



# ENERGY STORAGE

2-4 October 2017

STIAS, Wallenberg Research Centre,  
10 Marais Street, Stellenbosch, 7600

## 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 three days of the course.

## Venue and time

The Wallenberg Research Centre @ Stias, 10 Marais Street, Stellenbosch

Monday, 2 October to Wednesday, 4 October 2017

08h00 to 17h00

Go to <http://stias.ac.za/location-and-map/> for directions.

## 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.

## Register online:

<http://apps.sun.ac.za/SCD/ApplicationForm.aspx?courseid=4889>

*Registration is final only when you have received a confirmation email from Stellenbosch University.*

*Registrations close on 15 September 2017*

## Course fees

- The fee for the **three-day** course is **R7 000.00**
- **Cancellations made up to and including 15 September 2017 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

**Gerhard Swart** is a multi-disciplinary Systems Engineer and Technology Strategist, consulting through Alphadot (Pty) Ltd, particularly in the fields of Renewable Energy and Electric Vehicle technologies. He is also co-founder and Chief Technical Officer of BattCo Energy Storage Systems (Pty) Ltd, a start-up that provides large-scale batteries for stationary and mobile



applications.

He has become a recognised authority in the field of Energy Storage through his work on the development of the Joule electric vehicle and the establishment of the UWC Energy Storage Innovation Lab.



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