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As a result of its ongoing expansion and site improvements, the Banatski Dvor operation will increase its injection capacity from 1 million m³/day to 7 million m³/day. Long-range plans call for a production capacity increase from 1-5 million m³/day to 10 million m³/day. This project will benefit Serbia Gas, and its customers, by reducing excess electrical power consumption during the winter, and lowering gas costs during the summer. To keep pace with its developing natural gas infrastructure, Serbia Gas undertook construction of an expanded underground gas storage facility. Located in Banatski Dvor in northern Serbia, the facility is used for gas injection, extraction and production. Gas is injected into a bearing enclosure with compressors, and production includes exploitation of gas from stalled wells. The Banatski Dvor project involved integrating existing compressor controls and other legacy equipment as part of a unified, plantwide automation architecture. The plant required intrinsically safe (I.S.) technologies with high availability and redundancy as part of the new process control framework. The system needed to support Emergency Shutdown (ESD) and custody transfer systems, as well as integrate ladder logic functions. The system for gas treatment consists of: wellhead controls and supervision; pipeline gathering and auxiliary equipment; separation vessels; utilities, transformer substation, and compressor cooler; ESD controls; gas custody transfer subsystem; and compressor controls.