



# MEGA POWER PLANT APPLICATION

with GENSYS 2.0 & MASTER 2.0 modules

SAUDI ARABIA

When industrial site like extraction mines or islands are far away from utility network, the only available power on site remains the genset, installed in power plant in parallel for redundancy reason due to the maintenance of the machine and modularity.

This case study highlights a multi genset application for an industry located in the middle of the desert, all the genset are equipped with **GENSYS 2.0** and power plants are synchronize between them with **MASTER 2.0**.

The site where 152 units of 1250KVA gensets are installed is split in several automatic power plants of 5 to 32 gensets in parallel each.

All power plants are independent and can offer the possibility of increasing available power by synchronizing with another thanks to the **MASTER 2.0**.

### Features highlighted for this project

- Up to 32 generators synchronized and parallel together for active/reactive load
- Static paralleling for black start fast recovery.
- Optimized load dependant start stop with running hours balancing management.
- Automatic backup supply of a defective power plant by another available power plant.
- 2 power plant synchronization with **MASTER 2.0** additional panel
- Centralized alarm/fault display on each **GENSYS 2.0** for an easy diagnosis.

### CRE TECHNOLOGY devices installed:

- GENSYS2.0
- MASTER2.0
- BPRB1024M battery chargers

## APPLICATION



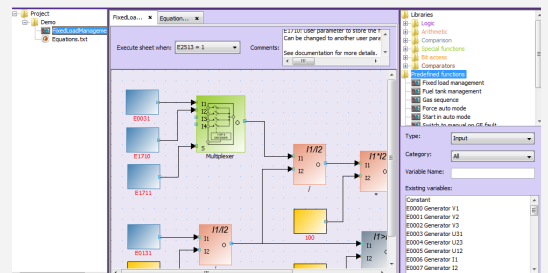
## PROGRAMMING

### EASY PLC

#### Program and customize your internal logical sequences

CRE TECHNOLOGY's Easy PLC is a logic editor which provides graphical interface to create PLC instructions for GENSYS2.0.

Easy PLC simplifies the process of proprietary writing instructions thanks to a user-friendly graphic environment. That includes many sheets in which the user create instructions through «operators».





EXPERT IN GENERATOR SOLUTION

**CRE TECHNOLOGY**

130 allée Charles-Victor Naudin - Les templiers - Sophia Antipolis

06410 BIOT / FRANCE

Tél: +33 (0) 492 38 86 82

Fax: +33 (0) 492 38 86 83

[info@cretechnology.com](mailto:info@cretechnology.com)

MEGA POWER PLANT APPLICATION\_EN\_A2018

