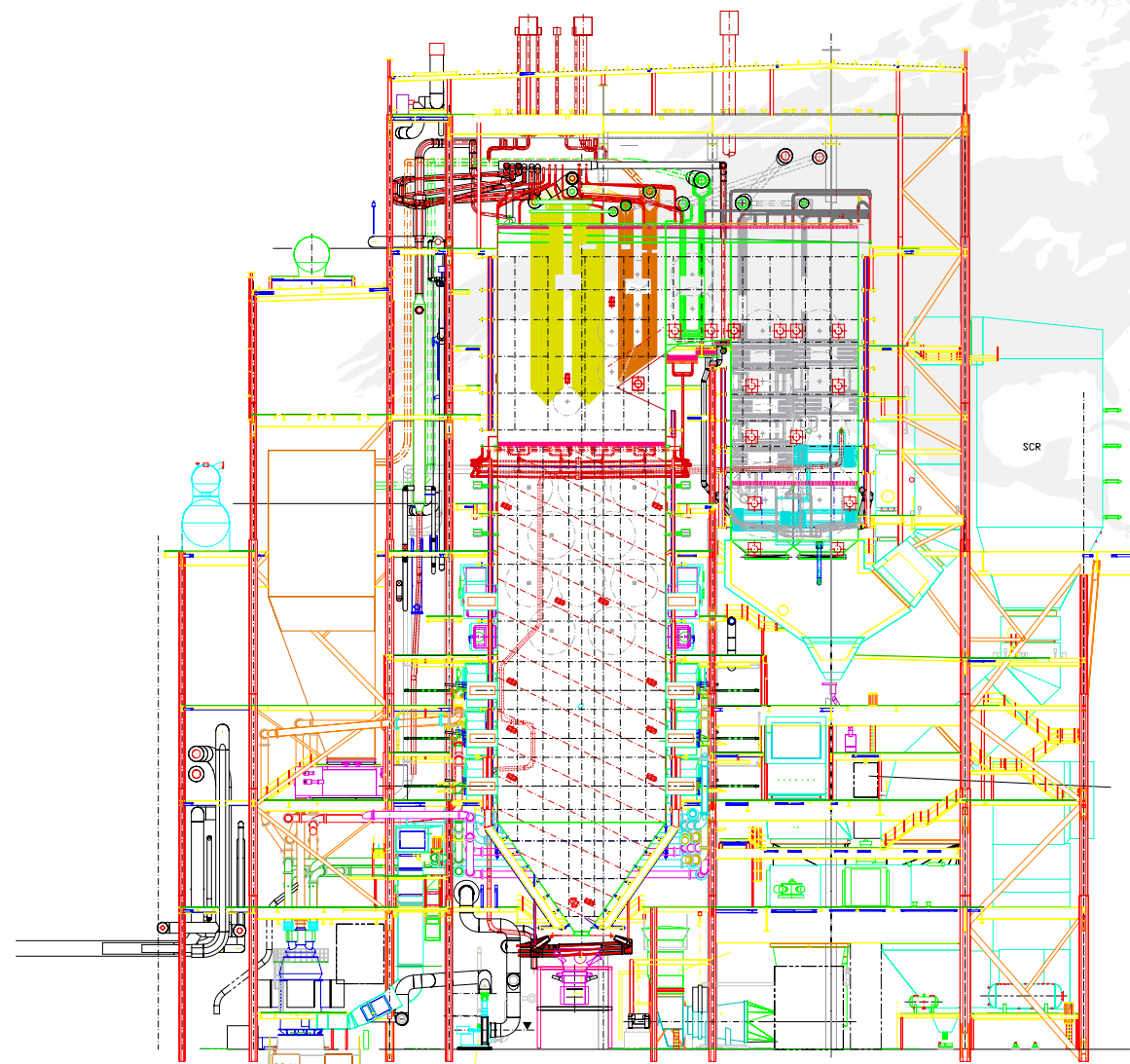
Coils Assembling Line



Boiler Drum being shipped from Gioia del Colle Factory

ULTRA-SUPERCRITICAL AND SUPERCRITICAL BOILERS

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Torrevaldaliga North (Italy)

