Recommended Revisions:

Reviewer 1:

Comments: The paper describes about a reinforcement learning environment for power system studies. The structure and flow of the paper is good. Few comments to strengthen the paper:

1. Fig. 3, the structure of Deep RL agent may be descried in the same fig or a separate figure

Re:

2. For the load-frequency use case, a Table with the performance comparison between different RL algorithms would be highly appreciated.

Re: We appreciate the reviewer’s great suggestions. Comparing different RL algorithms is of great important. However, due to the page limit, we are unable to have a comprehensive discussion on this and will add some comparison benchmark in the manual of Andes\_gym.

Reviewer 2:

Comments: The authors proposed a python-based environment called Andes\_gym, by combining Andes simulator and OpenAI Gym, to achieve reinforce learning on power system using fully python environment.

1. The Github link for the proposed environment cannot be opened.

Re:

2. The learning\_start parameters have been tested using 0, 200 and 500. The authors found 200 is the best among these three parameter values. It is still unclear the trend - how the performance varies as of the learning\_start value varies? Is 200 close to the optimal value? More experiments/discussion needed.

Re: We appreciate the reviewer’s great suggestion. We have conducted three more tests with 100, 300, and 400 delayed learning. As expected by the reviewer, we found out that when learning\_start=100, the performance is the best. We have revised Table I, Fig. 5, and related discussion in the revised paper.

Reviewer 3:

Comments: Great article which introduces a very useful tool for the community. The authors also demonstrate the efficacy of their proposed framework on a small grid instance. One issue in the article is that the link to the repository is not working. Please fix that and resubmit.

Re: