



**Happy Primita
NOVANDA**

**Home Country
Indonesia**

**Degree
PhD in Electrical and
Electronic
Engineering**

**Expertise
Electronics and
Electrical
Engineering**

**Research Focus
Power Quality
Monitoring in Wind
Farms**

**Host University
University of
Manchester,
United Kingdom**

**Fellowship Awarded
2008**

Happy Primita Novanda is a lecturer at the University of Indonesia. She has two older brothers and says that although her family had expected her to become a doctor or to go into one of the pure science fields, they nevertheless supported her decision to pursue a career in electrical engineering.

Happy obtained her first degree in electrical engineering in 2006 at the University of Indonesia, majoring in electric power. She obtained her master's degree in technology management at The University of New South Wales in Australia. Technology management is about how to profit from research findings. This degree taught her that while it is important to conduct research in areas of personal interest, scientists must also think about whether their research will be useful in the future, and whether it will have a positive impact on their communities.

Her PhD research focuses on the integration of intelligent network devices to control electric power in wind farms. Because Indonesia still uses non-renewable resources to generate electrical energy, she feels that it is important to develop new sources of electricity in her home country, but the difficulty of maintaining quality of electric power and of reducing losses during distribution through Indonesia's power networks is a recurring problem.

Happy's work in developing more accurate methods of monitoring power quality will help improve the consistency of electric power generation in wind farms. Lack of power quality, particularly in wind energy power generation, may cause unwanted distortion. Her work in monitoring power quality in wind farms is important because delivering high-quality electric power helps ensure that equipment will operate within its specifications and be reliable.

After completing her PhD, Happy plans to continue teaching in the Faculty of Engineering at the University of Indonesia.