# Sachbericht des Zuschussempfängers

**giz** Deutsche Gesellschaft
für Internationale
Zusammenarbeit (GIZ) GmbH

**Land (country):**   Afghanistan

**Projektbezeichnung (project name):**   Development  of a Renewable Energies and Energy Efficiency (RE/EE) Master Degree Program (A-Master)

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| **Berichtszeitraum (report period):** | 04/20-09/20 | **Berichtszeitraum (report period):** | 04/20-09/20 |
| **Projektnummer (project number):** 18.2006.7-004.00 | | **Projektnummer (project number):** 18.2006.7-004.00 | |

**Vertragsnummer (contract number):** 81255957

**Zuschussempfänger (recipient):**   Beuth Hochschule für Technik Berlin (Beuth Hochschule für Technik University of Applied Sciences)

**Durchführungsinstitution(en) (implementing institution/s):**
Beuth Hochschule für Technik Berlin – Institute of Distance Learning

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|---|---|
| **Ansprechpartner/-in des ZE vor Ort (local contact person oft he recipient):** Prof. Dr. Florian Schindler | **Ansprechpartner/-in des ZE vor Ort (local contact person oft he recipient):** Prof. Dr. Florian Schindler |
| **GIZ-Organisationseinheit (giz organisational unit):** 2600 | **GIZ-Organisationseinheit (giz organisational unit):** 2600 |

**Berichtsstichtag (reporting date):**   30.09.2020

**Unterschrift des Zuschussempfängers (signature of recipient):**

Prof. Dr. Florian Schindler
Director Institute of Distance Learning

Submission date: 02/10/2020

# Sachbericht des Zuschussempfängers

giz Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH

**1. Ziel des durch den Zuschuss geförderten Projektes (Goal of the project)**

Development of a Renewable Energies and Energy Efficiency (RE/EE) Master Degree Program in cooperation with the Engineering Faculty of Kabul University (KU) in Afghanistan

1.1 Projektziel bei Projektbeginn (Objective at project start)

The proposed project's objective is the capacity development of the potential future workforce in the field of RE/EE in Afghanistan in order to meet climate change goals and the employers' demand for University Master Degree postgraduates who are prepared to take over technical and managerial leadership in top and middle management level positions in the field of renewable energies and energy efficiency.

1.2 ggf. Fortschreibung des Projektziels während der Durchführung (update of project goal if necessary)

no changes, see 1.1 above.

1.3 Stand der Umsetzung der Maßnahmen (Status of the implementation of the measures)

| Maßnahme (Measures) | Bewertung[1] (Assessment) | Stand/Ursachen für Abweichung (Causes of deviation) |
|---|---|---|
| A1: Assistance for regulatory conditions | B (2-3m) | The first steps in defining a Blended Learning approach in alignment with the Afghan regulations has been proposed to the Ministry of Higher Education (MoHE). There are still some more clarifications needed but a positive resolve is – at current assessment – likely. |
| A2: Curriculum design and development | A | The following steps for the development of a Curriculum have been taken in a process where Beuth University of Applied Sciences has made suggestions and discussed them with KU faculty members clarifying technical and scientific details in a participatory iterative process involving the following issues:<br>• Type of program – final version (Master of Science)<br>• Language – final version (English)<br>• Program Name – final version (as it turned out that the MoHE had taken the name from the project proposal already as granted) |

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[1] Bewertung (gilt für Gliederungspunkte 3 und 5): (assessment (applies to points 3 and 5))
A = plangemäß (according to plan)
B = verzögert um ... (Monate angeben): delayed by … (specify months)
C = gefährdet: (placed at risk)
D = nicht möglich: (not possible)

