

Transform It!

The Carbon Market, offsets/compensation, sustainability and the circular economy.

Key projects

Transforming CO2 emission reduction schemes and carbon offset ideas into realizable projects.

Short text

Over 10 workshop sessions, about 8 students were able to get an overview of carbon reduction strategies, compensation strategies as well as get the basics of Carbon markets and carbon offsets. The other part of the course was designed to enable participants get the best practices circularity and carbon compensation projects within the context of developing countries with a connection to the various global carbon standards. The goal of the course was to give students the skills to work within sustainable projects and topics, reason why the course ended with students designing their own viable carbon offset projects or map a corporate sustainability scheme in a given scope and present to the rest of the class.

This project was carried out by Tanyi Franç-Martial and Nubaira Nova, 2 masters student from the MIDE Program.

Here is the [detailed project overview](#)

Course perspectives, feedback & outcomes

With current trends in the global warming debate, climate justice, CO2 reduction strategies as well as economies striving for a more circular economy, the course involved a lot of debates and participation from students concerning their various points of view. While moving from the general case studies of climate impact and actions in Germany and the EU, participants also had the chance to compare climate mitigation policies in other parts of the world. Another part of the course was to empower the students with an understanding of how different carbon markets work. In doing so, participants were able to not only understand the European carbon credit market (EU emissions trading system-EU ETS), but were also able to approximately determine various footprint profiles at country, city, corporate, household, and personal levels using recommended specific tools. This was important as it gave them the required skills to work as corporate social responsibility coordinators for industries, sustainability officers for organizations as well as policymakers at a global level.

Participants also had a review of case studies in various industries like the aviation and fashion industries to understand how these industries tackle the global warming problem.

Topics covered in the course included carbon compensation, carbon markets, Global mitigation strategies, carbon offset standards, carbon footprint profiles, Berlin sustainability review, sustainability in developing countries, recycling, energy transition as well as the circular economy.

The course as well highlighted the following question;

1. How could a carbon offset scheme be implemented in developing countries?
2. What are the risks to be considered when carrying out a compensation project?
3. What are the benefits of various compensation projects?
4. Climate change, who is responsible?
5. How do companies in Europe interact within the carbon market?
6. How do specific industries fight against or contribute to global warming
7. How can I estimate a company's carbon footprint emission?
8. What are the various ways that exist for companies to compensate for their externalities?
9. Why do developing countries suffer the effect of climate change more than developed countries?
10. Is recycling really sustainable?
11. How can an economy gradually transition to cleaner energy?

It is worth mentioning that students had the chance to exchange with an actor in the field of policy-making from the Berlin city administration over a guest speaker session. Kyra Reiter, Sustainability officer from the Berlin Convention Office was happy to discuss with participants on actions taken in Berlin to make the city greener as well as to make events in the city more sustainable. Students also had the opportunity to connect with Kyra for eventual job opportunities within the city in case they may be interested in having some working experience in the field of sustainability.

General feedback from students: Most of the students loved the topics as well as the questions brought upon for debate. Some were already working within the field of sustainability so could understand the topics and were active participants.

Photos

Profiles

- Novak Djokovic
- Profession: Tennis Player
- Birth place/Nationality (Serbia)
- Residence: **Monte Carlo**
- Endorsement : **Peugeot, Asics, Head, Lacoste, Netjets**
- **Gross Earning(PM): 9,100,547 Euros**
- **Net earnings(PM): 9,100,547 Euros**
- **Total Earnings (PM+Endorsments) : 38 M Euros**
- **Net Worth: 220+ M Euros**
- **62 Tournaments in 2021**



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17



Who exactly cause Climate Change

- Task Build a (carbon footprint profile)
- Identify the profiles of those causing the most pollution, emissions, consumption.....

