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## IN-SITU ECOLOGICAL CONSTRUCTION TECHNOLOGY IN DESERT OPEN-PIT MINING AREA

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### Abstract

Surface mining has the most obvious and direct influence on ecology. It has great effects on the vulnerable ecological environment in Shendong coalmine area. Therefore, it's necessary to develop an ecological protection technology which contributes to a positive evolution of the open desert mining area. In view of the natural conditions, soil characteristics and features of ecological functions of Majiata open-pit coalmine, technology of in-situ ecological construction of desert open pit coalmine area was put forward and successfully conducted. The concept of “in-situ green management” was brought into enterprise management. Majiata open-pit mine created a new way of resource development and environmental protection, by which the water and soil were well kept and conserved, the mining area surroundings was protected and the production was sustained. It has both theoretical and practical value for the green mining technology with similar conditions.

*Key words:* desert mining area, in-situ ecological construction, in-situ green management, mining engineering, open-pit mining

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