

Title: Wind Generator Concept Study at ABB USCRC

EPES Seminar 1/18/2011

Abstract: In this presentation, the speaker will share her experience of a 3-month internship at ABB. First, the basic information of ABB, such as its businesses, its products and its geographical coverage will be presented. The group structure of ABB USCRC will also be introduced. Next, the job responsibility of the intern position will be described, including an overview of the wind turbine manufacturers in the existing market, as well as the characteristics and requirements of wind generators. Then the main dimensions and sizes of induction machines provided by ABB will be introduced, and based on the database of induction machines, the dimensions and parameters of PM wind generators will be discussed. Finally, the study results will be provided and discussed. The experiences gained and the lessons learned during the internship will be discussed.

Brief biography: Yanni Li, currently a Ph.D. student in electrical engineering at Iowa State University, has just experienced an internship at ABB USCRC from September to December 2010. She received the B.S. and M.S. degree in electrical engineering from Zhejiang University, China, in 2006 and 2008 respectively. Her main areas of interest are electric machine modeling, simulation and design.