**TORREVALDALIGA NORTH P.P.
(ITALY)**

3x660 MW
Ultrasupercritical, coal fired boilers

SH Flow: 1,918 t/h

SHO pressure: 252 bar

SH/RH outlet temperature:
604/612 °C

SUBCRITICAL BOILERS

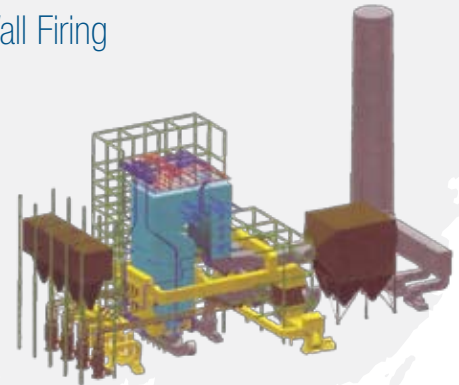
ULTRA-SUPERCRITICAL AND SUPERCRITICAL DESIGN

- Once-Through Benson
- Two-Pass arrangement
- Pressure above 250 bar
- SH and RH outlet temperature above 600° C for Ultrasupercritical design
- Coal Firing and/or Oil & Gas Firing
- Opposed Wall Firing – Low NOx type
- Divided Back Pass for RH Control for Coal Firing
- Gas recycling for Oil & Gas Firing

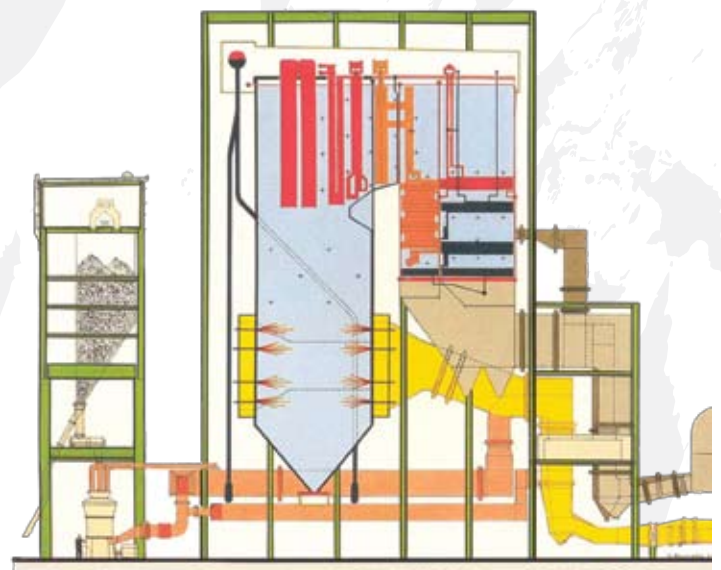
Ansaldo Caldaie has supplied Once-Through Supercritical Boilers since 1962 and has been a Benson licensee since 1995.

TWO PASS DESIGN FOR COAL FIRING

- Drum type
- Natural circulation
- High sub-critical pressure up to 180 bar
- Coal Opposed Wall Firing



Mejillones Power Plant (Chile)
1x528 t/h coal fired boiler



Brindisi Sud (Italy)

BRINDISI SUD P.P.
(Italy)

4x660 MW
coal/oil/gas fired boilers
Supercritical Once-Through

FARAKKA P.P.
(India)

2x1,675 t/h
coal fired boilers



Farakka (India)

RAMAGUNDAM P.P.
(India)

3x690 t/h
coal fired boilers



Ramagundam (India)

NEYVELI P.P.
(India)

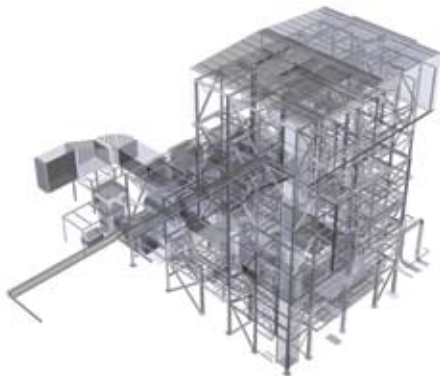
2x690 t/h
lignite fired boilers



Neyveli (India)

