



Information about the Africa project VET4Africa "World with a future through vocational training"

Under the title "World with a future through vocational training", a wide range of activities have been developed in recent years to support Africa. These will be further expanded and continued in 2020.

The project was launched in December 2017 in Wildpoldsried during the symposium "World with a future through vocational training". German Development Aid Minister Dr Gerd Müller promised to support training courses for African teachers in Wildpoldsried and directly on site. In keeping with the minister's motto: "Africa needs energy, training and jobs! This requires young, motivated and well-trained specialists. Africa can make leaps of the century via decentralised energy supply, "green citizen energy cooperatives" and isolated solutions, as they have been tested in Wildpoldsried for years.

The following cooperation partners have joined forces to implement the project:

- Community Wildpoldsried
- bbw gGmbH, Bildungswerk der Bayerischen Wirtschaft
- State vocational school 1 Kempten
- GIZ, German Association for International Cooperation
- ALP Dillingen, Academy for Teacher Training and Personnel Management

Since 2017, the following sub-activities have been developed, which are described in detail below:

training: Teacher training and training of multipliers from Bavarian vocational schools

"Polyvalent" qualification of vocational school teachers to become multipliers who can apply the knowledge they have acquired in the project parts I - V (see below) as well as in their teaching at vocational schools (especially in the SHK and electrical field) after the further training with the following contents:

Module I: Training for "PV Installer Level I, Trainer"

Content: Pedagogical and didactic concept for the construction of a "solar function suitcase"

Learning goals: Mediation of basic knowledge in electrical, energy, PV and storage technology and its pedagogical implementation

Goal: Qualification of as many multipliers as possible who can then independently conduct training courses for "PV Installer Level I" at their vocational school locations

The following editorial meetings and teacher training courses were held via ALP (Dillingen):

- First editorial meeting for Module 1: 15.01. to 17.01.2018 in Wildpoldsried (12 participants from various vocational schools in Bavaria)
- First teacher training: 09.04.2018 to 13.04.2018, Wildpoldsried (15 participants from different vocational schools in Bavaria)
- Second teacher training course: 11.03.2019 to 15.03.2019, Wildpoldsried, (13 participants from various vocational schools in Bavaria)

Module II: Construction of a modular power supply unit as AC grid

Contents: Pedagogical and didactic concept for the construction of an elevated PV system with battery storage and a hybrid inverter with energy management functions for a single or three-phase grid as a so-called TN-S system



- First editorial meeting for Module 2: 10.05.2019 to 24.05.2019, Wildpoldsried (10 participants from different vocational schools in Bavaria)
- Second editorial meeting for Module 2: 11.11.2019 to 15.11.2019, Wildpoldsried (10 participants from different vocational schools in Bavaria)
- Third editorial meeting for Module 1 new and Module 2: 14.02.2020 to 16.02.2020, Wildpoldsried (19 participants from different vocational schools in Bavaria)

Project Part I: "Training trainers for a world with a future through vocational education and training"

Qualification of African vocational school teachers or trainers as multipliers

Module I: Training for "PV Installer Level I, Trainer"

Content: Pedagogical and didactic concept for the construction of a "solar function suitcase"

Learning goals: Mediation of basic knowledge in electrical, energy, PV and storage technology

Goal: Qualification of as many multipliers as possible, who can then independently conduct training courses in Africa for "PV Installer Level I"

First course: 24.06.2018 to 07.07.2018, Wildpoldsried in English, 19 participants

From 45 applications, 23 trainers from 6 African countries were selected. 4 of the selected participants had visa problems, so that 19 multipliers were left out:

Kenya (5), Uganda (3), Tanzania (5), Rwanda (4), Zambia (2)

Following the successful completion of the first course in June 2018, German Development Aid Minister Dr. Gerd Müller personally handed over the certificates to the 19 African participants and gave the go-ahead for up to 4 further courses in 2019. The dates were fixed as follows:

Second course:	09.09 to 22.09.18	Wildpoldsried in French, 18 participants
Third course:	29.11. - 09.12.18	in French, in Senegal, 12 participants
Fourth course:	01.04. - 12.04.19	in French, 18 participants
Fifth course:	17.06. - 28.06.19	in English, 15 participants
Sixth course:	07.10. - 18.10.19	in English, 17 participants

Total by the end of 2019: 99 participants from 15 countries

Innovations 2020

New modules and course materials will be created for the VET4Africa PV1 and VET4Africa PV2 courses. As a result, the project will be given the new title VET4Africa and a homepage at the address:

www.VET4Africa.com

The following courses are planned and already approved for 2020:

Seventh course:	03.05. - 16.05.2020 PV1 in English
Eighth course:	01.06. - 13.06.2020 PV1 in English in Ghana
Ninth course:	20.09. - 02.10.2020 PV1 in French
Tenth course:	01.11. - 14.11.2020 PV2 in English



Project part II: "Qualification of returnees"

Training of asylum seekers who are willing to return and rejected

Module I: Training for "PV Installer Level I

Content: Construction and operation of a "solar function case"

Learning goals: Mediation of basic knowledge in electrical, energy, PV and storage technology

Qualification of as many returnees as possible in cooperation with the ZRB Südbayern, a reintegration scout (Mrs Hoferichter, City of Munich), the BFZ International and the GIZ (Mr Mengelkamp and Dr. Sanftenberg).

