Hasan Masrur, PhD

Assistant Professor
Industrial and Systems Engineering Department
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EDUCATION

10/2019–9/22	**Ph.D. in Interdisciplinary Intelligent Systems Engineering**, Faculty of Engineering, University of the Ryukyus, Japan, 2022
8/2015–7/17	**Master of Engineering in Electric Power System Management**, Dept. of Energy, Environment and Climate Change, Asian Institute of Technology, Thailand, 2017
4/2010–9/14	**B. Sc. in Electrical and Electronic Engineering**, Department of Electrical & Electronic Engineering, Faculty of Engineering and Technology, Eastern University, Bangladesh, 2014

APPOINTMENTS

09/2024–Present	**Assistant Professor**, Industrial and Systems Engineering Department, King Fahd University of Petroleum and Minerals, S audi Arabia
01/2023–08/24	**Teaching Fellow**, Control & Instrumentation Engineering Department, King Fahd University of Petroleum and Minerals, Saudi Arabia
11/2022–08/24	**Postdoctoral Fellow**, Interdisciplinary Research Center for Smart Mobility & Logistics, King Fahd University of Petroleum and Minerals, Saudi Arabia
10/2019–9/22	**Research Assistant**, Department of Electrical and Electronic Engineering, University of the Ryukyus, Japan
4/2021–8/21	**Guest Researcher**, 'Powering the aquaculture system with renewables' project at Nakagusuku Aquaculture Innovation Center (NAICe), Okinawa, Japan
8/2020–12/20	**Specially Appointed Research Assistant**, Graduate School of Advanced Science and Engineering, Hiroshima University, Japan
8/2017–8/19	**R&D Officer**, Earthmoving Solution Limited, Heavy mobile machinery department, Bangladesh
3/2015–7/15	**Sales & Service Engineer**, Tokai Power Products Limited, Bangladesh

TEACHING INTERESTS

Introduction to Data Science, Engineering Economic Analysis, Engineering Probability and Statistics, Simulation Modeling and Analysis, Reliability and Maintainability, Logistics and Transportation Systems, Electric Energy Engineering, Smartgrid and microgrid, Automation devices, Energy and Environment.

RESEARCH INTERESTS

Optimization, resilience and techno-economics of power & energy systems; Reliability Modeling for Sustainable Energy systems; Routing and scheduling of Electric vehicles and their integration to the power grid; Application of AI/ML techniques in energy systems

TEACHING & SUPERVISORY EXPERIENCE

Courses

2023– King Fahd University of Petroleum and Minerals | Saudi Arabia
• CIE 410 (Lecture and Lab): Automation Devices and Electronics (2-3-3), Term 222, 231, 232
• CIE 410: Course Coordinator (Term 231)

Tutoring

2019–22 University of the Ryukyus | Japan
• Instructed 15+ Japanese and International postgraduate students to strengthen their knowledge on energy systems at Power and Energy Control Lab (PECL)
• Provided hands-on training to students on programming languages including MATLAB, Simulink, and Python.
• Offered extensive one-on-one guidance to help students develop their academic writing and research skills.

2021-22 Eastern University | Bangladesh
• Aided a group of four students with their senior thesis project, which was to develop, operate, and control hybrid energy systems on Bangladeshi island (online)

2015-17 Asian Institute of Technology | Thailand
•Facilitated group tutoring sessions to assist students who were dealing in power systems areas.

Supervision

2023– Control & Instrumentation Engineering Department, King Fahd University of Petroleum and Minerals | Saudi Arabia
• One Master student (GA+TA supervisor)

ONGOING RESEARCH PROJECTS

• Car Hailing of Electric Vehicles (CHEVs) – AI-based Dispatch Platform for Transport and Electric Services (internal funding by KFUPM, KSA)
• Planning and operation of water-power system considering resilience (applied for **RDI** funding, KSA)

RESEARCH GRANTS

• Intelligent planning and control of urban energy systems with the integration of renewables (JPY**1.5** million)
March 2022- April 2023 (Only 8 persons from Japan in 2021)
Grantor: Exchange Research Grant, Marubun Research Promotion Foundation, Japan
Role: Principle Investigator (PI)
Activities: Grant writing, management, and research

