

Reviewer's comments:

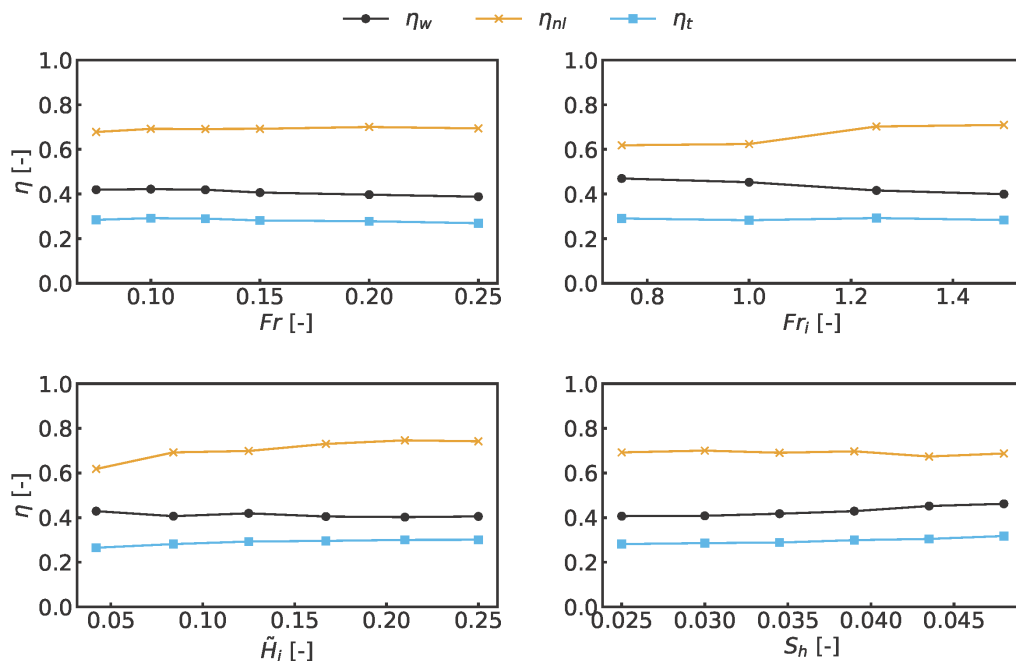
The authors addressed my comments and questions. That said, I think before publication a couple potential issues with the new section 4.2.2 should be addressed.

- (1) On line 700, the "f" should be dropped from the subscript in  $\eta_{wf}$  so that it is just  $\eta_w$ --like it appears in the rest of the section.

This is fixed in the revised manuscript.

- (2) I think there is something wrong with the  $\eta_w$  values in Figure 17 (and in turn the  $\eta_t$  values). The  $\eta_w$  values are just too low (below 0.1). If I estimate  $\eta_w$  from power values approximated from Figure 16a, I come up with an  $\eta_w$  (wake efficiency) of around 0.38. (My estimate assumes the average power of the first row turbines is 7 MW and the average power of the remaining turbines is 2.2 MW.)

The reviewer has rightly spotted this mistake, which we have corrected, as seen in the updated figure 17 that is given below. The mistake in wake and total efficiency was dividing the sum of row-averaged power by 50 turbines instead of 10 rows. Thus, both wake and total efficiencies were mistakenly scaled down by a factor of 5.



- (3) One more (very) small thing: The "disk" in actuator disk is spelled with a "k" in the abstract and with a "c" in the rest of manuscript.

We changed "disk" to "disc" throughout the manuscript.