



Data storage buildings and net centers are growing in the world of telecommunications. Storage and protection of such data raise the problem for high reliability and quality of power supply and requires particularly safe solutions.

To meet this demand CRE TECHNOLOGY has developed a combination of specific solutions, thanks to the flexibility of its high quality products and engineering application services. The case presented here is an example of what is the most reliable in terms of power control redundancy. The application is intended to a series of Net centres belonging to one of the giants of military and private telecommunications.

The plant consists of two 2000kVA generators running in parallel with control redundancy and manual backup operation.

Each group is equipped with 2 **GENSYS 2.0** modules for redundancy:

- A first principal GENSYS 2.0 module with watchdog option
- A redundant GENSYS 2.0 module
- An additional backup system is also fitted to the cabinets for manual operation.

This application provides a guarantee of continued operation of generators even in case of complete loss of the principal control module. Control is automatically switched on-the-fly from the principal to the redundant module,

instantly and without any break or impact on the power plant, regardless of the operating status of the generators. Control can later be switched back to the principal **GENSYS 2.0** module, either automatically or after the intervention of an agent on site. This gain without any cut in the power supply.

The CRE TECHNOLOGY solution also provides the possibility of coupling an external rental power plant of 1, 2 or 3 backup generators via the use of a **MASTER 2.0** module. The flexibility of the system prevents any compatibility problem and offers a quick connection capacity.

## APPLICATION



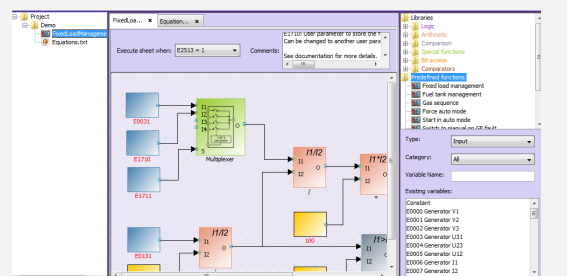
## PROGRAMMING

### 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».



## DETAILS OF THE APPLICATION

The **MASTER 2.0** allows paralleling between the site power plant and the rental power plant, either by sharing load equally or by using peak shaving operation.

CRE TECHNOLOGY also offered its application engineering services together with the systems in order to provide a comprehensive development and an adapted training to its customer all along that project.

### PRODUCTS INSTALLED

- 4 GENSYS 2.0 in redundancy (2 principal units and 2 redundant units),
- 1 MASTER 2.0 for rental power plant connection and paralleling to the redundant power plant,
- 2 SCR Synch Check Relays for manual backup mode,
- 2 PM-P power meters for manual backup operations.

