

Kafait Ullah

Associate Professor

US-Pakistan Center for Advanced Studies in Energy

Email: kafaitullah@uspcase.nust.edu.pk

Contact: 000000000

LinkedIn:



About

Dr. Kafait Ullah is working as Associate Professor in the US-Pakistan Center for Advanced Studies in Energy. Dr. Kafait Ullah has a PhD in Energy Reforms. Dr. Kafait Ullah has published 42 research articles & conference papers having a citation count of 859, carried out 4 projects and filed 0 intellectual property.

Qualifications

PhD in Energy Reforms	2010 - 2015
University of Twente , Netherlands	
MS in Development Economics	2006 - 2008
Agricultural University of Norway , Norway	
Master in Economics	2000 - 2002
University of the Punjab , Pakistan	

Experience

Associate Professor	2024- Present
US-Pakistan Center for Advanced Studies in Energy	
Associate Professor	2021 - 2016
US-Pakistan Center for Advanced Studies in Energy	
Assistant Professor	2019 - 2021
US-Pakistan Center for Advanced Studies in Energy	
Assistant Professor	2019 - 2019
US-Pakistan Center for Advanced Studies in Energy	
Assistant Professor	2016 - 2019
Centre for Energy System	
Assistant Professor	2016 - 2021
Centre for Energy System	
Assistant Professor	2015 - 2016
Comsats Institute of Information Technology Islamabad , Park Road, Islamabad	

Research Projects

National Projects	
To combat climate calamity by promoting energy transition In Pakistan through Knowledge creation, networking, and advocacy for enabling society.	2022
Funding Agency: Tara Climate Ltd	
Amount: PKR 11,312,840.00	
Status: Completed	
Developing the Strategy for Policy Oriented Energy Research Modeling at USPCAS-E - NUST	2017
Funding Agency: USAID	
Amount: PKR 2,700,000.00	
Status: Completed	

International Projects

Industry Projects

National Projects

Overview of Pakistan’s Power Sector and its Future Outlook	2022
Client: China Three Gorges Corporation (CTC)	
Amount: PKR 1,000,000.00	
Status: Completed	
Enabling Women’s Access to Higher-Skilled and Non-traditional Occupations in the Energy Sector in Pakistan	2020
Client: Asian Development Bank	
Amount: PKR 350,000.00	
Status: Completed	

International Projects

Research Articles

Enhancing Renewable Energy Integration in Developing Countries: A Policy-Oriented Analysis of Net Metering in Pakistan Amid Economic Challenges	2024
<i>Noor Saleem Khan Syed Ali Abbas Kazmi Mustafa Anwar Saqib Ur Rehman Mughal Kafait Ullah Mahesh Kumar Rathi Ahmad Salal Sustainability</i> , Volume 16(14), Article Number 6034	
Impact Factor: 3.300 Quartile: 2 Citations: 7	
DOI: https://doi.org/10.3390/su16146034	
Sustainable and cost-effective hybrid energy solution for arid regions: Floating solar photovoltaic with integrated pumped storage and conventional hydropower	2023
<i>Adeel Javed Majid Ali Kafait Ullah Syed Ali Abbas Kazmi Jehanzeb Nasir Journal of Energy Storage</i> , Volume 74, Part B, Article Number 109417	
Impact Factor: 9.4 Quartile: 1 Citations: 15	
DOI: https://doi.org/10.1016/j.est.2023.109417	
Barriers to the adoption of social welfare measures in the electricity tariff structure of developing countries: A case of Pakistan	2023
<i>Muhammad Zain Jan Kafait Ullah Faisal Abbas Hassan Abdullah Khalid Tariq Mahmood Bajwa Energy Policy</i> , Volume 179, Article Number 113648	
Impact Factor: 9.0 Quartile: 1 Citations: 9	
DOI: https://doi.org/10.1016/j.enpol.2023.113648	
Capacity optimization of pumped storage hydropower and its impact on an integrated conventional hydropower plant operation	2022
<i>Jehanzeb Nasir Adeel Javed Majid Ali Kafait Ullah Syed Ali Abbas Kazmi Applied Energy</i> , Volume 323, Article Number 119561	
Impact Factor: 11.446 Quartile: 1 Citations: 54	
DOI: https://doi.org/10.1016/j.apenergy.2022.119561	
Economic and environmental analysis of green transport penetration in Pakistan	2022
<i>Muhammad Shahid Kafait Ullah Kashif Imran Neha Masroor Muhammad Bilal Sajid Energy Policy</i> , Volume 166, Article Number 113040	
Impact Factor: 6.142 Quartile: 1 Citations: 18	
DOI: https://doi.org/10.1016/j.enpol.2022.113040	
Techno-economic assessment of solar water heating systems for sustainable tourism in northern Pakistan	2022
<i>Muhammad Naveed Arif Adeel Waqas Faaz Ahmed Butt Mariam Mahmood Asif Hussain Khoja Majid Ali Kafait Ullah M. A Mujtaba M.A Kalam Alexandria Engineering Journal</i> , Volume 61, Issue 7, Pages 5485-5499	
Impact Factor: 6.8 Quartile: 1 Citations: 18	
DOI: 10.1016/j.aej.2021.11.006	
Rooftop solar adoption among populations and markets outside the US and Europe—A case from Pakistan	2022
<i>Ittikhar Ahmed Shahid Kafait Ullah Clark A. Miller Muhammad Dawood Muhammad Imran Ahmad Electricity Journal</i> , Volume 35, Issue 3, Article Number 107090	
Impact Factor: N/A Citations: 15	
DOI: https://doi.org/10.1016/j.tej.2022.107090	

