

Modernisation of a drinking water pumping station



Thanks to Introl Automatyka's good, long-standing cooperation with Rockwell Automation, we were able to overcome the difficult situation of parts and equipment availability on the market and realize the complete project from order to commissioning in less than 4 months. The scope of the investment included support at the system design stage for the pump drive, delivery including commissioning of a 740kW, 6kV PowerFlex 7000 medium voltage variable frequency drive from Rockwell Automation. This project utilized an existing 30+ year old ring motor. This was made possible by modifying the motor design to short-circuit the rings. Modernization of the pumping system made it possible to achieve smooth regulation of water flow, and to significantly reduce electricity consumption.

Scope of work performed:

- Technical support at the design stage for the implementation of the frequency converter (in current inverter topology)
- Delivery of the PowerFlex 7000 93A, 6kV medium voltage inverter from Rockwell Automation
- Post-assembly checks and measurements
- Commissioning of the drive system by certified Introl Automatyka engineers (without the manufacturer's involvement)
- Participation in commissioning and optimization of pumping system operation