• Resilience-aware Optimal Design and Energy Management Scheme of Multi-energy Microgrids (JPY**0.15** million)
July 2021- December 2021 (Completed)
Grantor: Research Promotion grant, University of the Ryukyus Support Foundation, Japan
Role: PI
Activities: Grant writing, management, and research

• CRRP2019-03SY-Sharifi: Assessment of the Actual and Potential Contributions of Smart City Projects to Climate Resilience in Selected Asia-Pacific Cities. (Completed)
Grantor: Asia-Pacific Network for Global Change Research
Role: Co-PI
Activities: Research (not participated in grant writing and management)

RESEARCH IMPACTS

Google Scholar- Citations: 857, h-index: 17, i10-index: 27
Scopus- Citations: 608, h-index: 15
ResearchGate- Citations: 508, h-index: 13, Research interest score: 486

PUBLICATIONS

Total Peer-reviewed Publications: **44**
International Journal Articles: 30, Conference Proceedings: 13, Book Chapters: 1

Journal Articles

30. Selim, A., El-shimy, M., Amer, G., Ihoume, I., **Masrur, H.**, & Guerrero, J. M. (2024). Hybrid off-grid energy systems optimal sizing with integrated hydrogen storage based on deterministic balance approach. Scientific Reports, 14(6888), 1–19. (Link)

29. Elkholy, M. H., Senjyu, T., Elymany, M., Gamil, M. M., Talaat, M., **Masrur, H.**, Ueda S., & Lotfy, M. E. (2024). Optimal resilient operation and sustainable power management within an autonomous residential microgrid using African vultures optimization algorithm. Renewable Energy, 120247. (Link)

28. **Masrur, H.**, Khaloie, H., Al-Awami, A. T., Ferik, S. E., & Senjyu, T. (2024). Cost-aware modeling and operation of interconnected multi-energy microgrids considering environmental and resilience impact. Applied Energy, 356, 122320 (Link)

27. Huang, Y., Howlader, H. O. R., Hemeida, A. M., Narayanan, K., **Masrur, H.**, Khalid, M., Mikhaylov, A., & Senjyu, T. (2023). A comparative assessment of the power generation via S-shape and M-shape PV system and its impact on a residential consumer. Franklin Open, 100049. (Link)

26. Azim, M. I., Islam, M. T., Rakib, J. H., Islam, M. R., Ali, L., Alzahrani, S., **Masrur, H.**, Muyeen, S. M. (2023). Coalition game theoretic P2P trading in a distribution network integrity-ensured local energy market. Sustainable Energy, Grids and Networks, 101186. (Link)

25. Huang, Y., **Masrur, H.**, Lipu, M.S.H., Howlader, H.O.R., Gamil, M.M., Nakadomari, A., Mandal, P. and Senjyu, T. (2023). Multi-objective optimization of campus microgrid system considering electric vehicle charging load integrated to power grid. Sustainable Cities and Society, 104778. (Link)

24. Irshad, A. S., Ludin, G. A., **Masrur, H.**, Ahmadi, M., Yona, A., Mikhaylov, A., Krishnan, N., Senjyu, T. (2023). Optimization of grid-photovoltaic and battery hybrid system with most technically efficient PV technology after the performance analysis. Renewable Energy, 207, 714–730.(Link)

23. Islam, Md. T., Alam, Md. A., Lipu, M. S. H., Hasan, K., Meraj, S. T., **Masrur, H.**, & Rahman, Md. F. (2023). A Single DC Source Five-Level Switched Capacitor Inverter for Grid-Integrated Solar Photovoltaic System: Modeling and Performance Investigation. Sustainability, 15(10), 8405. (Link)

22. Menesy, A. S., Sultan, H. M., Habiballah, I. O., **Masrur, H.**, Khan, K. R., Khalid, M. (2023). Optimal Configuration of a Hybrid Photovoltaic/Wind Turbine/Biomass/Hydro-Pumped Storage-Based Energy System Using a Heap-Based Optimization Algorithm. Energies, 16(9), 3648. (Link)

21. He, H., Huang, Y., Nakadomari, A., **Masrur, H.**, Krishnan, N., Hemeida, A. M., Mikhaylov, A., Senjyu, T. (2022). Potential and economic viability of green hydrogen production from seawater electrolysis using renewable energy in remote Japanese islands. Renewable Energy, 202, 1436–1447 (Link)

