



Technical Seminar on PV, ESS and Grid Conformity

9 – 10 May 2018

ESKOM Academy of Learning, Johannesburg, South Africa

Africa's strong demand for electricity is set to boost its renewable energy industry. With one of the best potential resources for renewables, Africa's installed capacity of renewables in the Sub-Saharan region is estimated by the International Energy Agency to almost double from 35 GW to more than 60 GW, given the right government framework and market conditions.

The increased adoption of renewables brings about new challenges, such as increased decentralization and issues on integrating renewables to the grid. In order to prepare for the energy grid of the future, African utilities and other stakeholders must improve their competence and knowledge throughout the renewable energy value chain, from components to systems to the grid. What are the local challenges and issues in solar photovoltaic (PV) and grid conformity that must be addressed? What types of energy storage technologies are available and which are suited to the region? How can experiences from overseas be applied in the African context? How do international standards improve the safety, performance and reliability of the region's renewable energy projects?

All these questions and more shall be addressed in the Technical Seminar organized and moderated by VDE Renewables and its globally renowned partners Fraunhofer ISE and the Pohlen Group.

Approach and structure

The content of the training seminar is tailored to the needs of local stakeholders in 7 focused sessions over 2 days. Each session will last for 1.5 hours with the following structure:

- 5 minutes: Introduction by the trainer
- 30 minutes: 2 to 3 cases on issues/challenges presented by the participants
- 40 minutes: Technical training tailored to the presented cases
- 15 minutes: Q&A session

Interested participants who want to have their technical questions addressed by the trainers are invited to prepare a case study. For each session, 2 to 3 cases shall be chosen and presented in the seminar. In order to have a productive training session, [please send your case studies to events.renewables@vde.com](mailto:events.renewables@vde.com) by **16 April 2018**. VDE will then distribute the cases to the respective trainer, ensuring that each trainer has sufficient time to prepare and tailor the training material to the specific cases.

Who should attend?

Technical advisors, consultants, principal engineers, senior engineers, technical team managers from:

- Utilities
- System installers
- Grid operators
- Energy authorities

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In cooperation with:

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Program: Technical Seminar

Seminar Day 1 – Wednesday, 9 May 2018

08:45 – 09:00	Welcome remarks <i>Ansgar Hinz, VDE</i>
09:00 – 10:30	Session 1 PV module safety and performance <i>Trainer: Boris Farnung, Fraunhofer ISE</i>
10:30 – 11:00	Networking coffee break
11:00 – 12:30	Session 2 Inverter quality and grid interconnection challenges <i>Trainer: Peter Busch, Power Transformer Specialist Consultant</i>
12:30 – 13:30	Lunch break
13:30 – 15:00	Session 3 State-of-the-art PV rooftop concepts and best practices for design <i>Trainer: Klaus Reinartz, Pohlen Group</i>
15:00 – 15:30	Networking coffee break
15:30 – 17:00	Session 4 Qualification of PV system installers and installation quality <i>Trainer: Jonas Brückner, VDE Renewables</i>
17:00	End of session

Seminar Day 2 – Thursday, 10 May 2018

09:00 – 10:30	Session 5 Grid conformity: Addressing challenges in integrating renewables <i>Trainer: Sneha Manohara, VDE Renewables</i>
10:30 – 11:00	Networking coffee break
11:00 – 12:30	Session 6 Cutting-edge quality assurance for ground-mounted PV systems <i>Trainer: Jonas Brückner, VDE Renewables</i>
12:30 – 13:30	Lunch break
13:30 – 15:00	Session 7 Energy storage technologies, applications and business models Short-term storage for large-scale integration of renewables, behind and before the meter <i>Trainer: Matthias Vetter, Fraunhofer ISE</i>
15:00 – 15:30	Wrap-up session and end of Seminar

Venue for the Technical Seminar

Eskom Academy of Learning (EAL)
Dale Road PBag/X13
Halfway House, 1685
Midrand, 1685, Johannesburg

Program: B2B Networking

Friday, 11 May 2018

Participants are welcome to set up face-to-face meetings with the trainers on Friday, 11 May. Leverage on this outstanding opportunity to further discuss technical questions or project specifics with the top experts in the field. The conference rooms at the Afrique Boutique Hotel are available for use. To reserve a meeting room, please email events.renewables@vde.com or approach any of our team during the Technical Seminar.

Venue for B2B Networking

Afrique Boutique Hotel
343 Equestrian Ring
Ruimsig, Roodepoort, 1732, Johannesburg
Phone +27 11 958 0855 / +27 11 958 1825
www.afriquehotel.co.za

Registration fee

The two-day training seminar with lunch and refreshment breaks and B2B networking session costs:

Early bird price (by 13 April)	R 3,900
Regular price	R 5,000

To register, go to <https://event.gs/s/w6Ux>. For the early bird discount, please key in "earlybird" in the coupon code box. The payment instructions will be sent shortly.

Cancellation conditions: All participation fees are non-refundable, but are transferable. To transfer your registration to another person, please email events.renewables@vde.com.

Contact

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