



combined heat and power  
(chp or co-generation)



# CASE STUDY

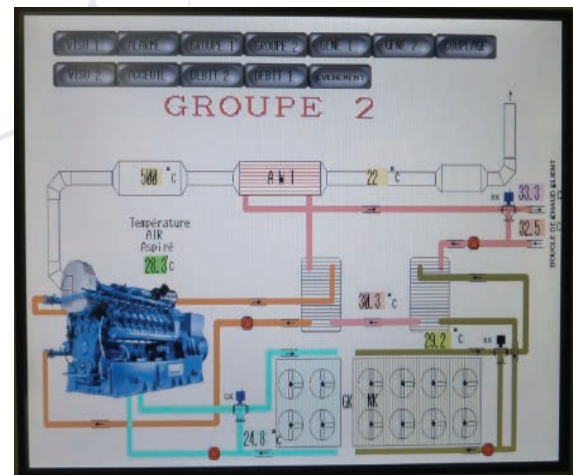
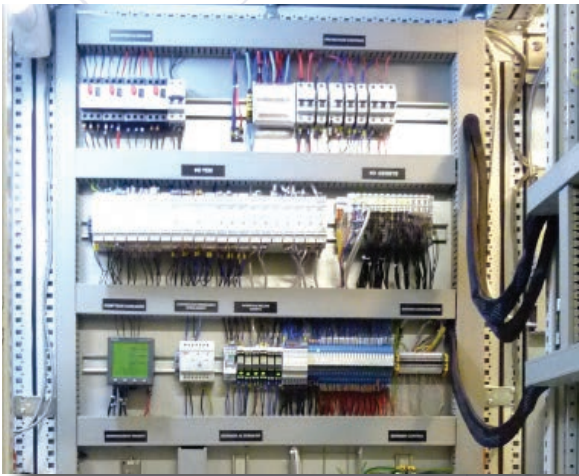
PARIS - FRANCE

CHP plants require high flexibility and a high level of performance from the controllers.

Constraints in terms of temperature control and electrical power required to operate differently from conventional power plants with more features and more adapted solutions.

Product Installed:

- o Two GENSYS 2.0 with mains paralleling option,
- o Digital & analog CANopen input/output extensions,
- o CPA mains power transducer
- o Remote tactical screen
- o PM-A (Power Metering)
- o Modbus interface



# POWER PLANT

The plant is composed of two 1500kVA gas generators running on parallel with mains.

Both generators are driven by GENSYS 2.0 using «external start sequence» option and remote inputs/outputs extensions to be adapted to the existing engine controllers.

CRE Technology has been able to meet the technical specifications required in terms of gas engine control thanks to its highly integrated solutions and their ability to include specific sequences.

- GENSYS 2.0 units manage :
  - o Synchronization via contact outputs.
  - o Requested active power and actual power set point sent to the engine controller module.
  - o The temperature set points and associated auxiliaries.
  - o Information from the grid power.
  - o Power factor.
  - o Electrical protections and paralleling protections.

