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Press Release

Battery-backed solar power system at the Namibia University of Science and Technology (NUST)

A battery-backed photovoltaic (PV) power plant for demand-driven solar power supply has been installed in Namibia by deea solutions GmbH and Terrawatt Planungsgesellschaft mbH within the Renewable Energy Solutions Programme created by the Deutsche Energie Agentur (dena) – the German Energy Agency.

Windhoek, October 20, 2016

On 25th of October a photovoltaic plant will be inaugurated at the guesthouse “Kleines Heim” of the Namibia University of Science and Technology (NUST) in Windhoek. The event will take place with the participation of the Vice-Chancellor of the Namibia University of Science and Technology, Prof. Tjama Tjivikua, the Ambassador of the Federal Republic of Germany, Mr. Christian Matthias Schlaga, a representative of the German Energy Agency, Markus Gebhardt, the CEO of deea solutions GmbH, Daniel Gudopp and the CEO of Terrawatt Planungsgesellschaft mbH, Falk Zeuner, amongst others.

The grid-connected battery-backed solar system with a capacity of 15 kWp was implemented by two German companies, deea solutions GmbH and Terrawatt Planungsgesellschaft mbH, using products sourced exclusively from German manufacturers. The polycrystalline PV modules are provided by the Freiburg-based manufacturer SI Module, whereas the inverters are supplied by Kaco New Energy from Neckarsulm. Hoppecke lead-acid batteries are used for energy storage.

In addition to the design and installation of the system, workshops and trainings on solar power with Namibian personnel were held. One of the aims of the project is to collect

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important information on power outages in the region in order to provide tailored solar system solutions in Namibia and neighboring Southern African Development Community (SADC) countries.

The dena RES Project Namibia is part of the worldwide dena Renewable Energy Solutions Programme coordinated by Deutsche Energie-Agentur (dena) - the German Energy Agency - and co-financed by the German Federal Ministry for Economic Affairs and Energy (BMWi) within the German Energy Solutions Initiative.

Footage Material

High resolution images are provided upon request. Please use the reference numbers on the left side for your inquiry.

Ref.	Image	Content
01		**Equipment storage** The equipment was stored under roof at the yard of "Kleines Heim".
02		**Earth Works** The workers of the local partner company, Tula Trading, opening trenches to later lay the wiring conduits in them.

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Ref.	Image	Content
03		**Cabling** A worker of the local company Tula Trading lays the cables inside pipe conduits.
04		**Mounting of Substructure** Fastening and installing the framing system. In total 26 mounting rails were fastened to the roof with 128 anchor bolts.
05		**Mounting of Solar Modules** Fastening the modules to the mounting system. In total 58 solar modules of type SI-Classic P260 of the German manufacturer SI Module, in classic design with polycrystalline cell were installed.
06		**Battery Backup** The solar installation is fitted with a battery storage that supplies "Kleines Heim" with electricity in case of power cuts and at night time.

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Ref.	Image	Content
07		**Trainings and Capacity Building** Training courses to the workers of the local company Tula Trading, on the grid connection of solar systems.
07		**Testing for commissioning** The specialists of the Namibia Network Operator, Osona Electrical Engineering, carry out necessary tests prior to the commissioning of the plant.
09		**Utility Dialog** Introduction to operation mode of the island Inverter technology to Reimo Bauer, the Executive Manager of Engineering & System Development at the Central North Regional Electricity Distributor (CENORED).
10		**The Installation** 58 solar panels of the German manufacturer SI Module are installed at one roof of the "Kleines Heim" accommodation.

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		The 15.08 kWp installation produces about 28.820 kWh per year. Most of the electricity is consumed directly at "Kleines Heim". The remainder is feed in to the power grid.
11		**Press Conference** Prof. Tjama Tjivikua, Vice Chancellor of NUST, opened the inauguration ceremony with a welcome note.
12		**Inauguration Event** From left to right: Prof. Tjama Tjivikua, Vice Chancellor of NUST, Josiah Nghwada, CEO Tula Trading; Christian Schlaga, Ambassador of the Federal Republic of Germany; Markus Gebhardt, Representative of the German Energy Agency; Falk Zeuner, CEO Terrawatt; Daniel Gudopp, CEO deea solutions; Frank Polzin, CEO Polzin RE

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Ref.	Image	Content
13		**Energy Dialogue** During the inauguration event, several talks on the potential of solar energy in Namibia were held. His excellency the German Ambassador Christian Schlaga (mid left) discusses with Daniel Gudopp (mid right), CEO of deea solutions, about the benefits of solar power.

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Background Information

deea solutions GmbH
deea solutions GmbH is a German engineering and strategy consulting firm with headquarters in Frankfurt am Main.
As a global, independent consultant, deea solutions offers a wide range of services ranging from project development, planning and implementation, construction and operational monitoring to financial advisory and financing clean-tech projects.
The core business of deea solutions are feasibility studies, due diligence, financial and economic modelling and advisory as well as environmental and social impact studies.
deea specialists support clients directly on site or at their headquarters to achieve and maintain Excellence in Renewables.

Terrawatt Planungsgesellschaft mbH
Terrawatt is a German engineering company with more than 20 years of experience in planning, consulting, technical installation and operation of renewable energy projects. By today Terrawatt has contributed to more than 300 wind power projects with more than 1,500 wind turbines installed and more than 120 MW of solar PV projects worldwide

Deutsche Energie-Agentur GmbH (dena)
The Deutsche Energie-Agentur (dena) – the German Energy Agency – is Germany's centre of expertise for energy efficiency, renewable energy sources and intelligent energy systems. As 'Agency for Applied Energy Transition', it contributes to attaining the goals of energy and climate politics by developing solutions and putting them into practice, both nationally and internationally. In order to do this, it brings together partners from all areas of politics and business. dena's partners are the Federal Republic of Germany, the KfW Group, Allianz SE, Deutsche Bank AG and DZ BANK AG. www.dena.de/en

German Energy Solutions Initiative
The transfer of energy expertise, the promotion of foreign trade and the facilitation of international development cooperation are part of the German Energy Solutions Initiative, which is coordinated and financed by the German Federal Ministry for Economic Affairs and Energy. The initiative offers networking and business opportunities in Germany and abroad, it showcases reference projects and facilitates capacity building. www.german-energy-solutions.de/en

dena-Renewable-Energy-Solutions-Programme (dena-RES-Programme)
The dena RES Programme was developed by the Deutsche Energie-Agentur (dena) – the German Energy Agency. This programme, co-financed by the Federal Ministry for Economic Affairs and Energy within the German Energy Solutions Initiative, helps German renewable energy companies enter new markets. Within the framework of the programme, reference and demonstration projects are installed near prestigious institutions. The installation is accompanied by comprehensive PR, marketing and training programmes. These projects showcase high-quality German renewable energy technology and help participating companies gain a foothold in new markets. www.german-energy-solutions.de/en/res

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Online References

Deutsche Energie-Agentur GmbH: www.dena.de
deea solutions GmbH: www.deea-solutions.com
Terrawatt Planungsgesellschaft mbH: www.terrawatt.de
dena Renewable Energy Solutions Programme (dena RES Programme): www.german-energy-solutions.de/en/res
German Energy Solutions Initiative: www.german-energy-solutions.de/en
Project Website: www.namibia-in-solar.com

Downloads

http://www.namibia-in-solar.com/downloads/

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