



## Energy Storage

(Certificate of Attendance)

**9 – 13 September 2019, Dept of Electrical and Electronic Engineering, Room ESS – E202/3, Stellenbosch University**

### Synopsis

The objective is to enable participants to understand the concepts and technologies used for electric Energy Storage (ES). The course highlights Lithium Ion (Li-ion) batteries as the dominant technology in new projects and addresses the complex safety, performance and life issues of this technology. We will discuss the technical and financial parameters that drive the project designs of grid-connected and off-grid ES. Participants will become familiar with the major factors that determine Energy Storage selection and sizing, and receive various case studies to use for benchmarking. The module aims to provide professionals with sufficient understanding to establish the key requirements and financial benefits of Energy Storage technology and applications in various grid-connected and off-grid systems.

No academic credits can be obtained by attending this course.

### Who should attend?

Any person or organization that needs to learn more about electrical systems, integration of renewable energy supply, and electricity planning will benefit from this course.

### 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 participants who attend all five days of the course.

### Venue and time

This course will be presented at the Engineering Knowledge Centre, Faculty of Engineering, Stellenbosch University and will run Mo-Fri & Sa from 08:00 to 18:00 on 9 - 13 September 2019. Directions can be obtained from: [crses@sun.ac.za](mailto:crses@sun.ac.za) or <http://crses.sun.ac.za/contact-us>

### Travel and accommodation

All travel arrangements are for your own account. Call the Stellenbosch Information Bureau on 021 883 3584 for accommodation near the university. You can request a list of available guesthouses from [crses@sun.ac.za](mailto:crses@sun.ac.za).

### Registration

In order to personalise and maximise the learning experience, the number of attendees is limited and bookings will be taken on a first come, first served basis.

### Registration must be done online at:

<https://shortcourses.sun.ac.za/application-form.html?scourseid=5050>

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

**Registrations close on 26 August 2019**

### Course fees

- The fee for the course is **R10 800.00**
- **Cancellations made up to and including 26 August 2019 will qualify for a full refund.** No refunds will be made after this date; however, substitutions will be accepted.
- **Payment is mandatory for attendance.**
- In the case of unforeseen circumstances, Stellenbosch University reserves the right to cancel the course or change the lecturer, in which case all fees will be reimbursed in full, on request.
- The course fee includes all study material, tea/coffee, and lunch.

### Presenter



**Prof. Bladergroen** completed his chemical engineering degree at the University of Twente (NL) before he joined the University of the Western Cape (UWC) in 1998 as a PhD student. After some time as postdoctoral fellow he was appointed as research manager for industrial contract research in 2005. From 2007 Prof Bladergroen accepted his role as the deputy director of the South African Institute for Advanced Materials Chemistry. Prof Bladergroen is currently heading the Energy Storage Innovation Laboratory (ESIL) which was created in 2015 as a platform to commercialize emerging technologies in partnership with local businesses.



Centre for Renewable and Sustainable Energy Studies



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