<p>Did the restructuring of the electricity generation sector increase social welfare in Pakistan?</p> <p><i>Muhammad Hamza Jamil Kafait Ullah Noor Saleem Khan Faisal Abbas Hassan Abdullah Khalid</i> <i>Renewable and Sustainable Energy Reviews</i>, Volume 157, Article Number 112017</p> <p>Impact Factor: 14.982 Quartile: 1 Citations: 12 DOI: https://doi.org/10.1016/j.rser.2021.112017</p>	2022
<p>Assessment of long-term energy and environmental impacts of the cleaner technologies for brick production</p> <p><i>Akhtar Abbas Muhammad Bilal Sajid Muhammad Asaad Iftikhar Asif Hussain Khoja Muhammad Muneeb Muhammad Shahid Kafait Ullah</i> <i>Energy Reports</i>, Volume 7, Pages 7157-7169</p> <p>Impact Factor: 4.937 Quartile: 2 Citations: 31 DOI: 10.1016/j.egyr.2021.10.072</p>	2021
<p>Techno-economic assessment and sustainability impact of hybrid energy systems in Gilgit-Baltistan, Pakistan</p> <p><i>Mazhar Ali Rashid Wazir Kashif Imran Kafait Ullah Abdul Kashif Janjua Abasin Ulasyar Abraiz Khattak Joseph M. Guerrero</i> <i>Energy Reports</i>, Volume 7, Pages 2546-2562</p> <p>Impact Factor: 4.937 Quartile: 2 Citations: 61 DOI: https://doi.org/10.1016/j.egyr.2021.04.036</p>	2021
<p>Systematic Development of Short-Term Load Forecasting Models for the Electric Power Utilities: The Case of Pakistan</p> <p><i>Aneeqe Amhed Mir Zafar A. Khan Abdullah Altamimi Maria Badar Kafait Ullah Muhammad Imran Syed Ali Abbas Kazmi</i> <i>IEEE Access</i>, Volume 9, Pages 140281-140297</p> <p>Impact Factor: 3.367 Quartile: 2 Citations: 17 DOI: 10.1109/ACCESS.2021.3117951</p>	2021
<p>Nexus between Household Energy and Poverty in Poorly Documented Developing Economies—Perspectives from Pakistan</p> <p><i>Iftikhar Ahmed Shahid Kafait Ullah Atif Naveed Khan Muhammad Dawood Clark Miller Muhammad Imran Ahmed Zafar A. Khan</i> <i>Sustainability</i>, Volume 13(19), Article Number 10894</p> <p>Impact Factor: 3.251 Quartile: 2 Citations: 3 DOI: https://doi.org/10.3390/su131910894</p>	2021
<p>Measuring Coherence Between Electricity and Environmental Policies of Pakistan</p> <p><i>Kafait Ullah Hussain Ali</i> <i>Pakistan Journal of Social Issues</i>, Volume XII, Pages 32-50</p> <p>Impact Factor: N/A DOI: http://uog.edu.pk/downloads/journal/XII/03.pdf</p>	2021
<p>LEAP simulated economic evaluation of sustainable scenarios to fulfil the regional electricity demand in Pakistan</p> <p><i>Muhammad Shahid Kashif Imran Kafait Ullah Arshad Mehmood Maarten Arentsen</i> <i>Sustainable Energy Technologies and Assessment</i>, Volume 46, Article Number 101292</p> <p>Impact Factor: 7.632 Quartile: 2 Citations: 41 DOI: https://doi.org/10.1016/j.seta.2021.101292</p>	2021
<p>Ensuring Reliable Operation of Electricity Grid by Placement of FACTS Devices for Developing Countries</p> <p><i>Atif Naveed Khan Kashif Imran Abraiz Khattak Kafait Ullah Muhammad Shahzad Younis Muhammad Nadeem Anamitra Pal Muhammad Waseem Younas</i> <i>Energies</i>, Volume 14(8), Article Number 2283</p> <p>Impact Factor: 3.252 Quartile: 3 Citations: 9 DOI: https://doi.org/10.3390/en14082283</p>	2021
<p>Long-term scenario pathways to assess the potential of best available technologies and cost reduction of avoided carbon emissions in an existing 100% renewable regional power system: A case study of Gilgit-Baltistan (GB), Pakistan</p> <p><i>Arif Hussain Usama Perwez Kafait Ullah Chul-Hwan Kim Nosheen Asghar</i> <i>Energy</i>, Volume 221, Article Number 119855</p> <p>Impact Factor: 8.857 Quartile: 1 Citations: 41 DOI: https://doi.org/10.1016/j.energy.2021.119855</p>	2021
<p>Modeling, simulation and forecasting of wind power plants using agent-based approach</p> <p><i>Imran Mahmood Anis-ur-Rahman Mahe Mubeen Shahzad Younis Asad Waqar Malik Muhammad Moazam Fraz Kafait Ullah</i> <i>Journal of Cleaner Production</i>, Volume 276, Article Number 124172</p>	2020

