

CASE STUDY

SHANXI SHANYIN BEIZU COAL INDUSTRY CO., LTD., BEIZU: AN INTELLIGENT TRANSFORMATION

A Datwyler data centre is helping the coal mining company in Shanxi Province improve its safety and efficiency.

The company Beizu Coal Industry launched a smart coal mining project several years ago. This is one of the key projects in Shanxi Province to promote the modernisation of coal mines, improve the efficiency and safety of coal production, optimise processes and thus create a smart mine that can serve as a model for the entire industry.

The information and automation systems directly related to production safety have been in operation for some time. These include safety and production monitoring, emergency communications and other systems that contribute to stable and orderly operations.

However, with rapid technological development, Beizu Coal Industry's need for intelligent, information-based infrastructures and applications has also increased. The existing communication systems, computer rooms and other facilities no longer met current requirements.

It was therefore necessary to build a dispatch centre, install a new integrated communications system comprising 4G, Wi-Fi 6 and ultra-wideband (UWB) and build a high-performance data centre that features a hyper-fusion



platform and an intelligent, comprehensive control platform.

The new data centre

The Beizu Coal Industry project team opted for a smart modular data centre from Datwyler, an enclosed multi-module solution that Datwyler markets in China under the name DatSentinel DC 3000. This stable, reliable solution not only meets the IT standards for smart mining but also fulfils the company's high performance requirements.

Installation began in early June 2024 and, following a successful test run, was handed over just four weeks later.

All expectations met

The owner completed final acceptance of the solution in early November. The new data centre has been operating reliably ever since.

After commissioning, the Datwyler team remained in close contact with the user to respond promptly to further requests. This included remote training for the data centre staff.



Successful restructuring

The intelligent transformation enabled Beizu Coal Industry to reduce its workforce, increase safety and improve efficiency.

This makes the company a practical example of successful restructuring – for the entire coal mining industry in Shan-xi Province.

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