20. Nyam J., **Masrur, H.**, Iqbal A., Rangarajan S. S., Byambaa S., and Senjyu, T. (2022) A control algorithm to increase the efficient operation of wind energy conversion systems under extreme wind conditions. Energy Reports, vol. 8, 1 Nov. 2022, pp. 11429-39 (Link)

19. Chowdhury, T., Chowdhury, H., Bontempi, E., Coccia, M., **Masrur, H.**, Sait, S. M., & Senjyu, T. (2022). Are mega-events super spreaders of infectious diseases similar to COVID-19? A look into Tokyo 2020 Olympics and Paralympics to improve preparedness of next international events. Environmental Science and Pollution Research, 1–11. (Link)

18. **Masrur, H.**, Shafie-Khah, M., Hossain, M. J., & Senjyu, T. (2022). Multi-Energy Microgrids Incorporating EV Integration: Optimal Design and Resilient Operation. IEEE Transactions on Smart Grid, 13(5), 3508–3518. (Link)

17. Chowdhury H., Chowdhury T., Rahman S., **Masrur, H.**, Senjyu T. (2022). A Simulation Study of Resiliency Analysis of the Solar PV Irrigation System against the Grid Outages. Environmental Science and Pollution Research, p. 1-12. (Link)

16. Mehbodniya, A., Paeizi, A., Rezaie, M., Azimian, M., **Masrur, H.**, & Senjyu, T. (2022). Active and Reactive Power Management in the Smart Distribution Network Enriched with Wind Turbines and Photovoltaic Systems. Sustainability, 14(7), 4273. (Link)

15. **Masrur, H.**, Gamil, M. M., Islam, Md. R., Muttaqi, K. M., Lipu, M. S. H., & Senjyu, T. (2022). An Optimized and Outage-resilient Energy Management Framework for Multi-carrier Energy Microgrids Integrating Demand Response. IEEE Transactions on Industry Applications, vol. 58, no. 3, pp. 4171-4180, May-June 2022. (Link)

14. Gamil, M. M., Senjyu, T., **Masrur, H.**, Takahashi H., & Elsayed Lotfy, M. (2022). Controlled V2Gs and Battery Integration into Residential Microgrids: Economic and Environmental Impact. Energy Conversion & Management, 253, 115171. (Link)

13. Miah, Md. S., Hossain Lipu, M. S., Meraj, S. T., Hasan, K., Ansari, S., Jamal, T., **Masrur, H.**, Elavarasan R. M., Hussain, A. (2021). Optimized Energy Management Schemes for Electric Vehicle Applications: A Bibliometric Analysis towards Future Trends. Sustainability, 13(22), 12800. (Link)

12. Konneh, K. V., **Masrur, H.**, Konneh, D. A., & Senjyu, T. (2022). Independent or complementary power system configuration: A decision making approach for sustainable electrification of an urban environment in Sierra Leone. Energy, 239, 122310. (Link)

11. Konneh, K. V., **Masrur, H.**, Othman, M. L., & Senjyu, T. (2022). Performance Assessment of a Hybrid Complementary Power System for Sustainable Electrification: A case study. Sustainable Cities and Society, 76, 103412. (Link)

10. **Masrur, H.**, Senjyu, T., Islam, M. R., Kouzani, A. Z., & Mahmud, M. A. P., 'Resilience-Oriented Dispatch of Microgrids Considering Grid Interruptions,' IEEE Transactions on Applied Superconductivity, vol. 31, no. 8, Nov. 2021, Art no. 5401405. (Link)

9. **Masrur, H.**, Sharifi, A., Islam, Md. R., Hossain, Md. A., & Senjyu, T. (2021). Optimal and economic operation of microgrids to leverage resilience benefits during grid outages. International Journal of Electrical Power & Energy Systems, 132, 107137. (Link)

8. Konneh, K. V., **Masrur, H.**, Othman, M. L., Takahashi, H., Krishna, N., & Senjyu, T. (2021). Multi-Attribute Decision-Making Approach for a Cost-Effective and Sustainable Energy System Considering Weight Assignment Analysis. Sustainability, 13(10), 5615. (Link)

