

## Control for Power Converter of Small-scale Switched Reluctance Wind Power Generator

In this project, to control the switched reluctance generator a set of control schemes are proposed for small-scale wind power generation system, which is integrated with energy storage system. Considering the possibility of off-grid operation of small-scale wind power generation systems in the areas where the grid is weak or even uncovered, the proposed control scheme increases the consideration of dynamic changes in load and energy storage unit. To improve the utilization efficiency of small-scale wind power generation, a step control scheme is proposed combining maximum power tracking control with power balance control. The effectiveness of the proposed system is verified by simulation in MATLAB/SIMULINK.

**Domain:** Power Systems solar Power Generation

**Technology:** Electrical