

MULTI-SITE COORDINATION, EFFECTIVE PROJECT MANAGEMENT

STANDBY DIESEL GENERATOR ADDITIONS, 2017

Gedawin Novo Controls designs, manufactures and markets control and protection systems for the small hydroelectric generation industry. While our core business is providing effective control systems and electrical equipment, our company can also offer solutions and services related to other aspects of the generating station. Our team will work with you to develop an appropriate solution and manage the overall project. We are “more than controls”.

THE CHALLENGE

The client came to Gedawin Novo Controls with a request to take on a project to install standby diesel gensets at three sites. One major challenge was that they wanted all the site work to occur concurrently or in very close sequential order to minimize the time and cost involved with the work. The client called upon Gedawin to supply equipment and execute the entire project as our company has proven our effective project management capabilities.



These pictures show the original standby diesels at two sites. The third site did not have standby power. Both units are undersized based on the current power needs at the plants. These units were replaced and the unit seen at left was overhauled and relocated to the third site.

THE PLAN

Gedawin Novo Controls reviewed the conditions at each site and developed a plan based on the client's needs. The client supplied two new 125 kW standby diesels to replace the units shown on the previous page. The newer of the existing gensets, a 50 kW unit, was removed from site, overhauled and installed at a the third site. The original gensets were left in service until the new ones were commissioned and put in service with a same-day cutover.

Gedawin was responsible for:

- Preparing the concrete pads for the gensets.
- Installing automatic transfer switches and the power and signal cable for the gensets.
- Coordinating the shipment of all gensets to the sites and the facility for the overhaul.
- Overhauling and updating the 50 kW genset to meet current TSSA standards.
- Commissioning the ATS systems and gensets.
- Interfacing with the existing SCADA system for remote monitoring of the gensets.
- Acting as the general contractor and project manager of suppliers and sub-trades.



Concrete Pad Forming



Crane unloading and placing 125 kW genset



**200 Amp auto-transfer switch
commissioned**



50 kW unit transported to shop for overhaul



**Oil burner technician overseeing
fuel delivery**



125 kW genset with 1200-gallon fuel tank



50 kW genset with new external fuel tank after commissioning

THE RESULT

The project manager at Gedawin carefully monitored the implementation of the plan and was able to complete the project on time and under budget. The team was able to take advantage of the fluid nature of the work and find opportunities to complete some tasks ahead of schedule or concurrently with others. The client expressed appreciation for the savings in both cost and time.

Contact Gedawin Novo Controls to see how our innovative control solutions can improve and enhance your operations.

BIG POWER FOR SMALL HYDRO

Gedawin Novo Controls technology for small hydroelectric generation is currently installed on over 195 units across the globe in North and South America, Europe and Asia.