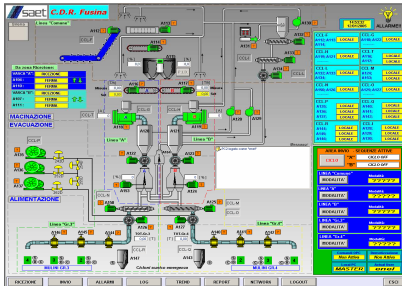


**COFIRING OF RDF AND COAL:
TRANSPORT TREATMENT MILLING AND FEEDING OF RDF
IN ENEL-FUSINA POWER PLANT, VENICE, Italy**



SCADA Screen of the total plant



RDF Receiving Area



Weight Belt Feeder for RDF

RDF (i.e. RDF Refused Derived Fuel) is available on the market in pellet format because of transport costs, and therefore is not directly suitable for a coal pulverized cofiring in a Power Plant. The use of RDF in pellet with its own treatment plant, has been successfully implemented in Enel Coal Thermoelectric Power Plant of Fusina (VE), for groups 3 and 4.

RDF application requires a RDF System for the Storage, the Transport, the Feeding of RDF: this System can be integrated in the Power Plant with:

- Receiving Area with Hopper Bay;
- Belt Feeder Dosing System;
- Pneumatic Transport to the Boiler;
- Mill for size reduction;
- De-dusting System.
- Operation & Control room.

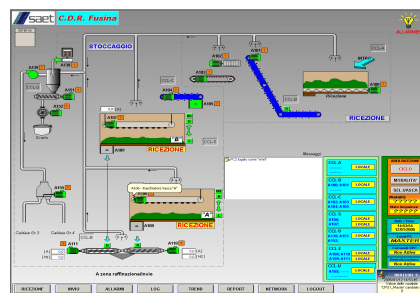


RDF Receiving Area

The use of RDF in pellet in a coal pulverized Boiler, requires a size reduction from the spherical shape $\Phi 25$ mm into 11 mm grid of a special Blade Mill. Two Mills get available the operation alternative or in parallel up to 6,25+6,25 t/h. An accurate cleaning is performed before milling in order to take out magnetic and stranger materials, and RDF is conveyed into the Weight Belt Feeder which is the regulating device of the Plant. After the mill, the Pneumatic Transport routes RDF (about 300m length) directly over the coal burning nozzles in the Boiler. The De-dusting System with Sleeves Filter, keeps a slight negative pressure inside the building to prevent powder and smell. The Plant - supplied in 2005- is in successful operation up to 3500 t/month of RDF.



RDF Mill



SCADA Screen of the Reception Area



Centrifugal Dust Separators



Sleeves Filter