Goal: Creation of perspectives for staying and bases for a business start-up in the home countries

First course: 20.08. – 24.08.2018 and 28.08. – 31.08.2018 in Regensburg, 22 participants from northern Iraq, financed by GIZ, successfully completed

Second course: 10.09. – 14.09.2018 and 17.09. – 21.09.2018 in Fürstenfeldbruck, 20 participants from Nigeria and Congo, financed by GIZ, successfully completed

Further courses are planned.

Project part III: "Bavarian vocational school teachers with the solar function case in developing countries" in cooperation with the "BFZ International" and so-called BINA vocational schools

- 24.03. to 30.03.2018:** OStR Mario Beier, vocational school teacher in Altötting, spent a week in **Lebanon**, Bar Elias, Beirut, and taught there with very good feedback 15 vocational school teachers from 3 cities with the "solar function suitcase"
- 07.05. to 11.05.2018** Alexander Ott, deputy head of BS Hof, in **India** on the topic: Conception of better integration of private economy and public vocational training. Mission to Bangalore and Mumbai, Indian Ministry of Vocational Education and Training
- 22.05. to 30.05.2018** StR Michael Münch, vocational school teacher in Erlangen, training for vocational school teachers of state BS in the field of electrical engineering and "solar function suitcase" in Erbil, **Iraq**
- August to Nov. 2018** StR Anton Geer, vocational school teacher in Dachau, taught call students and teachers in Mozambique with the "solar function case" and installed a PV system on the school roof together with the course participants
First period: **21.08.18 - 29.08.18** in Beira: Set-up of the solar function case with exercises for the preparation of PV system installations
Second period: **27.10.18 - 04.11.18**: Installation of a PV system on the school roof in Beira
- Autumn holidays 2018** A group of vocational school teachers from Altötting travelled to **Zambia** to train teachers and students on the solar function case together with African trainers from Course 1 (financed by GIZ and BMZ)
- 29.11. to 9.12.2018** Willi Kirchensteiner, Manfred Wolf, Thomas Pfluger and Adel Abdallah travelled to **Senegal** (Thiès) and held a course on the solar function case for Senegalese teachers (financed by the Bavarian State Chancellery, 50 solar function cases and 15 measuring interfaces were delivered to Thies and implemented there in various training projects in cooperation with teachers trained in project part I)



August 2019

ürgen Schmidt and Marcus Marcher (Staatl. BSI Kempten) travelled to **Kenya** to hold a course on Module I together with the trained mentors

Mario Beier and Stephan Hansjakob (BS Altötting) travelled to **Zambia** to hold a course on Module I together with the trained mentors

Anton Geer (BS Dachau) and Michael Briegel (BS Günzburg) travelled to **Rwanda** to hold a course on Module I together with the trained mentors

November 2019

Johannes Goldstein (BS Mindelheim) and some colleagues and students from the technical school Mindelheim travelled to **Uganda** to hold a course on Module I together with the trained mentors

Further foreign assignments are planned for 2020 in cooperation with the "bbw International" in **Ethiopia, Ghana and Cameroon**.

Project part IV: "Teaching refugee classes with the solar function suitcase"

Since May 2018: immediately after the teacher training in April, the first colleagues tested their acquired knowledge from the teacher training in Wildpoldsried with the self-made "solar function case" in classes for refugee education (so-called BIK = Berufsintegrationsklassen).

The first projects with the solar case in so-called "BIK" (vocational integration classes) were carried out at the state vocational schools in Kempten and Dachau.

12 May 2018: Meeting of an organisation team at the technical school for mechanical engineering in Bergsonstraße, Munich
Planning of the first courses for refugees with little prospects of staying in Munich from 1 August

Project Part V: "Cooperation with African vocational schools"

Since March 2018: Cooperation of the State Vocational School I in Kempten with the CPT (Centre de Perfectionnement Technique) = Vocational School for Technical Professions of the Chamber of Commerce and Industry CCIS-RSK in Kénitra. The following expert missions are planned:

Consulting mission "Quality Management / School Development":

Consulting mission "School administration

Counselling mission "Teaching and project work in the vocational school in a specific subject area".

Training for teachers in Morocco "lessons on CNC machines" or other technical training (by vocational school teachers)

Collaboration in curriculum development for the field of mechatronics, etc.

