

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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Potential Fuel Effectiveness In Industry

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storage systems and hydrogen is the only solution for long term storage systems to provide energy during extended periods of low wind speeds or solar insolation Future electricity grid design has to include storage systems as a major component for grid stability and for security of supply The technology of systems designed to achieve this regulation of the supply of renewable energy and a survey of the markets that they will serve is the subject of this book It includes economic aspects to guide the development of technology in the right direction Provides state of the art information on all of the storage systems together with an assessment of competing technologies Features detailed technical economic and environmental impact information of different storage systems Contains information about the challenges that must be faced for batteries and hydrogen storage to be used in conjunction with a fluctuating renewable energy power supply Increased Automobile Fuel Efficiency and Synthetic Fuels ,1982 Powerplant and Industrial Fuel Use Act, annual report United States. Department of Energy. Office of Fuels Programs,1980 *Bulletin of the Atomic Scientists* ,1976-11 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world **Energy Conservation Update** ,1980 **The Efficient Use of Energy** I.G.C. Dryden,2013-10-22 The Efficient Use of Energy Second Edition is a compendium of papers discussing the efficiency with which energy is used in industry The collection covers relevant topics in energy handling and describes the more important features of plant and equipment The book is organized into six parts Part I presents the various methods of heat production The second part discusses the use of heat in industry and includes topics in furnace design industrial heating boiler plants and water treatment Part III deals with the production of mechanical and electrical energy It tackles the principles of internal combustion engines generators and the use of nuclear energy Total energy systems and heat salvage are covered in Part IV Part V elucidates on the use of refractory and insulating materials and the importance of instrumentation and control in the regulation of energy consumption The final section focuses on the environmental aspect of energy production such as the control of pollutants emanating from plants during production The book will be of use to engineers and plant production managers **Increased automobile fuel efficiency and synthetic fuels** United States. Congress. Office of Technology Assessment,1982 **Powerplant and Industrial Fuel Use Act, Annual Report** United States. Department of Energy. Economic Regulatory Administration,1980 **Medium- and Heavy-Duty Fuel Efficiency Improvement Program** ,2011

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