Review of: "Internet of Things in Smart Grid: A Comprehensive Review of Opportunities, Trends, and Challenges"

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Potential competing interests: No potential competing interests to declare.

This review paper emphasizes the significant research works that concentrate on the application of IoT to smart grids and summarizes the current work done. The paper also discusses the various challenges and opportunities in smart grids while implementing the IoT, addressing the pioneering methods used in IoT along with their relevant application in different fields. The article is written well, but needs improvement. My comments are given below.

Review Comments:

Topic is interesting, but needs improvement:

1. The authors should carefully proofread this paper and correct all the typos in the revision.
2. Authors should rewrite the abstract with more technical detail and contribution.
3. Motivations of the paper are not clear; could authors add motivation in the introduction section?
4. The quality of figures is low and needs improvement.
5. Authors need to discuss figure 4 in detail.
6. Authors need to discuss the Challenges Facing IoT in Smart Grids in detail.
7. Role of deep learning and cloud deployment is not clear; need to discuss in detail.
8. The mentioned contributions are not convincing. Most importantly, the structure of the introduction section is very poor.
9. What is the limitation of the proposed work? Add it in the conclusion.
10. Literature needs to be improved by incorporating some quality papers like

i. A review of Internet of Things: qualifying technologies and boundless horizon
ii. Data-Driven Stochastic Game Network-based Smart Home Monitoring System using IoT-enabled Edge Computing Environments
iii. AI-empowered Fog/Edge Resource Management for IoT Applications: A Comprehensive Review, Research Challenges and Future Perspectives
iv. Adversarial ML-Based Secured Cloud Architecture for Consumer Internet of Things for Smart Healthcare
v. Secure framework for IoT applications using Deep Learning in Fog Computing