Development of a new index for assessing the coal seam mechanization (case study: Alborz Sharghi plant)

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Received: 16 Dec. 2011; revised: 6 May 2012; accepted: 9 May 2012; available online: 20 Jun. 2012

Abstract
The most important goals of mechanization are decreasing the Production cost and increasing the quality and efficiency of coal Production. The most important factors that affect the potential of mechanization are seam inclination and thickness, seam uniformity, seam floor and roof conditions. These factors should be considered in coal mine mechanization analysis. In this study, it is important to develop a new index with respect to the mentioned factors. The coal seam mechanization can be classified into five classes such as very high, high, medium, low and very low using this new index. Finally, as a case study the coal seam mechanization of Alborz Sharghi plant was evaluated by using this new index.

Key words: production cost, efficiency, floor and roof conditions, new index.