| Maßnahme (Measures) | Bewertung[1] (Assessment) | Stand/Ursachen für Abweichung (Causes of deviation) |
|---|---|---|
| | | "Renewable Energies and Energy Efficiency (RE/EE)" <br> • Format: Blended Learning (adaptation to the Afghan context still in process) <br> • Goal of the Master Degree Program – final version reached <br> • Study plan (modules per semester, semester schedule, compulsory and elective modules, workload and credit points per semester, total number of credits, total duration in semesters, general conditions such as scientific approach or practical relevance, Master's semester, project phases etc.) – final version reached (7th version) <br> • Module number and detailed structure and content description (Module Manual) – currently in process <br> • Study and examination regulations – tbd <br> • Access requirements – tbd <br><br> All documents can be accessed via the A-Master Beuth Cloud (link will be provided on inquiry) |
| A3: Establishment of Blended Learning Format | B (2-3m) | Beuth and KU have embarked on a continuous effort to clarify the specifications, advantages and requirements of an innovative Blended Learning format for the new international standard Master Degree Program, which proofs to be very adequate in times of any crisis like the Corona-Pandemic. A working group between the Universities and with permanent presence of GIZ has been established and worked continuously without interruption. All protocols and documents established through this process are distributed using Email including addresses of University officials and MoHE officials. <br> Specifically, Beuth has created a document outlining an overarching definition of Blended Learning, its advantages for higher education and student-centered-learning, its challenges in the application as well as exemplary methods, tools and infrastructure for establishing an innovative Blended Learning approach. |
| A4: Structural and | B (2-3m) | In cooperation with the GIZ project team Beuth has conducted a needs assessment of the technical infrastructure at Afghan Universities od |

| Maßnahme (Measures) | Bewertung[1] (Assessment) | Stand/Ursachen für Abweichung (Causes of deviation) |
|---|---|---|
| technical support | | different regions. In these analyses Beuth assessed the number of available servers, workstations, general hard- and software, internet connection speeds as well as the existence of local area networks (LAN) and intranets at the different Universities. Specific attention has also been paid to the availability of qualified personnel who is responsible for maintaining the technical infrastructure and what training needs may arise during the implementation phase.<br><br>Due to the ongoing negotiations with MoHE a final assessment of the necessary infrastructural developments as well as capacity building needs has been delayed since the technical infrastructure is dependent on the detailed layout of the Blended Learning approach and its specific implementation. |
| B1: Coordination of content production | B (2-3m) | Content production is due to start as soon as a final version of the detailed module descriptions is reached. Expectantly, by then an approval has been given by the MoHE. In any case content production will be started with a generic approach making it possible to create learning materials which can be used either in online formats or as supplemental material for offline formats. |
| B2: Selection and provision of technical infrastructure | A | The work package consists of two parts: (1) is on the side of Beuth University. Beuth has ordered and installed a server and installed the open source learning management system (portal / platform) Moodle as well as the relevant e-learning libraries (SCORM-support, H5P support, mobile offline usage). We started to adapt Moodle to the needs and circumstances of Afghan Universities. The system is ready to be used and setup with the basic functionality needed.<br>(2) The second part applies to the side of KU and the other Afghan Universities and is currently a mixture of measures A4 and C2. It might be a crucial prerequisite especially for the other than KU Universities. Here Beuth plans to start a discussion process of how to proceed with those institutions in close cooperation with the GIZ team. |
| C1: Didactical | A | There has been a very valuable input from Beuth in terms of capacity building concerning innovative Blended Learning formats and its |

| Maßnahme (Measures) | Bewertung[1] (Assessment) | Stand/Ursachen für Abweichung (Causes of deviation) |
|---|---|---|
| capacity building | | implementation in the Afghan context. This process is still under way and it turned out to be a prerequisite for A3. Specifically, we exchanged and collaboratively drafted several documents concerning the Blended Learning format for Afghanistan as well as the requirements of the technical infrastructure for up-dating and maintaining the e-learning as part of the Blended Learning concept. Once we progressed further the Beuth-team will also offer training in the didactical framework for lecturers in the new Master Degree Program which will include training in good practices (e.g. mixture of digital synchronous and asynchronous teaching elements). |
| C2: Technical capacity building | A | The Beuth team started testing of different webmeeting tools with KU. Especially BigBlueButton which is open source, developed for educational purpose and hosted by Beuth University. The team also tested several proprietary meeting tools (MS Teams, Zoom, Skype) with different levels of success.<br><br>In parallel we started at Beuth to produce tutorial sessions for using the webmeeting tools. Once the necessary specifications of the module contents are concluded Beuth will offer specific capacity building workshops for the chosen toolset. |
| C3: Topical capacity building | B (3m) | This refers especially to the development of concepts for Training Multipliers/Trainers (ToT), including the development of assignments, capacity building for Blended Learning, student centered learning and outcome orientation and capacity building for using Learning Management System (LMS), webinars, media tools, etc., introducing formats like problem based learning, group work, peer-to-peer-learning, etc. The Beuth team has been able to touch upon some of the subjects but so far it was too early in the process to take up the point systematically. It should be the next thing on the list as soon as the content production will be started. |

