



**Calhoun: The NPS Institutional Archive**  
**DSpace Repository**

---

Energy Academic Group

Energy Academic Group Publications

---

2014

# Wind Power Electric Drive System

Oriti, Giovanna

---

<http://hdl.handle.net/10945/43347>

*Downloaded from NPS Archive: Calhoun*



Calhoun is a project of the Dudley Knox Library at NPS, furthering the precepts and goals of open government and government transparency. All information contained herein has been approved for release by the NPS Public Affairs Officer.

**Dudley Knox Library / Naval Postgraduate School**  
**411 Dyer Road / 1 University Circle**  
**Monterey, California USA 93943**

<http://www.nps.edu/library>

# ENERGY ACADEMIC GROUP

Energy Goals Academics Executive Ed Research Faculty Seminar Resources

## Science and Technology Projects

NPS Energy Academic Group > Research

### WIND POWER ELECTRIC DRIVE SYSTEM

— RESEARCH PROJECTS —

#### Dr. Giovanna Oriti

[goriti@nps.edu](mailto:goriti@nps.edu)

#### Objectives

- Educational laboratories that can be used by resident and distance learning (DL) students.
- To provide a platform for experimental validation of theses and research activities related to wind power generation and grid interface.

#### Background

The doubly fed induction machine (DFIM) drive is mature technology widely used for wind power generation. Features significant de-rating of the bi-directional power converter compared to permanent magnet motor drives.

#### Intended Applications and Intended Customers

Rapid prototyping made possible by the use of the student design center (SDC)

#### Remote Operation

- User interface accessible through standard web browsers. User does not need administrator rights to operate lab
- All instructions posted on the lab webpage.
- Developed for use by distance learning students but also used by resident students for research

#### Funding and Collaborations

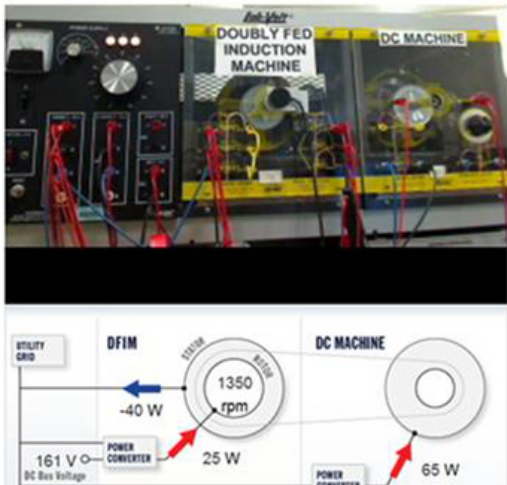
Funded by NPS ECE department and the Center for Educational Design, Development, and Distribution (CED3). DL lab web interface developed in collaboration with CED3.

**View Other Research Projects:**

< 1 ... 9 10 11 ... 13 >

[Return to S&T Home](#)

Live Webcam of Lab Setup



Oscilloscope

