



"ANGEL KANCHEV" UNIVERSITY OF RUSE
UNION OF SCIENTISTS - RUSE

РУСЕНСКИ УНИВЕРСИТЕТ "АНГЕЛ КЪНЧЕВ"
СЪЮЗ НА УЧЕНИТЕ - РУСЕ



58th Annual Science Conference
of Ruse University and Union of Scientists - Ruse
**NEW INDUSTRIES, DIGITAL ECONOMY,
SOCIETY - PROJECTIONS OF THE FUTURE II**

58-ма годишна научна конференция
на Русенски университет и Съюз на учените – Русе
**НОВИ ИНДУСТРИИ, ДИГИТАЛНА ИКОНОМИКА,
ОБЩЕСТВО – ПРОЕКЦИИ НА БЪДЕЩЕТО II**



**SESSIONS SCHEDULE & ABSTRACTS
ПРОГРАМА & РЕЗЮМЕТА**

Silistra, Ruse, Razgrad
Силистра, Русе, Разград
2019



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Sessions Schedule & Abstracts

Програма & Резюмега

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58^{та} Годишна конференция на Русенския университет
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ALTERNATIVE ENERGY SUPPLY OF FOOD INDUSTRY

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Abstract: Global energy supply problems are shifting to the level of autonomous energy supply for food businesses. In addition to environmental issues, there are a number of factors that affect the competitiveness of food businesses. Unstable energy supply, fluctuations in energy prices associated with the use of traditional energy sources, impede the development of companies and corporations. Over the last 10 years, electricity prices for Bulgarian industrial enterprises have increased several times.

In some cases, renewable energy is in close proximity to the manufacturing industry and can solve the energy and environmental problems of the business.

In spite of the numerous publications related to the problems of renewable energy resources, the level of scientific and methodological justification of the regulatory and legal, financial and administrative measures designed to stimulate the transition to the administrative supply of energy from the food industry is not in line with the current stage of the development of energy technology science and the needs of economic practice.

Therefore, the analysis of the strategic directions of alternative energy supply at the level of specific processing enterprises is relevant both in theory and in practical terms.

Keywords: Energy, Resources, Energy saving, Resource saving, Energy supply, Waste

REFERENCES

Energy-Smart Food at FAO: An Overview, <http://www.fao.org/3/an913e/an913e.pdf>

Energy supply and demand: trends and prospects, <http://www.fao.org/3/i0139e/i0139e03-.pdf>

Energy use in the EU food sector: State of play and opportunities for improvement. Edited by F. Monforti-Ferrario and I. Pinedo Pascua, 2015.

IEA (2012), "World Energy Outlook 2012", OECD (Organisation for Economic Co-operation and Development), Paris, www.worldenergyoutlook.org/publications/weo-2012/.

IEA (2013a), "Outlook for Biofuels". Speech by Maria van der Hoeven, Executive Director IEA, World Biofuel Markets 2013, Rotterdam,

https://www.iea.org/newsroomandevents/speeches/EDWorldBiofuelsMarketsROTTERDAMOutlookforBiofuels08_03_13withnotepages4.pdf.

Hazell, P., and R. Pachauri (2006), "Bioenergy and Agriculture: Promises and Challenges", www.ifpri.org/sites/default/files/publications/focus14.pdf.

Lane, J. (2014), "Biofuels Mandates Around the World: 2014", Biofuels Digest, www.biofuelsdigest.com/bdigest/2013/12/31/biofuels-mandates-around-the-world-2014/.