## **Kafait Ullah**

#### Associate Professor

US-Pakistan Center for Advanced Studies in Energy

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Contact: 000000000

LinkedIn:



2010 2015

### **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

DhD in Engray Potermo

PhD in Energy Reforms University of Twente, Netherlands	2010 - 2015
MS in Development Economics  Agricultural University of Norway, Norway	2006 - 2008
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.

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

Funding Agency: USAID Amount: PKR 2,700,000.00 Status: Completed

## **International Projects**

2022

2017

### **Industry Projects**

DOI: https://doi.org/10.1016/j.tej.2022.107090

# **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 2020 **Pakistan** Client: Asian Development Bank Amount: PKR 350,000.00 Status: Completed **International Projects Research Articles** 2024 Enhancing Renewable Energy Integration in Developing Countries: A Policy-Oriented Analysis of Net Metering in Pakistan Amid Economic Challenges Noor Saleem Khan Syed Ali Abbas Kazmi Mustafa Anwar Saqib Ur Rehman Mughal Kafait Ullah Mahesh Kumar Rathi Ahmad Salal Sustainability, Volume 16(14), Article Number 6034 Impact Factor: 3.300 | Quartile: 2 | Citations: 7 DOI: https://doi.org/10.3390/su16146034 2023 Sustainable and cost-effective hybrid energy solution for arid regions: Floating solar photovoltaic with integrated pumped storage and conventional hydropower Adeel Javed Majid Ali Kafait Ullah Syed Ali Abbas Kazmi Jehanzeb Nasir Journal of Energy Storage, 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 2023 Barriers to the adoption of social welfare measures in the electricity tariff structure of developing countries: A case of Pakistan Muhammad Zain Jan Kafait Ullah Faisal Abbas Hassan Abdullah Khalid Tariq Mahmood Bajwa Energy Policy, 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 2022 hydropower plant operation Jehanzeb Nasir Adeel Javed Majid Ali Kafait Ullah Syed Ali Abbas Kazmi Applied Energy, Volume 323, Article Number 119561 Impact Factor: 11.446 | Quartile: 1 | Citations: 54 DOI: https://doi.org/10.1016/j.apenergy.2022.119561 2022 Economic and environmental analysis of green transport penetration in Pakistan Muhammad Shahid Kafait Ullah Kashif Imran Neha Masroor Muhammad Bilal Sajid Energy Policy, 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 2022 Pakistan 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, 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 2022 Pakistan Iftikhar Ahmed Shahid Kafait Ullah Clark A. Miller Muhammad Dawood Muhammad Imran Ahmad Electricity Journal, Volume 35, Issue 3, Article Number 107090 Impact Factor: N/A | Citations: 15

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

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

2018

Kafait Ullah Salman Hamid Faisal Mehmood Mirza Usman Shakoor

Prioritizing the gaseous alternatives for the road transport sector of Pakistan: A multi criteria decision

Energy, Volume 165, Pages 1072-1084, Part B

making analysis

DOI: https://uog.edu.pk/downloads/journal/IX/1.pdf

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 2017 Tahir Masood Qureshi Kafait Ullah Maarten Arentsen Renewable and Sustainable Energy Reviews, NULL Impact Factor: 9.184 | Quartile: 1 | Citations: 111 DOI: 10.1016/j.rser.2017.04.020 Assessing the efficiency dynamics of Post- Reforms electric distribution utilities in Pakistan 2017 Faisal Mehmood Mirza Iqra Mushtaq Kafait Ullah Utilities Policy, Volume 47, Pages 18-28 Impact Factor: 2.098 | Quartile: 3 | Citations: 23 DOI: 10.1016/j.jup.2017.06.003 Institutional determinants of power sector reform in Pakistan 2017 Kafait Ullah Maarten Arentsen Jon C. Lovett Energy Policy, Volume 102, Pages 332-339 Impact Factor: 4.039 | Quartile: 1 | Citations: 33 DOI: 10.1016/j.enpol.2016.12.019 Globalization and Economic Growth: Evidence from Pakistan 2016 Aqil Khan Muhammad Aamir Khan G. Badri Narayanan Kafait Ullah Iftikhar ul Hasnain Pakistan Journal of Social Issues, Volume 7, Pages 41-51 Impact Factor: N/A DOI: -**Conference Proceedings** Short Term Load Forecasting for Electric Power Utilities: A Generalized Regression Approach Using 2021 **Polynomials and Cross-Terms** Aneeque Amhed Mir Kafait Ullah Zafar A. Khan Furrukh Bashir Tauseef Ur Rehman Khan Abdullah Altamimi 1st International Conference on Energy, Power and Environment, Gujrat, Pakistan,, res.country(177,) DOI: https://doi.org/10.3390/engproc2021012021 Multiple-Criteria Policy Anaysis of Circular Debt in Pakistan 2020 Musaab Ali Ahsan Bin Ahmad Kafait Ullah Armeena Khan Musaab Ali Ahsan Bin Ahmad Kafait Ullah Armeena Khan International Conference on Engineering and Emerging Technologies (ICEET), res.country(177,) Citations: N/A DOI: 10.1109/ICEET48479.2020.9048226 MCDM Analysis of Renewable and Conventional Energy Power Plants in Pakistan 2020 Muhammad Azhar Kafait Ullah 3rd International Conference on Computing, Mathematics and Engineering Technologies (iCoMET), res.country(177,) Citations: N/A DOI: 10.1109/iCoMET48670.2020.9073843 Load Forecasting of an Educational Institution using Machine Learning: The Case of NUST, Islamabad 2019 Ali Yousaf Kharal A. Mahmood Kafait Ullah Asia Pacific International Conference on Emerging Engineering (APICEE) held in Rahim Yar Khan, Pakistan on November 09-10, 2019 res.country(177,) Citations: N/A DOI: nil A comparative study on off grid electrification options for Pakistan 2018 Muhammad Sheheryar Iqbal Irfan Yousuf Kafait Ullah 4th Conference on Sustainability in Process Industry (SPI-2018), res.country(177,) Citations: N/A

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

M. Haseeb Nawaz Muhammad Umer Khan Anam Zahra Mazhar Ali Rashid Wazir Kafait Ullah

2018

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

Citations: N/A

DOI: N/A

<b>DOI:</b> 10.1109/PGSRET.2018.8685991	
The Long-term Forecast Of Gilgit Baltistan (GB)'s Electricity Demand  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	2018
Gilgit-Baltistan (GB) Feasible Hydro Potential Sites, Its Utilization and Future Scenarios  Arif Hussain Muneeb Hussain Dr Kafaitullah  MDSRIC - 2018 wah, res.country(177,)  Citations: N/A  DOI: http://uow.edu.pk/ORIC/Publications.aspx	2018
Study of Wind Resource Potential in Coastal Areas of Balochistan (Gawadar and Jiwani) using ARIMA  Model, Artificial Neural Network and RETScreen  Anam Zahra Rashid Wazir Samreen Siddique Kafait Ullah  MDSRC - 2017 Wah, res.country(177,)	2017
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  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/nanoset/downloads/NanoSET-17-Conference-Program-20171024.pdf	2017
Estimation of hydropower capacity and unknown river flow at Athmuqam by GIS and Regression Technique  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:	2017

# **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	2018