

## PEAK PHOSPHATE IN JORDAN

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### Abstract

The benefits and impacts of mineral resource extraction and processing in Jordan are changing and whilst our vast endowment of phosphate will not be exhausted soon, extraction and production are becoming more challenging. This paper establishes a conceptual analysis of peak phosphate as a powerful tool and it uses Gompertz and logistic models for measuring Jordan's phosphate peak year, peak production and depletion time. Our results showed that based on logistic and Gompertz models results, Jordan's phosphate is likely to peak in 2044 and 2048, respectively. Phosphate production has already passed the peak year in Al-Hasa and Al-Abiad mines. The logistic model for Jordan phosphate which has a peak year of 2048 and a production volume of 15.2 million tonnes matched exactly the Gompertz model for Al-Shidiyah mine which confirms that Jordan's future phosphate production will totally depend on Al-Shidiyah mine.