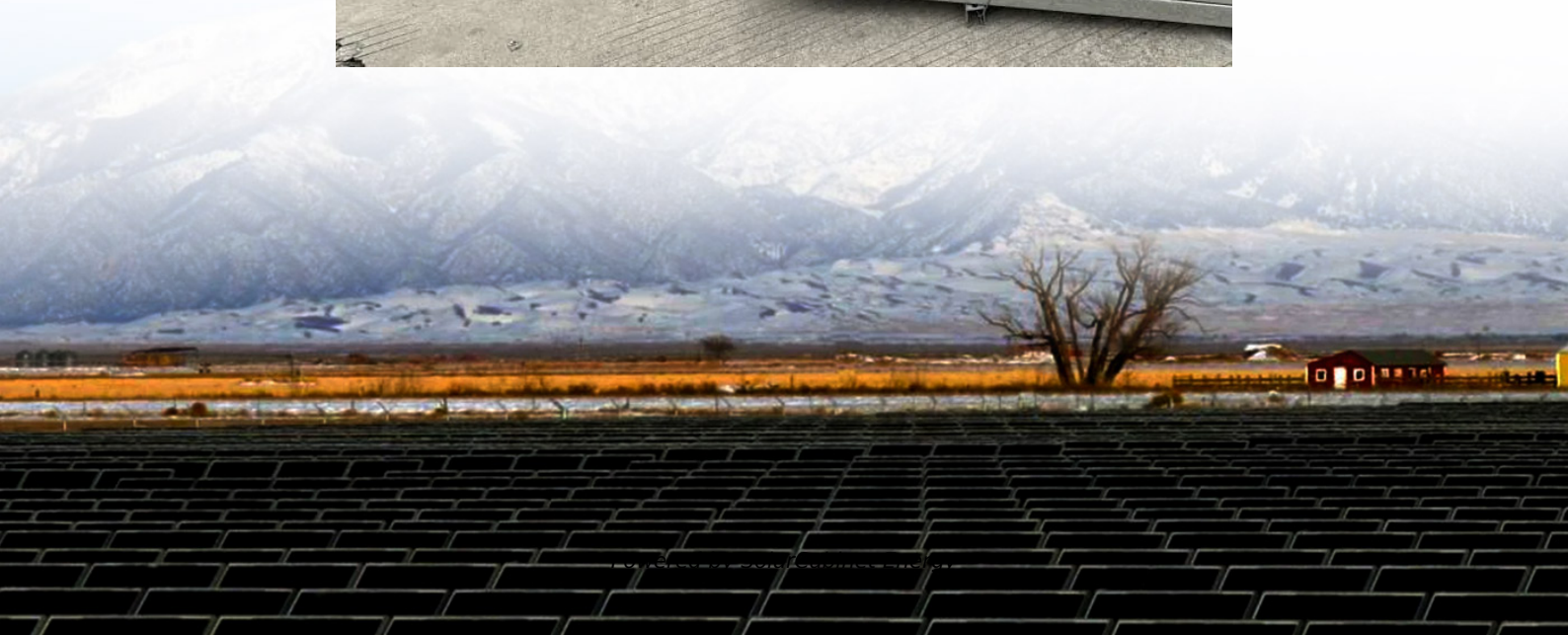


Coal mine 5G communication base station battery





Overview

Can smart coal mines benefit from 5G technology?

As one of the first batch of smart mines in China, Dahaize Coal Mine has demonstrated that even small- and medium-sized coal mines can enjoy the benefits of smart capabilities based on 5G technology with acceptable levels of investment, addressing the high cost and construction difficulty associated with 5G.

Does dahaize coal mine have 5G?

Dahaize Coal Mine will continue to develop its 5G capabilities, including its virtual interaction application, robot clusters, unmanned driving, intelligent wearables, intelligent inspections, smart shearers, and intelligent tunnelling machines.

Can 5G be used in China's coal industry?

Application of 5G in China's coal sector has been plagued by issues such as low coverage by conventional frequency bands and high costs – the success of the Dahaize project however demonstrates to the wider industry that 5G connectivity can be effective and cost-efficient in enhancing both production and safety in the country's coal mining sector.

How can a single phone card help a coal mine?

By using a single phone card, then, miners can work more efficiently and keep connection with loved ones outside of the coal mine. The project at Dahaize has reduced the need for 4 shearer drivers, 6 hydraulic support workers, and 5 clearance staff to one remote control personnel and one safety inspector.

Can 5G be used in mining?

Current 5G private networks however are typically of a single frequency, creating barriers to large-scale applications in mining – including higher construction costs and difficulty in realising 5G full coverage in complex



scenarios, such as mining faces, turning, uphill/downhill, undulation and blind sides.

How can miners underground communicate with public and private networks?

Seamless connection between the private and public networks has been accomplished, so miners underground can use the mobile service of China Broadcasting Network Group to communicate via the private network with internal lines above-ground, and communication with subscribers of public networks above-ground is also supported.



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Research on safety application technology of coal mine 5G communication

On the basis of ensuring the safety and reliability of the communication system, the 5G base station meets the requirements of multiple concurrency, large capacity, high speed and low ...

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