- Based on Age
- Work
- Country/Location
- Earnings
- Professions
- etc



Transform It! Sustainability and Circular Economy

Topic: **Carbon Emission Reduction Strategies**

- Nubaira Tajrin Nova & Tanyi Franç Martial
- Prof. Dr. Julia Schwarzkopf

Date: 25/04/2022

htw
Hochschule für Technik und Wirtschaft Berlin
University of Applied Sciences

Excel interface: Welcome to the Mitigation Goal Standard Tool

Grid: A-W, 1-33

Navigation tabs: Welcome, Define Goal Boundaries, Choose Goal Type and Goal Period, Decide on Transferable Emissions Units, Define Goal Level, Base Year or Baseline Scenario Emissions, Land Sector Accounting, Allowable Target Year Emissions, Reporting Year Emissions, Assessing Progress/Achievement, Reporting

Welcome to the Mitigation Goal Standard Tool
An accounting and reporting standard for national and subnational greenhouse gas reduction goals

MGS Tool v1.0
1st December 2016

The objective of this tool is to help the user through the steps required to design and assess a mitigation goal, including accounting and reporting.
The tabs across the top are organized by chapter to help you work through the steps detailed within the Mitigation Goal Standard.

[Go to GHG Protocol website](#)

Overarching steps	Detailed steps	Chapter
Define goal/methods	Design a mitigation goal	4
	Estimate base year or baseline scenario emissions	5
	Account for the land sector	6
Calculate allowable emissions	Calculate allowable emissions in the target year(s)	7

How to use this tool:

Assess progress during the goal period

Navigation tabs: Welcome | Define Goal Boundaries | Describe Goal Type | Transferable Emission Units | DefineGoalLevel(by) | DefineGoalLevel(bs) | DefineGoalLevel(fl) | DefineGoalLevel(tbye) | Base(fl) ...

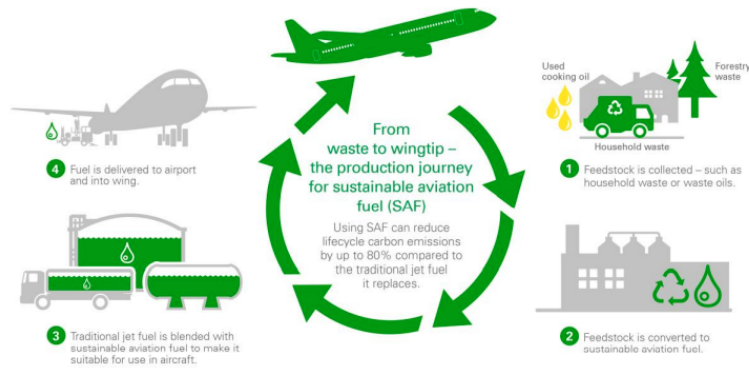



Today's Agenda:

- **CARBON OFFSET STANDARDS (Part 1)**
- Carbon footprint profile (Cont.)
- Carbon Offset projects Overview
- Carbon Offset international/reporting standards
- The GHG Protocol Standards
- CASE STUDY- THE AVIATION INDUSTRY-Global leader in emission or global leader in emission reduction?

2

How is sustainable aviation fuel made?



 **airbp** Fuelling a sustainable future

Case Study-The Aviation industry

- How Airlines can chart a path to Zero-Carbon flying (McKinsey 2020)

