

Solar Hybrid Mini-grids - 2-Days In-Depth Technical Training

with a focus on participants, which have been awarded to design, supply, install, test and commission 60 kW Solar PV-Diesel Hybrid Plants in Off-Grid Areas in Kenya by the Rural Electrification Authority (REA) of Kenya

**Wednesday, 24th, and Thursday, 25th, of January 2018
Strathmore Business School, Ole Sangale Road, Nairobi**

Outline

The [Embassy of the Federal Republic of Germany in Nairobi, Kenya](#), together with its partners facilitates an In-Depth Technical Training on Solar Hybrid Mini-grids at **Strathmore Business School Nairobi** (Ole Sangale Rd., off Mbagathi Way) on January 24th and 25th, 2018. The two day Training focuses on specifically applicable designs, components, and technologies for the erection of Solar Hybrid Mini-grids in rural/ remote areas of Kenya.

In pursuit of more ecological and at the same time affordable carbon neutral energy solutions for all Kenyans, both in urban and rural areas, Solar Hybrid solutions have gained momentum. To secure the necessary technical resilience even in regions, which are difficult to access, excellency in design, components and installation is required. During the two days, German solar business practitioners share their expertise by explaining and show-casing state of the art technology, market applications, and best practice examples.

The Technical Training is set-up within “**German Embassy Green Economy Cycle (GEGEC)**”, a series of events that aims at promoting the application of innovative business practices and technologies in order to reduce the environmental footprint of economic activities.



Implementation by



Delegation of German Industry
and Commerce in Kenya
Delegation der Deutschen Wirtschaft
in Kenia

Network and Implementation partners



Technical Training: Solar Hybrid Mini-grids: Agenda Day 1
Wednesday, January 24th, 2018: Battery Storages, Solar Panel Technology

07:00 Registration of Participants

08:00-08:20 Welcome and Keynote Addresses

N/N

[Rural Electrification Authority \(REA\)](#) (tbc)

Michael Derus

Deputy Head of Mission and Head of Economic Affairs at the
[Embassy of the Federal Republic of Germany in Kenya](#)

08:20-08:40 Setting the Scene

Thilo Vogeler, [Delegation of German Industry and Commerce \(AHK\) in Kenya](#) on
German Activities to promote Solar Hybrid Off-Grid Technologies in Kenya

Francis Romano Sweta, [Knights Energy](#) on

Solar Island Systems in Kenya – A Report from the field

08:40-12:30 Session I: Battery Storages

Facilitated by **Danilo Zithier**, [Hoppecke Batterien GmbH](#)

- Products and System Solutions
- Parameters for Battery Sizing and ideal Operation/ B.E.S.T. – Tool
- Installation and Operation: Transport, Standards, Personal Protection, Site Requirements, Commissioning, Maintenance, Troubleshooting

Including Q&A

12:30-13:30 Lunch Break

13:30-16:30 Session II: Solar Panels

Facilitated by **Jens Schlegel**, [Heckert Solar GmbH](#)

- Products and System Solutions
- Quality Aspects of different Solar Panel Types
- Long-Term Business Cases

Including Q&A

16:30-17:00 Closing

Technical Training: Solar Hybrid Mini-grids: Agenda Day 2
Thursday, January 25th, 2018: System Design and Commissioning

07:00 Registration of Participants

08:00-08:20 Opening

Thilo Vogeler, [Delegation of German Industry and Commerce \(AHK\) in Kenya](#)

Francis Romano Sweta, [Knights Energy](#)

08:20-12:30 Session III: System Design

Facilitated by **Guluma Megersa**, [SMA Sunbelt GmbH](#)

- Concepts for Hybrid Energy Systems
- Function, Main Features and Protections of Battery Inverters
- Functions, Protections and Communication Concepts for Multicluster Systems
- Design of Hybrid Energy System with applied by Software Tools

Including Q&A

12:30-13:30 Lunch Break

13:30-16:30 Session IV: System Commissioning (Hands-On Training in Strathmore Solar-Tec Center)

Facilitated by **Sebastian Seidl**, [SMA Sunbelt GmbH](#)

- Commissioning Process
- Parameters of PV Inverters
- Quick Configuration Guide
- Advanced Configuration of Battery Inverters

Including Q&A

16:30-17:00 Closing

Michael Derus

Deputy Head of Mission and Head of Economic Affairs at the
[Embassy of the Federal Republic of Germany in Kenya](#)

Registration Form

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Details of Participation

Participation Slots are limited and will be individually awarded by AHK Kenya with a focus on REA Mini-grid contractors.

Details of Participant

Company/ Institution

**We have been awarded the REA
contract for the following mini-grid:**

Name

Position

Email

Mobile

Physical Address

Additional comments:

Participation free of charge; please use the form for submitting your participation details.

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KNIGHTS ENERGY
for professional Solar Solutions

