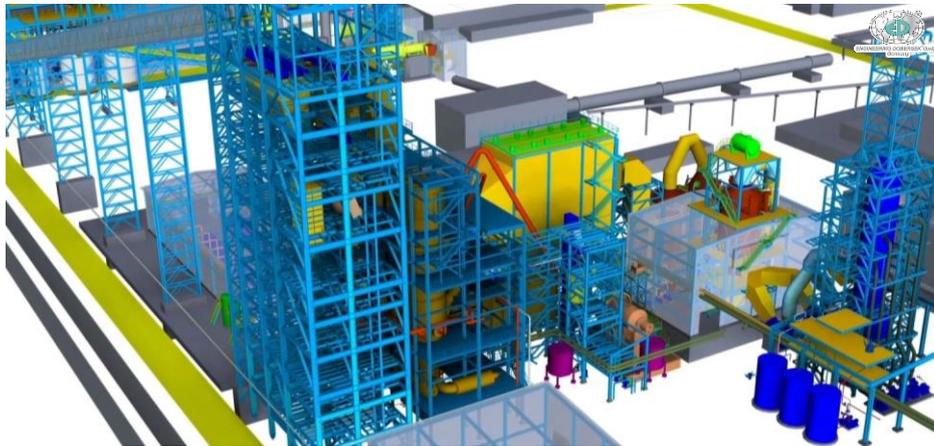


DUMAG KNOW-HOW FOR WORLD-WIDE UNIQUE PURIFICATION PROCESS



The project is characterised by the stark contrast between the plain, barren landscape of the Uzbek desert and the imposing industrial complex located at its border.

The reason for the use of this new procedure – referred to as "oxidation roasting" – that is based on fluidised bed technique is ore mining in this region, and the highly diverse composition of the various ores. Compared to the conventional treatment processes used to date, this process achieved a significantly higher yield in preliminary tests, which justifies the added technological effort.

The general planner and process developer, a consortium including the Republic of Uzbekistan and German plant manufacturers Engineering Dobersek, commissioned DUMAG with the supply of five complete burner systems, the indirect ignition device for the fluidised bed and the associated engineering for the combustion chamber modules. Plus the dedicated module burner management system (BMS) that has been developed in-house to ensure safe operation of the entire firing technology.

As a long-standing partner of Siemens, DUMAG uses the tried and tested hardware components of the S7-400 series together with software modules developed by DUMAG that have been approved by an independent, accredited testing facility. The main benefit of the standardised, modular program set-up is that it provides a control system even for complex tasks in a relatively short time that meets the exacting demands in terms of reliability and safety.



One of the requirements of this project was the need to operate several firing systems simultaneously and with the utmost control precision. This was only possible with the dynamic control using the feed forward controller implemented by DUMAG. The program generates a prediction about future operating states from a wealth of signals and interacts before the feedback signals make adjustment of the parameters necessary.

"Despite the fact that we are located here in one of the most remote regions on Earth, my colleagues in the office have perfect access to the control software via the remote connection. This makes minor adaptations possible without delay to meet the demanding time schedule for starting up the entire plant", says Michael Bouchal, DUMAG commissioning expert, explaining the benefits of the DUMAG BMS in use under demanding conditions.



The highly qualified DUMAG engineers supported the general contractor and operator in the critical phases of installation and commissioning of the plant. When the services offered by DUMAG are used, the special features of integrated remote access also provide the widest possible protection from interruptions of production operations.

Learn more about the features and benefits of the DUMAG [Burner Management System](#).

We will be happy to provide pro-active support for your future plans and look forward to discussing your project with you in person.

Best regards,

Robert Schröger

CEO