1.4    Bewertung der Zielerreichung (inkl. Beitrag der Maßnahmen zur Zielerreichung) (Evaluation of the achievement of objectives)

As for the anticipated outputs 4 out of 5 (except ToT workshops) have been brought on their way and some indicators have been fulfilled already. For the first 6 months first results were achieved and with the establishment of a sound

communication and solid working structures the next steps of the process can be taken.

1.5 Stand der Erbringung der Partnerschaftsleistungen (Status of achievements)

The following (1.5.1 – 1.5.3.) is not clear to us. Is it referring to the finance of the project?

1.5.1 Leistungen des Zuschussempfängers (gemäß Vertrag) (performance in accordance with the contract)

| Soll (target) | Ist (actual) | Bewertung[1] (assessment) |
|---|---|---|
|  |  |  |

1.5.2 Beiträge des Partners (sofern vereinbart) (partner contributions – if stated)

| Soll | Ist | Bewertung[1] |
|---|---|---|
|  |  |  |

1.5.3 Beiträge Dritter (sofern vereinbart) (third party contributions – if stated)

| Soll | Ist | Bewertung[1] |
|---|---|---|
|  |  |  |

davon vorfinanzierte Partnerleistungen (thereof pre-financed)
in           €

**2. Koordination und Abstimmung mit GIZ oder Dritten (sofern vereinbart) (coordination and alignment with giz or thrid party)**

Abstimmungsformate[2] (coordination formats)

Bi-weekly virtual project meetings with KU representatives as well as GIZ representatives. Meetings are routinely protocolled and recorded if necessary. Topics and formats are focused on the exchange and further development of the current work packages (WPs). Continuous exchange via Email with GIZ.

| Häufigkeit (Soll) (frequency nominal) | Häufigkeit (Ist) (actual) | (assessment Bewertung[1] |
|---|---|---|
| - | Bi-weekly | A |

**3. Änderung der Konzeption und Gestaltung des durch den Zuschuss geförderten Projektes (change in the conception and design of the project)**

3.1 ggf. Änderung der Projektkonzeption während der Durchführung (changes in the concept of the project during implementation)

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[2] Z.B. gemeinsame jährliche/halbbjährliche/quartalsweise Planung; Koordinierungstreffen; Übermittlung bestimmter Daten/Berichte für das wirkungsorientierte Monitoring des Gesamtvorhabens, etc. (E.g. joint annual/ semi-annual/quarterly planning; coordination meetings; transmission of certain data/reports for the impact-oriented monitoring of the overall project, etc.)

A request for rededication (Umwidmungsantrag) 30.6.2020 of some of the travel allowances has been submitted and approved. The conception didn't change the overall concept of the project.

3.2 Fortführung nach Beendigung der Förderung (relevant bei Schlussberichten) (Continuation after funding ends (relevant for final reports))

Not relevant.

**4. Analyse und Wertung des durch den Zuschuss geförderten Projektes[3] (analysis and evaluation of the project)**

The project is on track with its given goals and deliverables. Some delays are due to some first adjustments while all involved teams being affected by the Corona crisis, but in spite of those difficulties all necessary negotiations with the MoHE are still ongoing. The outcome of these negotiations will influence the further course of the curriculum design as well as the didactic approach on the necessary learning materials. Nevertheless the project can be continued with the same goals and outcomes as given before.

**5. Handlungsbedarf (required action)**

5.1 Handlungsbedarf für den ZE (required action for Beuth)

Continue.

5.2 Handlungsbedarf für Dritte (required action for third parties)

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5.3 Handlungsbedarf für die GIZ (required action for giz)

Facilitate talks between KU and MoHE to reach an agreement regarding a Blended Learning format in line with the Afghan rules and regulations.

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[3] im Hinblick auf Leistungsempfänger, Methoden, Aufwand und Ertrag sowie Beiträge zu übergeordneten Zielen (in terms of beneficiaries, methods, expenses and income as well as contributions to overall objectives)