

Interactive comment on “Top Level Rotor Optimisations based on Actuator Disc Theory” by Peter Jamieson

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Thank you for your comments. I will respond regarding derivation of Equation (10) with a few lines of introduction which should clarify the derivation "The power produced by the primary (VAWT) rotor is $P = 0.5U^3 \pi R^2 L C_P$ and the total power extracted by n secondary rotors is $p = np(n) = P(1-a)$. For each secondary rotor, $p(n) = 0.5 \pi R(n)^3 \pi \times r(n)^2 \times 4a(1-a)$. Hence the ratio of radius of one of n secondary rotors to that of the primary rotor can be expressed as; " Eq 10 follows. Here I have bracketed some characters which will appear as subscripts in the text proper.

Interactive comment on Wind Energ. Sci. Discuss., <https://doi.org/10.5194/wes-2019-63>, 2019.