Impact Factor: 9.297 Quartile: 1 Citations: 15 DOI: https://doi.org/10.1016/j.jclepro.2020.124172	
Impact Analysis of Large-Scale Wind Farms Integration in Weak Transmission Grid from Technical Perspectives <i>Shah Rukh Abbas Syed Ali Abbas Kazmi Muhammad Naqvi Adeel Javed Salman Raza Naqvi Kafait Ullah Tauseef-ur-Rehman Khan Dong Ryeol Shin</i> <i>Energies</i> , Volume 13, Issue 20, Article Number 5513 Impact Factor: 3.004 Quartile: 3 Citations: 20 DOI: 10.3390/en13205513	2020
Bilateral negotiations for electricity market by adaptive agent-tracking strategy <i>Kashif Imran Abraiz Khattak Kafait Ullah Sherjeel Mahmood Baig Jiangfeng Zhang Anamitra Pal</i> <i>Electric Power Systems Research</i> , Volume 186, Article Number 106390 Impact Factor: 3.414 Quartile: 2 Citations: 18 DOI: https://doi.org/10.1016/j.epsr.2020.106390	2020
Electricity supply pathways based on renewable resources: A sustainable energy future for Pakistan <i>Muhammad Shahid Kafait Ullah Kashif Imran Imran Mahmood Arshad Mahmood</i> <i>Journal of Cleaner Production</i> , Volume 263, Article Number 121511 Impact Factor: 9.297 Quartile: 1 Citations: 48 DOI: https://doi.org/10.1016/j.jclepro.2020.121511	2020
A Review of Electricity Demand Forecasting in Low and Middle Income Countries: The Demand Determinants and Horizons <i>Aneeqe Ahmed Mir Mohammed Alghassab Kafait Ullah Zafar A. Khan Yuehong Lu Muhammad Imran</i> <i>Sustainability</i> , Volume 12, Issue 15, Article Number 5931 Impact Factor: 3.251 Quartile: 2 Citations: 91 DOI: 10.3390/su12155931	2020
Matchmaking Model for Bilateral Trading Decisions of Load Serving Entity <i>Kashif Imran Kafait Ullah Abraiz Khattak Jiangfeng Zhangb Anamitra Pal Muhammad Nauman Rafique Sherjeel Mahmood Baig</i> <i>Electric Power Systems Research</i> , Volume 183, Article Number 106281 Impact Factor: 3.414 Quartile: 2 Citations: 9 DOI: https://doi.org/10.1016/j.epsr.2020.106281	2020
The impact of information and communication technologies, CO2 emissions, and energy consumption on inclusive development in developing countries <i>Faisal Mehmood Mirza Samra Anwar Kafait Ullah Fauzia Maqsood</i> <i>Environmental Science and Pollution Research</i> , Pages 1-13 Impact Factor: 3.056 Quartile: 2 Citations: 28 DOI: 10.1007/s11356-019-07131-5	2019
Impact of China-Pakistan economic corridor on Pakistan's future energy consumption and energy saving potential: Evidence from sectoral time series analysis <i>Faisal Mehmood Mirza Nishat Fatima Kafait Ullah</i> <i>Energy Strategy Reviews</i> , Volume 25, Pages 34-46 Impact Factor: 3.895 Quartile: 2 Citations: 55 DOI: 10.1016/j.esr.2019.04.015	2019
Barriers to hydro-power resource utilization in Pakistan: A mixed approach <i>Kafait Ullah Muhammad Shabbar Raza Faisal Mehmood Mirza</i> <i>Energy Policy</i> , Volume 132, Pages 723-735 Impact Factor: 5.042 Quartile: 1 Citations: 31 DOI: https://doi.org/10.1016/j.enpol.2019.06.030	2019
Exploring the Link between Workplace Environment and Workers? Satisfaction: IT & Telecom Industry of Islamabad, Pakistan <i>Kafait Ullah Muhammad Mughees Faisal Mehmood Mirza Usman Shakoor</i> <i>Journal of Social Issues</i> , Volume 9, Pages 1-17 Impact Factor: - DOI: https://uog.edu.pk/downloads/journal/IX/1.pdf	2018
Prioritizing the gaseous alternatives for the road transport sector of Pakistan: A multi criteria decision making analysis <i>Kafait Ullah Salman Hamid Faisal Mehmood Mirza Usman Shakoor</i> <i>Energy</i> , Volume 165, Pages 1072-1084, Part B	2018

