

This letter is a proof of concept for quantum power flow (QPF) algorithms which underpin various unprecedentedly efficient power system analytics exploiting quantum computing. Our contributions are three-fold: 1) Establish a quantum-state-based fast decoupled model empowered by Hermitian and constant Jacobian matrices; 2) Devise an enhanced Harrow-Hassidim-Lloyd ...

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Unfortunately, power system researchers have not yet been able to convincingly demonstrate a quantum advantage in solving large-scale power system problems mainly because we are in the noisy ...

However the research in this direction is still in nascent stages. This paper serves as a primer for the reader by emphasizing the importance of research on quantum solutions for power system application and providing a comprehensive review on existing state-of-the art quantum algorithms for various power system applications.

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Electric power system decarbonization is a core component of the global transition to net zero, requiring major infrastructure investments in renewable generation, grid energy storage, and transmission infrastructure, along with the rapid adoption of electric transport and heating. 1 At the same time, power systems are being digitalized, with information and ...

Optimized power system planning and operation are increasingly critical due to the net-zero transition. Following recent breakthroughs, quantum computing is reaching a level of maturity where, for the first time, it offers a practical advantage over classical computing for specific applications. In this review, we identify significant and wide-ranging opportunities for ...

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Quantum Power Flow Fei Feng, Student Member, IEEE, Yifan Zhou, Member, IEEE and Peng Zhang, Senior Member, IEEE Abstract--This letter is a proof of concept for quantum power flow (QPF) algorithms which underpin various unprecedentedly efficient power system analytics exploiting quantum computing. Our contributions are three-

Researchers from North Carolina A& T State University, Pacific Northwest National Laboratories, and Sandia National Laboratories are using quantum computing to solve complex equations in power system dynamics. The team converts high dimensional nonlinear differential-algebraic equations, which model power system dynamics, into ordinary differential equations. These ...

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mathematical model of power systems dynamics and the classical numerical methods for solving them. Section 3 provides quantum computing fundamental backgrounds, such as qubits, vector representation, and the time evolution of the quantum state, and discusses the quantum computing algorithm solving power system's DAEs.



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Reviews of early work on quantum computing for power systems discuss optimization alongside analytics, simulation, and communication applications. However, for optimization, these reviews have primarily focused on initial work applying ... variables due to fixed costs and limited sizing options. This gives these problems a ...

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Secondly, we review the existing literature on the applications of quantum computing in power systems, put forward our critical thinking about the literature, and give the challenges and prospects for the future work about the applications of quantum computing in power systems. This paper will equip you with the basics that you will need for ...

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