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Ph.D. Candidate Seeking Opportunities
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Paper Title : Operating BESS as VPL to Simultaneously Minimize Curtailment, Mitigate Congestion, and Deliver FCR in High-RES Power Systems

Bio:

Ehsan Shayani

M.Sc. in Electrical Engineering | Expert in Renewable Energy Systems Integration | Ph.D. Candidate Seeking Opportunities

Ehsan Shayani is a senior Electrical Engineer with over 18 years of experience in the energy sector, specializing in the design, development, and execution of complex power infrastructure projects. He holds a bachelor's and master's degree in electrical engineering (Power Systems), as well as an additional Master's in Renewable Energy Systems. He is currently seeking a Ph.D. position focused on energy and power systems.

Throughout his career, Ehsan has led high-impact initiatives across industrial and utility-scale environments, advancing reliable and efficient power delivery through technical innovation. His leadership spans grid modernization, infrastructure expansion, operational optimization, and energy transition strategies.

His current research and professional focus center on integrating renewable energy technologies into conventional grids. He emphasizes virtual power system concepts such as Virtual Power Plants (VPP) and Virtual Transmission Lines (VTL), alongside advanced energy management systems like Battery Energy Storage Systems (BESS). Ehsan's work bridges engineering precision with economic feasibility, driving sustainable energy transitions through smart system design and stakeholder-aligned project delivery.