Impact Factor: 5.537 Quartile: 1 Citations: 26 DOI: 10.1016/j.energy.2018.10.055	
Factors responsible for solar PV adoption at household level: A case of Lahore, Pakistan <i>Tahir Masood Qureshi Kafait Ullah Maarten Arentsen</i> <i>Renewable and Sustainable Energy Reviews</i> , NULL Impact Factor: 9.184 Quartile: 1 Citations: 111 DOI: 10.1016/j.rser.2017.04.020	2017
Assessing the efficiency dynamics of Post- Reforms electric distribution utilities in Pakistan <i>Faisal Mehmood Mirza Iqra Mushtaq Kafait Ullah</i> <i>Utilities Policy</i> , Volume 47, Pages 18-28 Impact Factor: 2.098 Quartile: 3 Citations: 23 DOI: 10.1016/j.jup.2017.06.003	2017
Institutional determinants of power sector reform in Pakistan <i>Kafait Ullah Maarten Arentsen Jon C. Lovett</i> <i>Energy Policy</i> , Volume 102, Pages 332-339 Impact Factor: 4.039 Quartile: 1 Citations: 33 DOI: 10.1016/j.enpol.2016.12.019	2017
Globalization and Economic Growth: Evidence from Pakistan <i>Aqil Khan Muhammad Aamir Khan G. Badri Narayanan Kafait Ullah Iftikhar ul Hasnain</i> <i>Pakistan Journal of Social Issues</i> , Volume 7, Pages 41-51 Impact Factor: N/A DOI: -	2016

