The paper, titled "**Tip Speed Ratio Optimization: More Energy Production with Reduced Rotor Speed**," analyses the control of Tip Speed Ratio of the turbines in the windfarm to optimize the AEP of a wind farm. Though this paper represents new strategy, I believe there are a few **major issues** as mentioned specific comments that should be the corrected to meet the quality standards of the journal.

Specific Comments

1. Tip speed ratio is defined as"

$$\lambda = \frac{\Omega R}{U_\infty}$$

   I believe the authors intended to control the tip speed ratio solely through inflow wind velocity. But, because it is dependent on nature, how can inflow wind velocity be controlled in real time? Also, because the rotational speed of a wind turbine is determined by the inflow wind, I believe it might be difficult to control. In other words, I would like Author to explain in detail how TSR can be controlled or varied.
2. The selection of the Jensen wake model by the authors is inappropriate from a research standpoint. Even though industries may utilize the Jensen model, it is an outdated model with a hat-shaped velocity profile. Numerous researchers have published articles describing the Jensen model's inaccuracy. There are a variety of Gaussian-shaped wake velocity models, such as Larsen and Ishihara, that may be close to reality. Therefore, the author must provide additional justification for their selection of the Jensen model than the concept of widespread usage.
3. Authors need to rephase this line in Abstract "This strategy also decreased the farm's overall TSR by 8%, leading to several structural and environmental benefits." Because as explained in first comment for farm TSR can't be computed it can be computed only for turbines in a wind farm.
4. On page 1, Line 20, "Suppose high-speed, undisturbed wind enters a wind farm's front-row wind turbine." Is incomplete as a sentence, so author's need to rephrase by integrating with the following line, so that this sentence will be complete.
5. On Page 3, Line 70, provide or place the reference number next to Van Dijk et al.
6. On Page 3, Line 57, can authors explain this line "However, AEP is what really matters because the plant owners sell energy (not power) to the consumers" are authors coming to say owners don't sell the power produced in the wind farm? I request authors to explain the term energy used in this sentence.