



Global Climate and SDG Engagement II

Module title: Global Climate and SDG Engagement II	Credits: 3	Responsible person: Knorn, Steffi
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Learning Outcomes

Upon completing the course, students will be able to:

- Implement or audit projects in international, intercultural and transdisciplinary teams to fulfill the needs of local communities in the partner countries of the network using renewable energy or other sustainable technologies.
- Communicate interculturally especially with partners in the Global South/North and to reflect on this communication
- Network with different partners (local communities, cooperatives, business, administration)
- Realize their project work as a service-learning project and know all necessary aspects of this concept
- Work in a social business project and know the characteristics of social business
- Contribute to climate and SDGs by local and common international climate action through CO₂compensation
- Reflect on climate justice and SDGs allowing a potential change of behavior to reduce individual and collective negative impact on climate, environment, and global justice
- Use different methods to collect data of the community partner for project implementation or audit
- Have an overview about different technologies and background information necessary to implement sustainable community-based projects
- Conduct literature research and analyses of prior projects in the area and the sociocultural context to improve their own project work.
- Use English as a common language for international scientific and project work

Content

The project module offers:

- Practical project work or audit and evaluation field stay including technologies and background information necessary to develop sustainable community-based projects, e.g. PV training, CO₂compensation, household biogas plants, clean cooking, biogas, income generation,
- International student hybrid working groups developing CO₂compensation projects for climate and SDGs tackling the needs of the local partner communities together with the partner NGOs.
- Research and innovation opportunities to deepen the development and application of sustainable technologies and methodologies
- Cooperation with local community organizations, NGOs, international universities, and other partners

Module Components

Course Name	Type	Number	Cycle	SWS
Global Climate and SDG Engagement II	PJ		WiSe/SoSe	4

Workload and Credit Points

Global Climate and SDG Engagement II (Projekt)	Multiplier	Hours	Total
Project implementation or audit visit (practical work)	7.0	7.0h	49.0h
Meetings with stakeholder	11.0	1.0h	11.0h
PREPARING DOCUMENTS Final Report, CO ₂ Compensation Checklist, Final Presentation, Self-Reflection	1.0	30.0h	30.0h
			90.0h

The Workload of the module sums up to 90.0 Hours. Therefore the module contains 3 Credits.

Description of Teaching and Learning Methods

Project work, service learning and social business approach with field visit (project place/country)

Requirements for participation and examination

Desirable prerequisites for participation in the courses:

A bachelor degree of any relevant field (not only engineering and sciences, but also economics, sociology, health, education, gender studies) providing the necessary competences to develop sustainable development projects in the field of renewable energy, energy efficiency, land use, waste management, ...

Undergraduate students with a proven relevant background are eligible too.

The participation in the Global Climate and SDG Engagement I module is mandatory. Exceptions may be possible in certain cases. The module GCSE II can be taken in the same semester as the GCSE I, but travel can take place only after completion of the requirements of GCSE I.

Mandatory requirements for the module test application:

1.) Module **Global Climate and SDG Engagement I (#30997)** passed

Module completion

Grading:	Type of exam:	Language:
graded	Portfolioprüfung 100 points in total	English

Grading scale:

Note:	1.0	1.3	1.7	2.0	2.3	2.7	3.0	3.3	3.7	4.0
Punkte:	90.0	85.0	80.0	75.0	70.0	66.0	62.0	58.0	54.0	50.0

Test description:

In this module students learn, how to implement or audit projects in international, intercultural and transdisciplinary teams to fulfill the needs of local communities in the partner countries of the network using renewable energy or other sustainable technologies. So the portfolio exam consist of the implementation or the audit work, the report and presentation of the project implementation or auditing process and acquired hard and soft skills linked to it.

Test elements	Categorie	Points	Duration/Extent
Final presentation	oral	20	20 +10 minutes
(Technical) Quality of the Project	practical	30	Part of practical work
Final report (incl. GATo CO2 Compensation Checklist)	written	25	5-10 pages
Self-reflection/Self-evaluation	flexible	10	self-reflection form/meetings
Social competences/soft skills	practical	15	part of practical work

Duration of the Module

The following number of semesters is estimated for taking and completing the module:

1 Semester

This module may be commenced in the following semesters:

Winter- und Sommersemester

Maximum Number of Participants

The maximum capacity of students is 100

Registration Procedures

This module in general is not limited to a specific number of students. But every student will be part of an international/national project team. These project teams have limited numbers according to the project, in general not more than 3-5 participants per country, total places per project team 6-10 participants. Each semester are offered 10-15 projects. So, the number of participants is every semester limited to the available places in project teams.

Therefore the interested students have to register on the website.

In the kickoff and the first 2 weeks the project teams are matched.

Recommended reading, Lecture notes

Lecture notes:
unavailable

Electronical lecture notes :
unavailable

Assigned Degree Programs

This moduleversion is used in the following modulelists:

Naturwissenschaften in der Informationsgesellschaft (Bachelor of Science)

StuPO 2018

Modullisten der Semester: WiSe 2022/23 SoSe 2023

Physikalische Ingenieurwissenschaft (Bachelor of Science)

StuPO 2020

Modullisten der Semester: WiSe 2022/23 SoSe 2023

Physikalische Ingenieurwissenschaft (Master of Science)

StuPO 2020

Modullisten der Semester: WiSe 2022/23 SoSe 2023

Regenerative Energiesysteme (Master of Science)

StuPO 2009

Modullisten der Semester: WiSe 2022/23 SoSe 2023

Students learn to place knowledge and actions in an overarching social and cultural context and to consider ethical consequences of actions in order to be able to contribute to sustainable development. Therefore this module is suggested for study programs of all disciplines to fulfill the requirement of study contents in this field to the extent of at least 12 LP by the end of the degree programme.

Students of all national and international partner universities can take part in this module

Miscellaneous

Linked to the Global Center for SDG and Climate Engagement Project, Greening Africa Together African based CO₂Compensation and the Climate Partnerships TU Berlin-Greening Africa Together

Partner countries: Benin, Burkina Faso, Cameroon, Chad, Columbia, DR Congo, Ghana, Kenya, Senegal, Turkey, Togo, Uganda, Yemen
Food and accommodation are covered during the excursions, travel costs have to be covered by students. Some travel scholarships might be available.