7. Huang, Y., **Masrur, H.**, Shigenobu, R., Hemeida, A. M., Mikhaylov, A., & Senjyu, T. (2021). A Comparative Design of a Campus Microgrid Considering a Multi-Scenario and Multi-Objective Approach. Energies, 14(11), 2853. (Link)

6. Konneh, K. V., **Masrur, H.**, Othman, M. L., Wahab, N. I. A., Hizam, H., Islam, S. Z., Crossley P., & Senjyu, T. (2021). Optimal Design and Performance Analysis of a Hybrid Off-grid Renewable Power System Considering Different Component Scheduling, PV Modules and Solar Tracking Systems. IEEE Access, vol. 9, pp. 64393-64413. (Link)

5. **Masrur, H.**, Konneh, K. V., Ahmadi, M., Khan, K. R., Othman, M. L., & Senjyu, T. (2021). Assessing the Techno-Economic Impact of Derating Factors on Optimally Tilted Grid-Tied Photovoltaic Systems. Energies, 14(4), 1044. (Link)

4. **Masrur, H.**, Howlader, H. O. R., Elsayed Lotfy, M., Khan, K. R., Guerrero, J. M., & Senjyu, T. (2020). Analysis of Techno-Economic-Environmental Suitability of an Isolated Microgrid System Located in a Remote Island of Bangladesh. Sustainability, 12(7), 2880. (Link)

3. **Masrur, H.**, Khan, K. R., Abumelha, W., & Senjyu, T. (2020). Efficient Energy Delivery System of the CHP-PV Based Microgrids with the Economic Feasibility Study. Int. J. Emerging Electr. Power Syst., 21(1). (Link)

2. Susowake, Y., **Masrur, H.**, Yabiku, T., Senjyu, T., Motin Howlader, A., Abdel-Akher, M.,& M. Hemeida, A. (2020). A Multi-Objective Optimization Approach towards a Proposed Smart Apartment with Demand-Response in Japan. Energies, 13(1), 12, 2020.(Link)

1. Khan, K. R., Rahman, M., **Masrur, H.**, & Alam, M. S. (2019). Electric energy exchanges in interconnected regional utilities: A case study for a growing power system. International Journal of Electrical Power & Energy Systems, 107, 715–725. (Link)

Conference Proceedings

13. S. Ueda, N. Krishnan, M. Furukakoi, A. M. Hemeida, **Masrur H.** and T. Senjyu, "Optimal Operation of On-Grid Park & Ride EV Parking Station Considering Dynamic Pricing in Japan," 2023 IEEE Transportation Electrification Conference and Expo, Asia-Pacific (ITEC Asia-Pacific), Chiang Mai, Thailand, 2023, pp. 1-5. (Link)

12. Gamil M. M., **Masrur H.**, Muttaqi K. M., Huang Y., Lotfy M. E., and Senjyu, T. 'Multi-objective Optimal Power Scheduling of a Residential Microgrid Considering V2G and Demand Response Techniques' 2022 IEEE Industry Applications Society Annual Meeting (IAS), 2022, pp. 1-5, Detroit, Michigan, USA. (Link)

11. **Masrur H.**, Islam M. R., Muttaqi K. M., Gamil M. M., Huang Y., and Senjyu, T. "Resilience-aware Optimal Design and Energy Management Scheme of Multi-energy Microgrids." 2021 IEEE Industry Applications Society Annual Meeting (IAS), 2021, pp. 1-5 Vancouver, Canada. (Link)

10. Howlader H. O. R., **Masrur H.**, Islam M. R., Muttaqi K. M., Shigenobu R., and Senjyu, T., "Robust and Optimal Microgrid Management adopting a Virtual Battery System for Unit Commitment Application." 2021 IEEE Industry Applications Society Annual Meeting (IAS), 2021, pp. 1-5 Vancouver, Canada. (Link)

9. Y. Huang, M. M. Gamil, **H. Masrur**, J. Cheng, H. He, and T. Senjyu, 'Optimal Charging and Discharging of Electric Vehicles within Campus Microgrids', 13th IEEE PES Asia-Pacific Power and Energy Engineering Conference (APPEEC), Kerala, India, 2021. (Link)

8. M. F. Ishraque, M. M. Ali, S. Arefin, M. R. Islam, **H. Masrur** , and M. M. Rahman, 'Dispatch Strategy Based Optimized Design of an Off-grid Hybrid Microgrid Using Renewable Sources', 31st Australasian Universities Power Engineering Conference (AUPEC), 2021, pp. 1-6, Perth, Australia. (Link)

