



## Successful Migration to Series 5M Controller Updates System with Minimal Downtime in Russia

### SITUATION

Gazprom used hundreds of Series 4 control systems for pipeline stations in Russia. The Series 4 product was being phased out with a new generation of multi-functional Series 5 controllers, which were being offered as a low-risk, low-cost replacement with minimal downtime to upgrade. Gazprom had to choose whether to update their existing controllers with new CCC technology, or use another control system provider to replace the entire system.

### SOLUTION

After learning that replacing their current Series 4 systems with a competitor's product would be labor intensive, result in several weeks of downtime, and require lengthy system checks, Gazprom decided to replace with the Series 5M product. Series 5M was designed to replace only the electronic control modules, leaving the chassis, field wiring, and field termination assemblies unchanged. Series 5M incorporates the ability to communicate with Series 4 controllers, offering clients the option to upgrade a multi-chassis system in stages over the course of months or years.

As a beta site test, Gazprom chose to replace one of eight Series 4 systems on the Yagelnaya pipeline station with the Series 5M system, eliminating obsolescence and increasing user-defined functions.

### RESULT

In less than two days, the new Series 5M controller was efficiently running the gas turbines and effectively communicating with the other Series 4 platforms, maintaining seamless load-sharing between the machines.

A few of the benefits of the migration included:

- Minimal downtime
- Same chassis and cabinet
- Improved system reliability
- Better maintenance and diagnostics for rapid fault detection

The success of Yagelnaya proved the upgrade concept and opened the door for global Series 4 replacement in Gazprom.

*Quick and painless control system upgrades provide many more years of successful, seamless operation.*