

Full Name: Dr. Hussein Abdulkareem Saleh – حسين عبد الكريم صالح	
Place and date of birth: Iraq, 20/05/1988	Nationality: Iraq
Email: hossein.salih88@gmail.com	Mobile: +964-7812406869
Education	
Ph.D. degree	University of West Bohemia, Faculty of Electrical Engineering, Department of Electrical Power Engineering, Pilsen, Czech Republic
M.Sc. degree (2011-2016)	Terbiat Modares University, Electrical & Computer Engineering Faculty, Electric Power Department, Tehran, Iran
B.Sc. degree (2011-2016)	Ferdowsi University of Mashhad, Faculty of Engineering, Department of Electrical Engineering, Mashhad, Iran
Work Experience	
Researcher in energy systems	<p>University of West Bohemia, Faculty of Electrical Engineering, Department of Electrical Power Engineering, Pilsen, Czech Republic.</p> <ul style="list-style-type: none"> • Researching within a group which deals with designing, developing, and optimizing energy systems. • Working to propose solutions to supply the heating, cooling and electrical demand with improved efficiency, carbon free, and economical technologies. • Modeling, formulating, programming, and simulating energy systems.
Electrical Supervisor (2016-2020)	<p>MANA company, Najaf, Iraq.</p> <ul style="list-style-type: none"> • Analyzing, evaluating, checking and electrical installation plots. • Solving the technical issues, fabrication, and as-built drawing. • Advising the technician team during the installation process.
Skills	
<ul style="list-style-type: none"> ➤ Computer Skills: Office (word, excel, power point), C++ programming, MATLAB simulating. ➤ Language Skills: Arabic (native), English (intermediate), Persian (fluent), Czech (beginner). 	
Publications	
<p>1) ABUSHAMAH, H.A.S., MAŠATA, D., JIŘIČKOVÁ, J., ŠKODA, R. Optimization of Sizing and Operation of a Nuclear District Heating System Using Teplator, Gas Boiler and Heat Storage. In Proceedings of the International Conference Nuclear Energy for New Europe (NENE 2022). Ljubljana: Nuclear Society of Slovenia, 2022. s. „910.1“-„910.8“. ISBN: 978-961-6207-53-9.</p> <p>2) ABUSHAMAH, H. A. S., HAGHIFAM, M., BOLANDI, T. G. A novel approach for</p>	

distributed generation expansion planning considering its added value compared with centralized generation expansion. *Sustainable Energy, Grids and Networks*, 2021, roč. 25, č. March 2021, s. 1-18. ISSN: 2352-4677.

- 3) ABUSHAMAH, H.A.S., JIŘIČKOVÁ, J., ŠKODA, R. Nuclear Based Approach for Multi Energy Applications. In *Elektrotechnika a informatika 2021*. Elektrotechnika, elektronika, elektroenergetika. Plzeň: Západočeská univerzita v Plzni, 2021. s. 5-8. ISBN: 978-80-261-1019-4.
- 4) ABUSHAMAH, H.A.S., JIŘIČKOVÁ, J., ŠKODA, R., MAŠATA, D. Evaluating the TEPLATOR concept as a nuclear heating solution compared with other alternatives in the Czech Republic. In *Proceedings of the International Conference Nuclear Energy for New Europe (NENE 2021)*. Ljubljana: Nuclear Society of Slovenia, 2021. s. 210.1-210.8. ISBN: 978-961-6207-51-5.
- 5) ŠKODA, R., ABUSHAMAH, H.A.S. Nuclear solution for district cooling and its benefits on the power system. In *Proceedings of ICAPP 2021*. Abu Dhabi: Khalifa University, 2021. s. 1-9.
- 6) ABUSHAMAH, H. A. S., MAŠATA, D., MÜLLER, M., ŠKODA, R. Economics of reusing spent nuclear fuel by Teplator for district heating applications. *INTERNATIONAL JOURNAL OF ENERGY RESEARCH*, 2022, roč. 46, č. 5, s. 5771-5788. ISSN: 0363-907X.
- 7) ABUSHAMAH, H. A. S., BURIAN, O., ŠKODA, R. Design and Operation Optimization of a Nuclear Heat-Driven District Cooling System. *INTERNATIONAL JOURNAL OF ENERGY RESEARCH*, 2023, roč. Volume 23, ISSN: 0363-907X.
- 8) ABUSHAMAH, H. A. S., ŠKODA, R. Nuclear energy for district cooling systems - Novel approach and its eco-environmental assessment method. *ENERGY*, 2022, July 2022, s. 1-19. ISSN: 0360-5442.
- 9) MAŠATA, D., ABUSHAMAH, H.A.S., JIŘIČKOVÁ, J., ŠKODA, R. Nuclear Power for the Decarbonization of the District Heating Sector in the Czech Republic. In *Proceedings of the International Conference Nuclear Energy for New Europe (NENE 2022)*. Ljubljana: Nuclear Society of Slovenia, 2022. s. „1201.1“-„1201.8“. ISBN: 978-961-6207-53-9.

Conferences

Location	Contribution	Date
International Conference Nuclear Energy for New Europe. Ljubljana: Nuclear Society of Slovenia	Poster presentation.	September 6 – 9. 2021
International Congress on Advances in Nuclear Power Plants, Khalifa University, Abu Dhabi, UAE.	Online attendance and presentation.	October 16 – 20. 2021

International Conference Nuclear Energy for New Europe. Ljubljana: Nuclear Society of Slovenia	Poster presentation.	September 12 – 15. 2022
French-Czech-Slovak Summer School, Czech Republic -Třebíč.	Attendance.	August 30 – September 3. 2021
Nuclear days, University of West Bohemia	Presentation and poster.	September 15 2021.
Nuclear days, University of West Bohemia	Attendance.	September 14 – 15.
PILSMR International Workshop	Attendance.	October 23 – 27, 2023