CHAPTER 8

FUTURE WORK

Various studies are carried out by considering various issues related with interfacing of large scale farms. But the work can further be extended to carry out the following studies.

1) Saturation effects should be included in the induction generator and the transformer models.

2) A detailed PWM voltage source converter model with high-frequency switches should be implemented in the DFIG wind power generation system. It might provide more accurate transient responses for grid-connected wind turbines considering the overload of power converter with DFIG.

3) Effect of tower shadow, three dimensional wind simulation, and dynamic description of aerodynamic conversion or an improvement of the drive train model should be considered.

4) To develop an integrated design of an offshore wind farm with an interconnection of series multi terminal HVDC link having current source inverters (CSI) technology.