BOX DESIGN FOR OIL & GAS FIRING

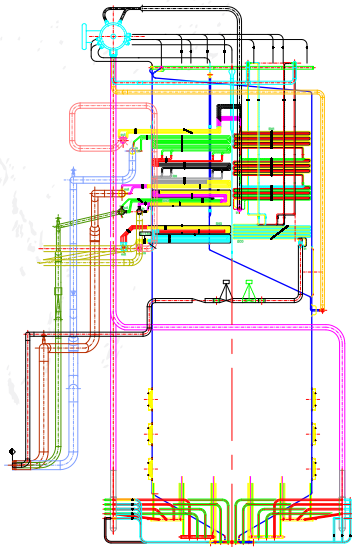
- Drum type
- Natural circulation
- High sub-critical pressure up to 180 bar
- Oil & Gas Opposed Wall Firing – Low NOx type
- Gas recycling for RH Control



El Tebbin Power Plant (Egypt)
2x1,095 t/h gas/oil fired boilers

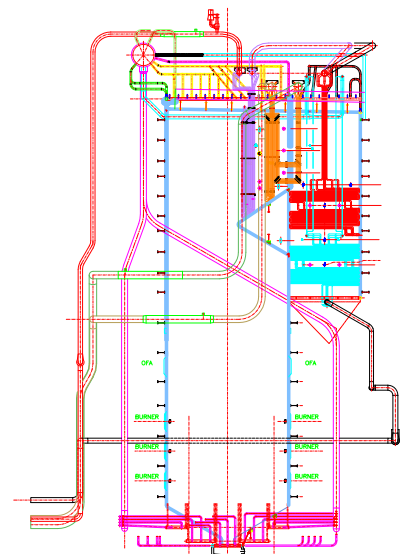


Abu Qir Power Plant (Egypt)
2x2,058 t/h gas/oil fired boilers

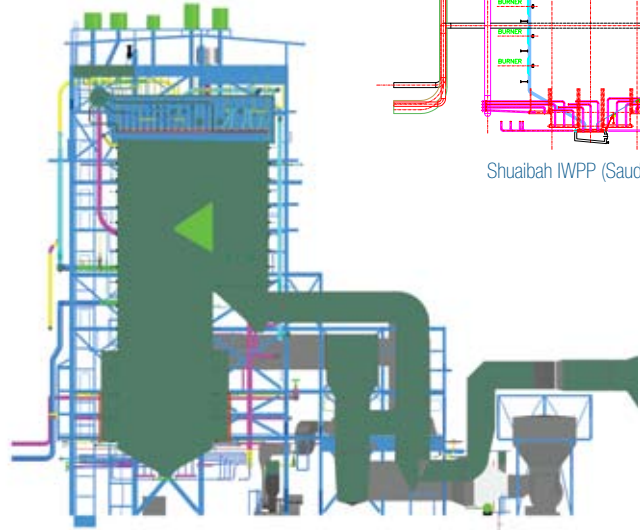


TWO PASS DESIGN FOR OIL & GAS FIRING

- Drum type
- Natural circulation
- High sub-critical pressure up to 180 bar
- Oil & Gas Opposed Wall Firing – Low NOx type
- Gas recycling for RH Control



Shuaibah IWPP (Saudi Arabia)



EL TEBBIN P.P.
(Egypt)

2x1,095 t/h
gas/oil fired boilers

YANBU P.P.
(Saudi Arabia)

1x422 t/h
gas/oil fired boilers

SHUAIBAH IWPP
(Saudi Arabia)

3x2,018 t/h
crude oil fired boilers



El Tebbin (Egypt)

Yanbu (Saudi Arabia)

Shuaibah (Saudi Arabia)



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