

## RENA KUWAHATA (MSc)

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### Research Engineer

Energynautics GmbH

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Languages: English, Spanish, Japanese



### WORK EXPERIENCE

#### in Germany, Mexico, Australia, Japan

since 01/2010      Research Engineer at Energynautics GmbH, a Germany-based research and consulting company in the area of renewable and distributed generation

11/2007 – 08/2008      Volunteer for Sustainable Development Projects, Visión Energética, Comisión Nacional de Áreas Naturales Protegidas, Quintanaroo, Mexico

- Aiding with the design and installation of off-grid solar PV and energy management systems
- Facilitating capacity building activities in environmental protection, sustainable development and eco-tourism in small communities
- Teaching English in a small community with specialised language skills for the development of local eco-tourism

since 03/2005      Freelance translator, Goldcoast Productions, Japan

11/2003 – 06/2006      Support Engineer, National Electricity Market Management, Australia

- Ensuring the security of supply and stable operation of the national electricity grid through assessments of the capability and performance based on power system simulations

- 11/2002 - 02/2003 Internship, Victorian Energy Networks Corporation, Melbourne, Australia
- Performing fault studies and three-phase modelling of power systems

## EDUCATION

- 2008 – 2010 Triple Master in Management and Engineering of Environment and Energy:
- KTH Royal Institute of Technology, Sweden: Sustainable Energy Engineering and Climate Change Policies
- École des Mines de Nantes, France: Environmental Engineering
- Universidad Politécnica de Madrid, Spain: Project Management and Managerial Accounting
- 2006 Graduate Certificate in Economics, University of Queensland, Australia, specialising in Environmental Economics and Macroeconomics
- 1996 - 2003 Bachelor degree with honours in Electrical & Power Systems Engineering and Bachelor degree in Arts (Spanish, Japanese and Chinese) from Monash University, Australia

## PUBLICATIONS

### Contribution to a book

Kuwahata, R.; Ackermann, T.: **“Encyclopaedia of Sustainability Science and Technology”**, Chapter on: **“Current Status of Wind Power Worldwide”**, Wiley and Sons, April 2012.

### Reports

Ackermann, T.; Kuwahata, R.: **“Lessons learned from international Wind Integration Studies - AEMO Wind Integration WP4(A)”**, Langen, Germany, December 2011.

Tröster, E.; Kuwahata, R.; Ackermann, T.: **“European Grid Study 2030/2050”**, Langen, Germany, January 2011.

**Scientific article with review**

Kuwahata, R.; Rodríguez Monroy, C.: **“Market stimulation of renewable-based power generation in Australia”**, Renewable and Sustainable Energy Reviews, 2011, Vol. 15, Issue 1, Pages 534-543, January 2011.

**Conference paper with review**

Tröster, E., Kuwahata, R., Ackermann, T.: **“The Role of Wind Power in the Future European Power System and its Impact on Grid Expansion”** presented at Ninth International Workshop on Large-Scale Integration of Wind Power and Transmission Networks for Offshore Power Plants”, Québec City, Canada, 18-19 October 2010.

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