Conference Proceedings

Short Term Load Forecasting for Electric Power Utilities: A Generalized Regression Approach Using Polynomials and Cross-Terms <i>Aneeqe Amhed Mir Kafait Ullah Zafar A. Khan Furrukh Bashir Tauseef Ur Rehman Khan Abdullah Altamimi</i> <i>1st International Conference on Energy, Power and Environment, Gujrat, Pakistan,, res.country(177,)</i> Citations: N/A DOI: https://doi.org/10.3390/engproc2021012021	2021
Multiple-Criteria Policy Anaysis of Circular Debt in Pakistan <i>Musaab Ali Ahsan Bin Ahmad Kafait Ullah Armeena Khan Musaab Ali Ahsan Bin Ahmad Kafait Ullah Armeena Khan</i> <i>International Conference on Engineering and Emerging Technologies (ICEET), res.country(177,)</i> Citations: N/A DOI: 10.1109/ICEET48479.2020.9048226	2020
MCDM Analysis of Renewable and Conventional Energy Power Plants in Pakistan <i>Muhammad Azhar Kafait Ullah</i> <i>3rd International Conference on Computing, Mathematics and Engineering Technologies (iCoMET), res.country(177,)</i> Citations: N/A DOI: 10.1109/iCoMET48670.2020.9073843	2020
Load Forecasting of an Educational Institution using Machine Learning: The Case of NUST, Islamabad <i>Ali Yousaf Kharal A. Mahmood Kafait Ullah</i> <i>Asia Pacific International Conference on Emerging Engineering (APICEE) held in Rahim Yar Khan, Pakistan on November 09-10, 2019 res.country(177,)</i> Citations: N/A DOI: nil	2019
A comparative study on off grid electrification options for Pakistan <i>Muhammad Sheheryar Iqbal Irfan Yousuf Kafait Ullah</i> <i>4th Conference on Sustainability in Process Industry (SPI-2018), res.country(177,)</i> Citations: N/A DOI: N/A	2018
Optimal Economic Analysis of Hybrid Off Grid (Standalone) Energy System for Provincial Capitals of Pakistan: A comparative Study Based On Simulated Results Using Real-Time Data <i>M. Haseeb Nawaz Muhammad Umer Khan Anam Zahra Mazhar Ali Rashid Wazir Kafait Ullah</i> <i>4th International Conference on Power Generation Systems and Renewable Energy Technologies (PGSRET), res.country(177,)</i> Citations: N/A	2018

DOI: 10.1109/PGSRET.2018.8685991

The Long-term Forecast Of Gilgit Baltistan (GB)'s Electricity Demand

2018

Arif Hussain Kafiat Ullah Usama Bin Perwez Muhammad Shahid

4th International Conference on Power Generation Systems and Renewable Energy Technologies (PGSRET), res.country(177,)

Citations: N/A

DOI: 10.1109/PGSRET.2018.8685966

Gilgit-Baltistan (GB) Feasible Hydro Potential Sites, Its Utilization and Future Scenarios

2018

Arif Hussain Muneeb Hussain Dr Kafaitullah

MDSRIC - 2018 wah , res.country(177,)

Citations: N/A

DOI: <http://uow.edu.pk/ORIC/Publications.aspx>

Study of Wind Resource Potential in Coastal Areas of Balochistan (Gawadar and Jiwani) using ARIMA Model, Artificial Neural Network and RETScreen

2017

Anam Zahra Rashid Wazir Samreen Siddique Kafait Ullah

MDSRC - 2017 Wah , res.country(177,)

Citations: N/A

DOI: <http://uow.edu.pk/ORIC/Publications.aspx>

Wind Resource Assessment in Southern Punjab using Artificial Neural Network (ANN) and RETScreen: A case of study of Bahawalpur and Multan Districts

2017

Anam Zahra Rashid Wazir Samreen Siddique Kafait Ullah Hassan Abdullah Khalid

Nano SET-17 , res.country(177,)

Citations: N/A

DOI: <https://lahore.comsats.edu.pk/nanaset/downloads/NanoSET-17-Conference-Program-20171024.pdf>

Estimation of hydropower capacity and unknown river flow at Athmuqam by GIS and Regression Technique

2017

Muhammad Ahsan Amjad Kafait Ullah Munawar Iqbal Parvez Akhter Majid Ali Salman Ahmad Kashif jamal

7th International Conference on Environmentally Sustainable Development (ESDev-VII), res.country(177,)

Citations: N/A

DOI: ...

Editorial Activities

Energy Strategy Reviews Reviewed Papers for Journals Impact Factor: 8.2	2023
Sustainable Cities and Society Reviewed Papers for Journals Impact Factor: 10.696	2022
Sustainability Reviewed Papers for Journals Impact Factor: 3.889	2022
Cogent Engineering Reviewed Papers for Journals Impact Factor: NA	2022
Journal of Transport Geography Reviewed Papers for Journals Impact Factor: 5.899	2021
 Reviewed Papers for Journals Impact Factor: 5.268	2020
 Reviewed Papers for Journals	2020
 Reviewed Papers for Journals Impact Factor: 3.895	2020
 Reviewed Papers for Journals Impact Factor: 4.039	2018
 Reviewed Papers for Journals Impact Factor: 0.976	2018