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18

Climate Partner- Highlight

ClimatePartner

Success stories Carbon offset projects Services ClimateMap About us

Hydropower, Virunga, D.R. Congo

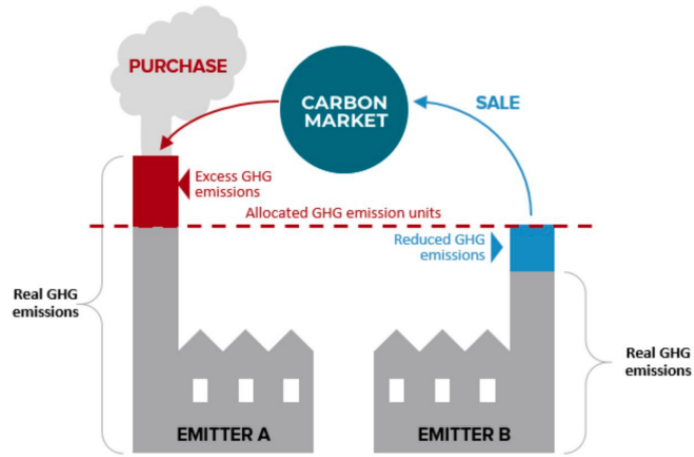
Wind Energy in the Caribbean

Water Treatment India

Clean water for Madagascar

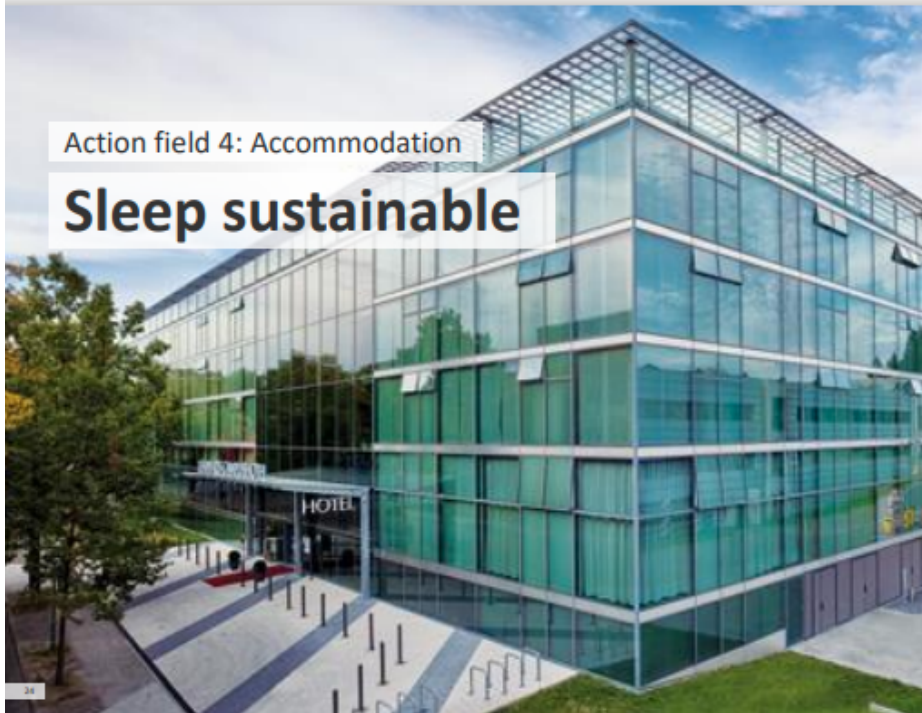
How the ETS Works

How an emission trading system works



Action field 4: Accommodation

Sleep sustainable



34

Average consumption per night



357 l water



76 kWh energy



5 l waste



27 kg CO₂

Foto: Jeroen van Oomschoten/Berlin

Action field 5: Catering

Seasonal, regional, veggi



35

CO₂ emissions from catering



1 kg vegetable
0,2 kg CO₂



1 kg chicken
3,7 kg CO₂



1 kg beef
12,3 kg CO₂

BERLIN QUESTIONS
RETTET JETZT ESSEN MIT
TOO GOOD TO GO



LAD E D I R D I E A P P H E R U N T E R U N D
R E S E R V I E R S D I R D E I N E Ü B E R R A S C H U N G S T Ü T E

GERMANY

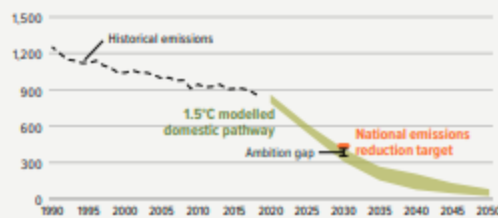


NOT ON TRACK FOR A 1.5°C WORLD

1.5°C Germany's national target is to reduce emissions 65% below 1990 levels, or to approximately 437 MtCO₂e, by 2030. To keep below the 1.5°C temperature limit, Germany's 2030 emissions would need to be around 354 MtCO₂e (or 72% below 1990 levels), leaving an ambition gap of 83 MtCO₂e. All figures exclude land use emissions.

