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Individual resume	Yang Bo, he was awarded a full scholarship by the China Scholarship Council (CSC) to pursue a doctoral degree in the Department of Electrical and Electronic Engineering at the University of Liverpool, UK In 2011,. He received his Ph.D. in December 2015. In August 2017, he was promoted to associate professor with special approval, and in October 2020, he was promoted to professor with special approval. In December 2022, he was appointed as a doctoral supervisor. From October 2023 to January 2024, he was granted a full scholarship by the China Scholarship Council (CSC) to visit the University of Liverpool as a visiting scholar. He has published two Chinese academic monographs and over 200 SCI journal papers (including 11 ESI papers and 3 hot papers), as well as over 40 EI journal papers. He has led 37 research projects, including two National Natural Science Foundation of China projects. He is an editor of three SCI journals, a member of the editorial board of two EI journals, a member of the editorial board of one Chinese core journal, a young member of the editorial board of two EI journals, a young member of the editorial board of five Chinese core journals, and a member of the editorial board of one Chinese core technology journal. He has also served as the editor of over twenty special issues of SCI, EI, and Chinese core journals.
The title of the report	Optimization of Renewable Energy Systems based on Artificial Intelligence

Abstract	With the acceleration of global energy transition, the efficient utilization of renewable energy systems has become crucial. This research focuses on the optimization of the entire life cycle of renewable energy systems. Firstly, it reviews the background and challenges of its development, and then conducts an analysis from four dimensions: assessment/prediction, operation, planning, and scheduling. It enhances the system's state perception through optimal assessment/prediction technology, ensures real-time stability with optimal operation strategies, optimizes layout and capacity configuration through optimal planning methods, and realizes multi-energy coordination and consumption through optimal scheduling plans. Based on existing research results, it looks forward to future development trends in intelligentization and multi-scenario coupling, providing theoretical support for the efficient, reliable, and economic operation of renewable energy systems.