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Education

1999-2004 Electrical power systems and networks, Bratsk State Technical University
2005-2009 Economics and enterprise management, Bratsk State Technical University
2004-2007 PhD Degree; System analysis, management and information processing (2007), Irkutsk State Transport University

Work Experience

2005-2007 Assistant Professor at the department of Power supply systems, Bratsk state university
2007-2014 Associate Professor at the department of Power Engineering and Electrical Engineering, Bratsk state university
2014-2019 Dean at the department of Energy and automation. During this period, under my scientific supervision, two PhD theses were completed by postgraduate students. Bratsk state university
2019-2023 Senior Researcher at the laboratory of energy supply for distributed consumers, Melentiev Energy Systems Institute SB RAS
2021-2023 Associate professor at department of Power supply and electrical engineering, Irkutsk National Research Technical University
2023 Head of the laboratory of interregional and intersectorial energy problems, Melentiev Energy Systems Institute, Siberian Branch of the Russian Academy of Sciences
2023-now head of the department of power supply and electrical engineering, Irkutsk National Research Technical University

Currently, my research interests are focused on the development and application of methods for multi-criteria analysis, optimization of energy systems, and power supply systems. My research area includes methods for assessing the potential of renewable energy sources, energy systems models, and models for sizing and managing of multi-energy systems.

Awards

Awarded in the regional competition in the field of science and technology, 2023

Publications (since 2019)

1. Shakirov V., Popov I. Multi-criteria design of multi-energy system for remote area using NSGA-III and fuzzy TOPSIS. *Journal of Renewable and Sustainable Energy*. 2024. Vol. 16. № 6. <https://doi.org/10.1063/5.0215524>
2. Shakirov, V., Ivanova, I., Tuguzova, T. Development of empirical solar radiation models with genetic algorithm and extended validation procedure // *International Journal of Green Energy*, 2023, 20(10), pp. 1101–1118 (WoS Q3, Scopus Q2, SJR 0.617) <https://doi.org/10.1080/15435075.2022.2145482>
3. Shakirov V., Kozlov A. Multicriteria assessment of biomass gasification-based hybrid energy systems in remote areas // *Biofuels, Bioproducts and Biorefining*, 2023, 17, pp. 380-388 (WoS, Scopus Q2, SJR 0.744) <https://doi.org/10.1002/bbb.2377>
4. Ivanova, I.Y., Shakirov, V.A., Khalgaeva, N.A. Accuracy Analysis of Estimates of Total Solar Radiation in Databases and Regression Models for Eastern Russia Geography and Natural Resources, 2023, 44(3), pp. 278–283 <https://doi.org/10.1134/S1875372823030058>
5. Tomin N., Shakirov V., Kurbatsky V., Muzychuk R., Popova E., Sidorov D., Kozlov A., Yange D. A multi-criteria approach to designing and managing a renewable energy community // *Renewable Energy* Volume 2022. Vol. 199 pp.1153-1175 (WoS, Scopus Q1, SJR 1.815) <https://doi.org/10.1016/j.renene.2022.08.151>
6. Tomin N., Shakirov V., Kozlov A., Sidorov D., Kurbatsky V., Rehtanz C., Lora E.E.S. Design and optimal energy management of community microgrids with flexible renewable energy sources // *Renewable Energy*. 2022. Vol. 183. pp. 903-921 (WoS, Scopus Q1, SJR 1.815) <https://doi.org/10.1016/j.renene.2021.11.024>
7. Popov, S.P., Shakirov, V.A., Kolosnitsyn, A.V., Maksakova, D.V., Baldynov, O.A. Technical and economic model of an autonomous complex for production of «green» hydrogen and its testing on the example of Mongolia and Japan. *Bulletin of the Tomsk Polytechnic University, Geo Assets Engineering*, 2022, 333(11), pp. 124–139 <https://doi.org/10.18799/24131830/2022/11/3773>
8. Shakirov, V.A., Ivanova, I.Yu., Ivanov, R.A. Economic feasibility assessment of connecting remote eastern arctic consumers to the power grid. *Arktika: Ekologia i Ekonomika*, 2022, 12(1), pp. 19–33 <https://doi.org/10.25283/2223-4594-2022-1-19-33>
9. Shakirov, V., Tomin, N., Kurbatsky, V. Distributed siting of wind farms to minimize fluctuations in generated power. 2021 17th Conference on Electrical Machines, Drives and Power Systems, ELMA 2021 - Proceedings, 2021 <https://doi.org/10.1109/ELMA52514.2021.9503045>
10. Ivanova I.Y., Shakirov V.A., Ermakov M.V., Bukher F.S. Feasibility study of using geothermal heat-pump units for substituting small-capacity coal-fired boiler houses (taking the Baikal natural area as an example) // *Thermal Engineering*. 2020. Vol. 67. No 10. pp. 741-750. <https://doi.org/10.1134/S0040601520100055> (WoS, Scopus Q3, SJR 0.282).
11. Shakirov V.A., Fedyaev A.A. Accounting for the impact of blade icing on wind energy production according to weather station data. *International Multi-Conference on Industrial Engineering and Modern Technologies, FarEastCon 2020*. 2020. 9271226. DOI: [10.1109/FarEastCon50210.2020.9271226](https://doi.org/10.1109/FarEastCon50210.2020.9271226)
12. Shakirov V. Decision-Making Based on Multi-Attribute Value Theory Under Preference Uncertainty. *Proceedings of the 7th Scientific Conference on Information Technologies for Intelligent Decision Making Support (ITIDS 2019)* [10.2991/itids-19.2019.32](https://doi.org/10.2991/itids-19.2019.32)
13. Ivanova I., Shakirov V., Khalgaeva N. Effects of the adoption of renewable energy sources within the "Baikal-Khövsgöl" cross-border recreation area. *Energy Systems Research*. 2019. T. 2. № 3 (7). C. 11-20.
14. Shakirov V. The experience in operation and an efficiency analysis for the use of a backpressure steam turbine generator unit in a boiler house *Thermal Engineering*. 2019. Vol. 66. No. 2. pp. 93-99. <https://doi.org/10.1134/S0040601519020058>