Case Study

One Good DECS Deserves Another

Throughout Taiwan's history, many government-owned power plants were built to supply power for the main island of Taiwan and its outlying islands. Basler excitation systems and protective relays are widely used in these plants.

The Challenge

At a power plant on one of Taiwan's outlying islands, four excitation systems, each based on Basler's DECS-15 Digital Excitation Control System, had provided reliable service for 18 years. Although each system continued to function and had many years of life remaining, the plant decided to modernize their systems to reap the benefits of today's technology. To preserve the reliability and longevity they experienced with the DECS-15, another Basler controller was selected: the DECS-250 Digital Excitation Control System. The DECS-250 offers a faster response, more automation, and advanced functions. For example, the DECS-250 provides integrated real-time analysis, oscillography, trending, and sequence-of-events recording functions which eliminate the need for expensive testing equipment.

Our Solution

While Basler excitation systems have proven to have a long lifespan, this account illustrates the advantages of upgrading to a modern control system with better performance and increased capabilities.

Figure 1 - Power plant in Taiwan

Figure 2 - DECS-250