

APR Energy, Trujillo, Peru

From 0 to 60 MW in 60 seconds

We just pressed the start button, and in less than a minute 40 gensets were online...

After DEIF had developed a comprehensive plant management system capable of handling up to 256 gensets, the company was invited to collaborate with APR Energy on commissioning a 40 1.7 MW MTU generator power plant in distant Trujillo, Peru. The plant supplies grid support to the mainly hydropower-based region during dry seasons.

DEIF used AGC Plant Management controllers, capitalising on the units' adaptability allowing operators to switch from base load to island mode and from power control to frequency control to name just a few functionalities that make AGC the comprehensive choice.

APR Energy's Director of Engineering, Edmund Campion, has worked with DEIF since 2002, but he was still impressed that not a single fault occurred during commissioning.

"We just pressed the start button and in less than a minute 40 gensets were online," he says. "What this means, is that APR Energy is now able to set up plants at a considerably faster rate than before."

Mr Campion believes that the plant in Peru represents his idea of how a plant should function and how to control it in real time.

Typical of the collaborative way DEIF works, the AGC Plant Management Control system is the result of DEIF and APR Energy's joint efforts to develop the optimum solution for this job.

Prior to commissioning the system, DEIF's engineers meticulously programmed and tested its control functionalities. Parts of these tests were carried out on-site. Having completed the tests, the engineers made absolutely sure that the plant would be able to start up and deliver the required 60 MW without any problems.

Edmund Campion praises the DEIF on-site support. "Right from the beginning, DEIF's engineers listened and worked with us to develop the flexible solutions we wanted. There is no doubt that DEIF has delivered on our expectations," Mr Campion says, giving DEIF 10 out of 10 for the process. "Cannot fault it."



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Data

- ✓ 60 MW power plant from APR Energy
- ✓ 40 1.7 MW MTU generators
- ✓ Operators can switch from base load to island mode
- ✓ Operators can switch from power control to frequency control
- ✓ 40 gensets online in less than a minute
- ✓ DEIF's plant management system handles up to 256 genset

Product



Automatic Genset Controller,
AGC Plant Management

Diagram From Case