7. Arefin and **Masrur** et al., "Power Resilience Enhancement of a PV- Battery-Diesel Microgrid," 2020 International Conference on Smart Grids and Energy Systems (SGES), Perth, Australia, 2020, pp. 860-863. (Link)

6. **H. Masrur**, T. Senjyu, M. R. Islam, A. Z. Kouzani and M. A. P. Mahmud, "Optimal Operation of Resilient Microgrids During Grid Outages," 2020 IEEE International Conference on Applied Superconductivity and Electromagnetic Devices (ASEMD), Tianjin, China, 2020. (Link)

5. **H. Masrur** et al., "Determining Optimal Tilt Angle to Maximize the PV Yield," 2020 IEEE International Conference on Power and Energy (PECon), Penang, Malaysia, 2020, pp. 219-223. (Link)

4. K. Takahashi, **H. Masrur**, A. Nakadomari, K. Narayanan, H. Takahashi, and T. Senjyu, "Optimal Sizing of a Microgrid System with EV Charging Station in Park & Ride Facility," 12th IEEE PES Asia-Pacific Power and Energy Engineering Conference (APPEEC), Nanjing, China, 2020, pp. 1-4.(Link)

3. **H. Masrur**, M. Nimol, M. Faisal, and S. M. G. Mostafa, "Short term wind speed forecasting using Artificial Neural Network: A case study," International Conference on Innovations in Science, Engineering and Technology (ICISET), Dhaka, Bangladesh, 2016, pp. 1-5. (Link)

2. S. M. G. Mostafa, J. G. Singh, **H. Masrur**, and M. S. Ullah, "A prospective model of Bangladesh electricity market," International Conference on Innovations in Science, Engineering and Technology (ICISET), Dhaka, Bangladesh, 2016, pp. 1-5. (Link)

1. **H. Masrur**, A. Ferdoush, and M. G. Rabbani, "Automatic Generation Control of two area power system with optimized gain parameters," International Conference on Electrical Engineering and Information Communication Technology (ICEEICT), Dhaka, Bangladesh, 2015, pp. 1-5. (Link)

Book Chapters

1. **Masrur H.**, Sharifi, A. (2022). Contributions of Smart City Projects to Resilience: Lessons Learned from Case Studies. In: Sharifi, A., Salehi, P. (eds) Resilient Smart Cities. The Urban Book Series. Springer. (Link)

Forthcoming Articles

1. Farhan Mumtaz, Nor Zaihar Yahaya, Sheikh Tanzim Meraj, M.S. Hossain Lipu, Hasan Masrur, and Tariqul Islam " Non-Isolated High Gain Non-Inverting Interleaved DC-DC Converter for Renewable Energy Applications". IEEE Transactions on Industrial Electronics (under review, preprint)

2. Masrur, H. *et al.* "Outage Survivability of Microgrids: From the control, planning and operation perspective" (in preparation for IEEE PES Transactions)

TECHNICAL SKILLS

• Languages: Python, MATLAB

• Modeling & Simulation Software: SIMULINK, EnergyPLUS, HOMERPro, REopt, Etap, Vensim

• Optimization approaches: Pyomo, MILP, PSO and NSGA

• Solver: CPLEX, Gurobi

• Data analysis and Graphing: Pandas, Numpy, Scipy, Matplotlib, Tableau, Orange, OriginPro

• Others: LaTeX, MS Office (Word, Excel, PowerPoint), Reference Management Software (Zotero, Bibtex, and Mendeley)

SCHOLARSHIPS AND AWARDS

Scholarships

2019–22 Japanese Government (MEXT) Scholarship, PhD program, Graduate school of Engineering & Science, University of the Ryukyus, Japan

2015-17 HM Queen (Thailand) Scholarship, Energy Field of Study, Asian Institute of Technology, Thailand

Awards

2022 President's Honorary award, University of the Ryukyus, Japan

2020 QUEST conference travel grant, University of the Ryukyus, Japan (JPY50,000)

2019 Best paper award, IEEE Student Branch, IEEJ Kyushu Section, Okinawa Branch, Japan

2015 'Cum Laude' Honor award, Eastern University, Bangladesh

2014 'Dean's Honor' award, Eastern University, Bangladesh

2009 Education Board Merit Scholarship for H.S.C result, Bangladesh

2007 Education Board Merit Scholarship for S.S.C result, Bangladesh

CONFERENCE ACTIVITY

Conference Papers Presented

2021 Masrur, H. et al. "Resilience-aware Optimal Design and Energy Management Scheme of Multi-energy Microgrids." 2021 IEEE Industry Applications Society Annual Meeting, Vancouver, Canada, Oct 10–14 (online).

