Wind Energy

(Certificate of Attendance)

30 July – 4 August 2018
Sustainability Institute, Lynedoch, Stellenbosch

Synopsis

This module deals with the harvesting of energy from wind. It addresses the availability of the resources, the types of systems and machines, their capabilities and limitations, the processes of setting up such systems and their associated costs and environmental impacts.

Wind Power

Brief history, current state of industry and industry drivers. Predominant technologies and trends, theory of operation, electro-mechanical and aerodynamic principles. Fundamentals of power quality and grid integration. Wind energy project development: process and methodologies, including wind resource assessment. Feasibility factors such as energy capture calculation, environmental impact assessment, grid aspects and essential economics.

No academic credits can be obtained by attending this course.

Who should attend

Engineers, technologists and technicians active in the energy sector. Architects, planners and developers. Government and local authority officials. Investors.

Certification and Accreditation

The module has been registered with the Engineering Council of South Africa for Continuous Professional Development points. A Certificate of Attendance with an indication of the CPD points and level will be awarded to all participants who attend the full course from Monday morning to Saturday lunchtime.

Venue and Time

This course will be presented at the Sustainability Institute, R310 Baden Powell Drive, Lynedoch, outside Stellenbosch, and will run from 08:00 to 17:00 on Mo-Fri, 30 July – 4 August 2018 and from 09:00 to 13:00 on Saturday4 August 2018. Directions can be obtained from www.sustainabilityinstitute.net.

Travel and Accommodation

Limited accommodation is available at the Sustainability Institute's guesthouse on a full-board basis. This excludes transportation to and from the airport which is for you own account. Please contact the guesthouse at 021 881 3196 or hospitality.si@sustainabilityinstitute.net for reservations. The Stellenbosch Information Bureau can be contacted at tel. 021-883 3584 for delegates who want to make their own accommodation arrangements.

Registration

The course is designed for a restricted number of attendees so as to personalise and maximise the learning experience. Bookings will be taken on a first come first served basis.

Registration must be done online at:
http://apps.sun.ac.za/SCD/ApplicationForm.aspx?scourseid=4165

No registration is final until you have received a confirmation by email from Stellenbosch University.

Registrations close on Friday 28 July 2017.

Course Fees

- Course fee for the five and a half-day course: R10 500.00
- The registration form must be accompanied by a cheque made out to Stellenbosch University, or proof of a direct deposit to Stellenbosch University.
- **Cancellation of enrolment made up to and including Friday 28 July 2017 will be subject to a 15% handling fee**. No refunds will be made after this date; however, substitutions will be accepted.
- Attendance without payment will not be permitted.
- In the case of unforeseen circumstances, Stellenbosch University reserves the right to cancel the course or change the lecturer with two weeks' notice, in which case all fees will be reimbursed in full on request.
- The course fee includes all study material, tea/coffee and lunches.

Presenter

Mr Gareth Erfort is a lecturer at the Mechanical and Mechatronic Engineering department of Stellenbosch University. He previosuly worked for CSIR and spent 2 years abroad working on international civil engineering projects. He is compeleteing his PhD thesis on in Vertical Axis Wind Turbines, utilising CFD and genetic algorithims.

Centre for Renewable and Sustainable Energy Studies

Faculty of Engineering

Private Bag x1; Matieland, 7602 • South Africa
Tel: +27 (0) 21 808 4069 Fax / Faks: +27 (0) 21 883 8513
crses@sun.ac.za
http:www.crses.sun.ac.za

.