5<sup>th</sup> International Symposium of Gunma University Medical Innovation and 9<sup>th</sup> International Conference on Advanced Micro-Device Engineering (**GUMI&AMDE 2018**)

## Numerical simulation for characteristic analysis of vertical axis wind turbine

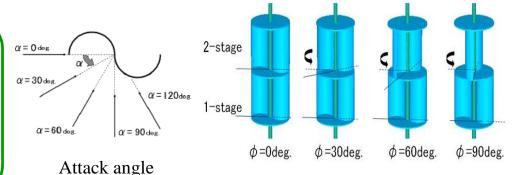
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## Research Objective

-0.1

The vertical axis type is stable because it can put the generator etc at the bottom of the wind turbine, and it is considered to be suitable for installation in an unstable place like offshore. We tried to fine a optimum shape.



Define of phase (2-stages degree)

## Result Ø =30deg 0.6 0.5 Stage 1 Stage 2 Sum

Attack angle [deg.]

140

