

## CV – OLE-MORTEN MIDTGÅRD

Updated September 2017



### Personal details

Date of Birth: 20 March 1967  
Marital Status: Married  
Children: 2 (6 and 10 years)  
Nationality: Norwegian (born in Tromsø, Norway)  
Place of Residence: Trondheim, Norway  
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### Present position

2017- Head of Department, Department of Electric Power Engineering, Norwegian University of Science and Technology, Trondheim, Norway  
2012- Professor, Department of Electric Power Engineering, Norwegian University of Science and Technology, Trondheim, Norway  
Advisor to SINTEF Energy Research since 2015  
Research interests in broad terms: Smart Grid, End Use of Photovoltaic Technology, Microgrids, Power Electronics, Electromagnetic Modelling and Computations  
Some highlights: Have acquired 10 MNOK KPN-project on High Performance Power Electronics, with 6 industry partners, and 2 PhD-students; Have been involved in FME CINELDI from the start and contributed to the successful application; Have developed a new course in Design and Operation of Smart Grid Power Systems for 4<sup>th</sup> year students, which has now been given 5 times.

### University education

1994-1997 Dr.ing. (PhD) in Electric Power Engineering, Norwegian University of Science and Technology, Trondheim, Norway (Dr.ing. Thesis: Construction and assessment of hierarchal edge elements for three-dimensional computations of eddy currents.)  
1987-1992 Sivilingeniør (Master's degree) in Electric Power Engineering, Norwegian Institute of Technology, Trondheim, Norway (Diploma Thesis: Design of a New LHC Lattice Quadrupole Magnet.)

### Memberships in professional associations

NTVA – Norges Tekniske Vitenskapsakademi (Norwegian Academy of Technological Sciences), elected member  
Agder Vitenskapsakademi (Agder Academy of Sciences and Letters), elected member  
Tekna (The Norwegian Society of Graduate Technical and Scientific Professionals)  
IEEE (The Institute of Electrical and Electronics Engineers)  
Norwegian Solar Energy Society, member of the board in Trøndelag section  
NEF (The Norwegian Electrotechnical Society)

### Other positions held after completed PhD

2004- Professor (20% from 2012), University of Agder (Agder University College until 2007), Faculty of Engineering and Science, Grimstad, Norway  
Elected member of the board of the university, 2007-2011 (deputy, 2007-2010)  
Elected member of the board of the Faculty of Engineering and Science, 2007-2011  
Conceived and developed the idea of transforming the Bachelor's program in "Energy and Electric Power Engineering" to "Renewable Energy", and got it implemented together with colleagues at the university. This was a great success, and turned out to be an important strategic decision at a critical crossroad for the program, as it prepared the way for establishing study programs also on higher levels.  
Conceived and developed the idea of how to establish University of Agder's Master's program in Renewable Energy, by utilizing synergies with the already established program in Mechatronics. Got the idea implemented together with colleagues at the university.  
Conceived, got funded, and managed the 8 MNOK project "End Use of Photovoltaic Technology in Norway", which led to the establishment of Agder Photovoltaic Laboratory and

the Photovoltaic Group, and PhD-level research activity with several important spin-off effects; such as new projects, and the establishment of Renewable Energy as an area in the university's portfolio of PhD-programs.

Developed and taught several courses on all levels of study.

- 2011-2012 Member of the board, Teknova AS, Kristiansand, Norway
- 2009-2013 Professor II (20 %), Telemark University College, Faculty of Technology, Porsgrunn, Norway  
Teaching and strategy
- 2003-2004 Senior Engineer, Magtech AS, Moss, Norway  
Conceptual analyses of the Magtech controllable inductor and its various possible applications, some of which were patented. Developed the concept behind the company's power supply for an electrostatic coalescer together with Bjørnar Johansen (patent).
- 1998-2003 Senior Research Scientist, ABB, Norway  
Project management, 1 year as deputy research manager, various R&D projects: Computational studies of industry transformer shielding strategies and of a high voltage wet (subsea) mateable connector; Involved in ABB's Powerformer-project (patent), and project leader for the "Norwegian part" of the project; Study of electrostatic coalescer technology (patents); Concept studies of MEMS-technology (patent).

#### **Scientific papers, patents, and technical reports for industry**

Most of my scientific publications (conference and journal papers) are registered in [CRISTIN](#). Besides, I am the co-inventor of 9 patents from industry and author of 9 technical reports from ABB and Magtech.