2020 Masrur, H. et al. "Optimal Operation of Resilient Microgrids During Grid Outages." 2020 IEEE International Conference on Applied Superconductivity and Electromagnetic Devices (ASEMD), Tianjin, China. Oct 16–18 (online).

2020 Masrur, H. et al. "Determining Optimal Tilt Angle to Maximize the PV Yield." IEEE International Conference on Power and Energy (PECon2020), Penang, Malaysia, Dec 7–8 (online).

SHORT COURSE, WORKSHOP AND TRAINING

2023 Oil sustanability program (OSP), Ministry of Energy, KSA and KFUPM joint workshop on program opportunities in transportation sector

2022 Short course on Low-Carbon Power Systems, Nov 14-18, offered by Melbourne Energy Institute, The University of Melbourne (online)

2022 Lecture on renewable energy-enriched microgrids for Japanese High School students (Sep. 21)

2022 Half-Day Workshop on Electric Vehicle Integration - Impact and Challenges, arranged by Qatar University (online, March 1st)

2020 Workshop on contributions of smart city projects to climate resilience (online, Dec 16-18), organized by NERPS-Hiroshima University and Asia-Pacific Network for Global Change Research (APN) (Link)

2017 Visited Provincial Electricity Authority (PEA) office of Thailand and monitored Thai SCADA system

2016 Visited Electric Vehicle (EV) charging station at PEA office, Thailand. Technology

2015 Attended short course on Smart grid, Microgrids and Integration of Renewables on May - July, 2015 at Asian Institute of Technology (AIT)

MEDIA COVERAGE & INVITED TALKS

2022 Announcement of 25th Marubun Exchange Research Grant, March 17 (Link)

2020 "The role of smart cities to increase resiliency: Lesson learned from case studies" Workshop on contributions of smart city projects to climate resilience, Hiroshima University, Japan. Dec 17. (Link)

2020 *Scientific Bangladesh* "PhD Interview" Dec 12. Available here

PROFESSIONAL SERVICE

Academic Journal Editorial Service

• Guest Editor: Role of Renewable Energy Sources and Technologies towards Low Carbon Energy Transition, Sustainability, MDPI (Link)
• Guest Editor: Techno-economic Planning for Resilient Energy Systems, Science Progress, Sage Publishing. (Link)
• Review Editor: Speciality section in Smart Grids, Frontiers in Energy Research. (Link)

Technical Reviewer for Journals

IEEE: IEEE Transactions on Smart Grid, IEEE Transactions on Energy Markets, Policy and Regulation, IEEE Transactions on Applied Superconductivity, IEEE Access
Elsevier: International Journal of Power and Energy Systems, Energy Reports, Sustainable Cities and Society, Applied Energy, Renewable Energy, Energy, SEGAN, SETA, Heliyon
Oxford: Clean Energy
MDPI: Sustainability, Energies
Taylor and Francis: Cogent Engineering, Sustainable and Resilient Infrastructure
Springer: Arabian Journal for Science and Engineering
Others: International Journal of Renewable Energy Research, International Journal of Electrical and Computer Engineering

Technical Reviewer for Conferences

STI2022, ICISET 2022, ICCCA 2021, IAS AM 2021 2022, GUCON 2021, ASEMD 2020

Invited Chair

• Technical Program Committee member: STI 2022-2024 (conference)
• Session Chair: IES 2019 Symposium by Ryukyus IET On Campus Society, Japan

MEMBERSHIPS

• Member, IEEE
• Power & Energy Society (PES) Member, IEEE
• Member, Institute of Engineers Bangladesh (IEB)
• Volunteer, IEEE Young Professionals (YP)
• Former Member, IEEE Student Branch, University of the Ryukyus

REFERENCES

Dr. Sami El Ferik
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