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Centre for Energy Efficient systems

FP7 Maritime Transport Brokerage Event 2010 London

By Professor Sarath B Tennakoon
Director of the Centre for Energy Efficient Systems
Staffordshire University

11.00 -12.30 Thursday 02nd September 2010
BIS Conference Centre
1 Victoria Street
London

Centre for Energy Efficient Systems: Expertise

- Power Electronic Systems and Devices
 - Control of Generators and Machine Drives
- Power Generation, Transmission and Distribution
- Grid Integration of Renewable Energy Systems
- Medical Technologies
- Renewable Energy, Wind, Biomass. Solar etc
 - Computational Fluid Dynamics
 - Energy management, Energy efficiency
- Thin Film Technologies, solar cells

Centre for Energy Efficient Systems: Expertise

- Design Technologies
- Mechanical Systems
- Energy Storage systems (Supercapacitors)
- Thermoelectric Energy

Centre for Energy Efficient Systems: Example projects



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- Optimisation of fully fed converters for Off Shore Wind Energy applications (CONVERTEAM)
- Doubly fed Induction generator based converters for wind energy systems (CONVERTEAM)
- Novel Voltage source converters for power generation and Transmission(Areva T & D Technology Centre _EPSRC)
- Series operation of IGBTs (Areva Technology Centre)



Possible Contribution to

Centre for Energy Efficient systems

- Plural-fractioning of the on board energy generation system –Bologna - Claudio Rossi
- ECODIESEL Belarusian NTU – G Kukharonak
- SHIPDAN –Ship Design Group - Ionell CHIRICA