17.06.18 – 23.06.18 Mr. Habbou, headmaster of the CPT (vocational school in Kenitra) came with a small delegation and a chamber representative from Morocco to the State Vocational School I in Kempten for the first contact

18.11.18 – 25.11.18 A delegation of the State BSI Kempten travelled to Morocco from 18.11. to 25.11. to get to know the vocational school in Kenitra and to arrange first concrete educational measures



Juni 2019

Marcus Marcher and Christoph Münstermann (Staatl. BS1 Kempten) travelled to Kenitra (Morocco) to support the local school management in questions of school organisation and quality management

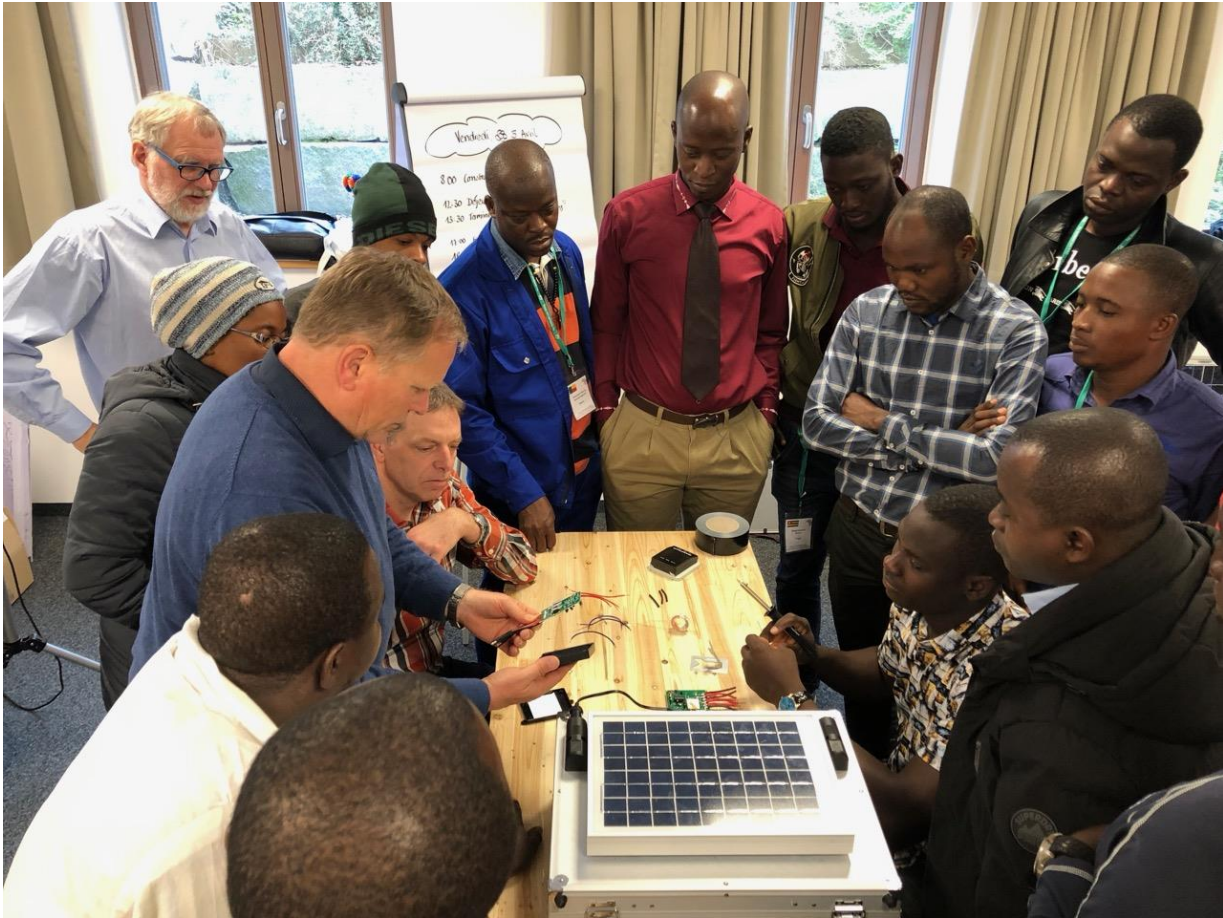
Project initiators:

Director of Studies and Deputy Mayor of Wildpoldsried Günter Mögele, former Director of Studies Wilhelm Kirchensteiner and former Director of Studies Manfred Wolf

Overall organization and coordination of the 5 project parts as well as the individual training courses:

Community of Wildpoldsried, represented by Günter Mögele, second mayor of the community of Wildpoldsried, director of studies and member of the school management of the State Vocational School I in Kempten in cooperation with the
BBW International, represented by Ms Marlyse Annoepel and Mr Martin Wahl

For further information see : www.VET4Africa.com



Soldering exercises in the training room (pictures: Marlyse Annoepel)



Measurement exercises in Wildpoldsried (pictures: Marlyse Annoepel)



Certificate ceremony in Wildpoldsried (pictures: Marlyse Annoepel)



Group training of German mentors in Kenya (pictures: Jürgen Schmidt)



Measurement exercise in Senegal (pictures: Thomas Pfluger)



Exercises in Africa (pictures: African trainer)