Gütschow et al., 2021; Climate Analytics, 2021

1.5°C compatible emissions pathway (MtCO₂e/year)¹



PER CAPITA GREENHOUSE GAS (GHG) EMISSIONS ABOVE G20 AVERAGE

GHG emissions (incl. land use) per capita (tCO₂e/capita)² in 2018



Germany's per capita emissions are 1.34 times the G20 average. Total per capita emissions have decreased by just under 9% between 2013 and 2018.

Climate Action Tracker, 2021; Gütschow et al., 2021; United Nations, 2019

KEY OPPORTUNITIES FOR ENHANCING CLIMATE AMBITION



Accelerating coal phase-out to before 2030, followed by natural gas phase-out by 2035, complemented with a rapid scale-up of renewables development.



Moving back the date of the ban on installing oil heating to 2022 and broadening it to include gas heating. A ban on the operation of existing oil heating by 2030 and natural gas by 2035 should be considered.



Decarbonising the transport sector by promoting public transport, electromobility, cycling and walking. Investment in railway infrastructure could accelerate a modal shift from emissions-intensive modes of transport.

RECENT DEVELOPMENTS

- ✓ In June 2021 the German parliament adopted an amendment of the Climate Protection Law, **increasing the 2030 emissions reduction target from 55% to 65%** and bringing forward the goal of reaching "climate neutrality" to 2045.
- ✓ The **Climate Protection Emergency Programme 2022** provides EUR 8bn to decarbonise industry and transport, and increase the energy efficiency of buildings.
- ✗ The government **failed to propose an amendment of the Renewable Energy Act** that would accelerate the development of renewables to reflect the new emissions reduction goal.

Deutscher Bundestag, 2021; Die Bundesregierung, 2021a

CORONAVIRUS RESPONSE AND RECOVERY

Germany allocated approximately USD 100bn, equivalent to 2.6% of the country's GDP, to recovery efforts. Green spending accounted for 47% of the country's recovery spending. The largest allocation has been towards the creation of "green markets", clean energy infrastructure development, and incentives for electric vehicles (EVs).

Global Recovery Observatory, 2021

Sustainable Berlin

We continue to evolve

„Code of sustainability“ Self-commitment (LEISURE & MICE)	Sustainable Tourism Berlin Programme & Certification (LEISURE)	Sustainable Meetings Berlin Programme & Certification (MICE)
<ul style="list-style-type: none">• What: Guiding principles as a voluntary commitment to make sustainable engagement visible• Goal: Entry into sustainable transformation, achieve broad commitment of the sector	<ul style="list-style-type: none">• What: Certification system by means of a process-oriented set of criteria and external auditing; implementation of a sustainability management system• Goal: Support industry players in sustainable transformation, up to and including certification	<ul style="list-style-type: none">• What: Certification system by means of a process-oriented set of criteria and external auditing; implementation of a sustainability management system• Goal: Support industry players in sustainable transformation, up to and including certification
in development	in development	



We are happy to get in touch:

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At the end of the course, students had the opportunity to apply all the practical skills learned during the course by gathering ideas and working on offset projects of their own and later presenting it to other participants.

1. Location, Problem, Solution

Gidole / Village in Central Ethiopia



- Population: 14.799



- Rural area: 500 km south of the capital „Addis Abeba“



- 25% of population have access to electricity
- 10% in rural areas
- 1% of population connected to the power grid
- Unstable electricity network
- 12,8% of population using off-grid solutions
- Widespread lighting method: kerosine lamps



- Off-Grid solution/project using sun-power
Implementation of **SHS (solar-home-systems)** for private households, the local medical center and the elementary school

- Droughts & floods

- Grasshopper plague

- Increasing population

- Corona

