

Digitalization of the fuel and energy industry: a study of new technologies and their potential

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Abstract. The article describes technologies that are implemented into the production processes, evaluates digital solutions taking into account the latest trends that will allow fuel and energy companies and the industry as a whole to increase the competitiveness of their products, identifies the problems of digitalization of the fuel and energy industry and suggests possible solutions.

1 Introduction

In recent years, the fuel and energy industry has accumulated a large amount of structured data which can provide the industry with new opportunities for the development and efficient use of the existing infrastructure. However, in order to process and use this data in the production process, companies need to implement modern information and digital technologies. The development of new digital technologies and the use of existing ones will allow the fuel and energy companies to improve the competitiveness of products and the industry as a whole.

According to the report of the ranking agencies Deloitte and iR&D Club, in terms of the digital maturity, the ranking of fuel and energy companies (hereinafter referred to as the FE companies) is 2.5 out of five points.

The industry lags behind the banking and trade sectors and the automotive industry (the ranking is based on a survey of the largest companies in the key industries with a turnover of 50 billion rubles a year). [1]

Digital maturity data indicates that new technologies can change the market balance, which can change the strategy of fuel and energy companies, allow for the implementation of new initiatives and create advantages for other economic sectors.

Many industries have been already involved in the technological race for digitalization in all the industries, including the fuel and energy one. For example, in fields with hard-to-recover oil and gas reserves, 3D seismic models and digital twin technology are used in oil refining. New technologies can reduce exploration, production and processing costs, improve production safety and production capacity.

According to some experts, digitalization can speed up the process of seismic data processing. This data is used in making decisions where and how to drill. Due to the data analysis, the field start-up time can be reduced by 30-40%.

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