

CURRICULUM VITAE

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Areas of Research

Integrated energy system optimization and dispatch; Power system operations considering high penetration of renewable and distributed generation; Combined cooling heating and power

Education

- **B.S. (2014 - 2018)**
 - *Major: Electrical Engineering and Automation*
 - *School of Information and Electrical Engineering, Northeast Normal University (211 project)*
- **Ph.D. (2018 – 2023)**
 - *Successive Master-doctor Program*
 - *Major: Electrical Engineering*
 - *College of Electrical and Information Engineering, Hunan University (211/985 project)*
 - *Supervisor: Dr. Prof. Jiazhu Xu*

Programs

- **Research on Optimal Allocation and Evaluation Method of Urban Integrated Energy System**
 - *Time: 2020-2021*
 - *Source: State Grid Hunan Electric Power Company Limited*
- **Research on Coordinated Regulation of Source-grid-load-storage and Business Model of Regional Power Grid**
 - *Time: 2020-2021*
 - *Source: State Grid Hunan Electric Power Company Limited*
- **Research on Dynamic Voltage Control Technology of Multi-stream Electric Locomotive Traction Power Supply System Switching Process**
 - *Time: 2020-2023*
 - *Source: National Natural Science Foundation of China*
- **Research on Multi-Converter Grid-Connected and Multi-Voltage DC Distribution System Optimized Operation Control**
 - *Time: 2018-2021*
 - *Source: National Key R&D Program*

Paper list

1. **Min Wu**, Jiazhu Xu*, Linjun Zeng, et al. Two-stage robust optimization model for park integrated energy system based on dynamic programming. *Applied Energy* 2022;308:118249. <https://doi.org/10.1016/j.apenergy.2021.118249>.
2. **Min Wu**, Jiazhu Xu*, Zhenglu Shi. Low carbon economic dispatch of integrated energy system considering extended electric heating demand response. *Energy* 2023;278:127902. <https://doi.org/10.1016/j.energy.2023.127902>.
3. **Min Wu**, Jiazhu Xu*, Yun Li, et al. Low carbon economic dispatch of integrated energy systems considering life cycle assessment and risk cost. *International Journal of Electrical Power & Energy Systems*. 2023;153:109287. <https://doi.org/10.1016/j.ijepes.2023.109287>.
4. **Min Wu**, Jiazhu Xu*, Linjun Zeng, et al. Optimal P2G configuration of park integrated energy system considering multiple uncertainties. *2021 International Conference on Power System Technology (POWERCON)*, 2021, p. 420–5. <https://doi.org/10.1109/POWERCON53785.2021.9697576>.
5. Linjun Zeng, Jiazhu Xu*, **Min Wu**, et al. Day-ahead interval optimization for CCHP system considering uncertainty of wind power and PV. *International Journal of Electrical Power & Energy Systems* 2022;138:107895. <https://doi.org/10.1016/j.ijepes.2021.107895>.
6. Zhuohan Jiang*, Zhigang Liu, Jiazhu Xu, **Min Wu**, et al. An integrated energy system evaluation method based on FAHP-EWM-TOPSIS. *2021 IEEE 4th International Electrical and Energy Conference (CIEEC)*, 2021, p. 1–6. <https://doi.org/10.1109/CIEEC50170.2021.9510670>.
7. Jiazhu Xu*, Muyuan Li, Qing Chen, **Min Wu**, Evaluation method of DG black start of distribution network, *2020 5th Asia Conference on Power and Electrical Engineering (ACPEE)*, 2020, p. 2141–7. <https://doi.org/10.1109/ACPEE48638.2020.9136356>.
8. Jiazhu Xu*, GuoQing Tong, Qing Chen, **Min Wu**, A new evaluation method of the fault recovery scheme for medium-low voltage DC distribution network, *2020 5th Asia Conference on Power and Electrical Engineering (ACPEE)*, 2020, p. 1730–5. <https://doi.org/10.1109/ACPEE48638.2020.9136433>.
9. Linjun Zeng, Jiazhu Xu*, Yuxing Liu, Chang Li, **Min Wu**, et al. Stochastic economic dispatch strategy based on quantile regression. *International Journal of Electrical Power & Energy Systems* 2022;134:107363. <https://doi.org/10.1016/j.ijepes.2021.107363>.
10. Chang Li, Yijia Cao, Yaqian Yang*, Jiazhu Xu, **Min Wu**, et al. New framework of RoCoF-FD for wideband stability evaluation in renewable energy generators With Virtual Impedance Control. *IEEE Transactions on Smart Grid* 2022;13:3570–81. <https://doi.org/10.1109/TSG.2022.3175896>.
11. **Min Wu***, Zhuo Wu, Zhenglu Shi. Low carbon economic dispatch of integrated energy systems considering utilization of hydrogen and oxygen energy. *International Journal of Electrical Power & Energy Systems*. (Under review)

Patent list

1. Jiazhu Xu, **Min Wu**, Linjun Zeng, Yun Li. Dynamic planning methods, devices and media for integrated energy systems with multiple uncertainties. China Patent. Patent No. CN113988714A,2021-11-26.
2. Jiazhu Xu, **Min Wu**, Guoqing Tong, Weiming Zhang. A fault recovery reconfiguration method for DC distribution network. China Patent. Patent No. CN113239622A,2021-08-10.