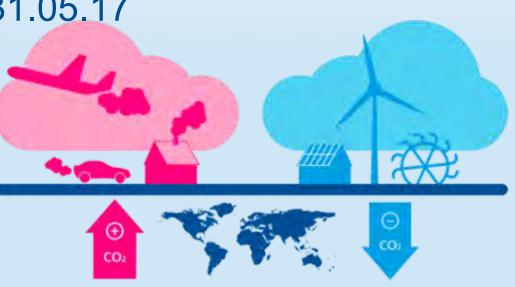
myclimate Deutschland gGmbH



climate protection & sustainable development – YES WE CAN!

Green Bug Lecture, 31.05.17 Uni Hohenheim

Stefan Baumeister Managing Director



Climate change – Climate change – Climate change – Climate change of the 21st century





Quelle: amsterdamadblog.com



content

- Climate change / the global picture
- myclimate profile
- GHG-Emissions: avoid reduce compensate
- CO₂-compensation:
 - mechanism, climate protection projects and their benefits
- Best practice cases from companies

Political Agenda

- 1988 World Climate Change Conference in Toronto, Founding of IPCC
- 1997 Kyoto Protocol, Period I (2008 2012)
- 2012 Kyoto Protocol, Period II (2013 2020)
- 2015 COP Paris: New legally binding global agreement (post 2020)
 - Keep global warming below 2°C
- 2015: agreement on global SDGs
 - 17 sectors
 - period 2015 2030
 - For all countries







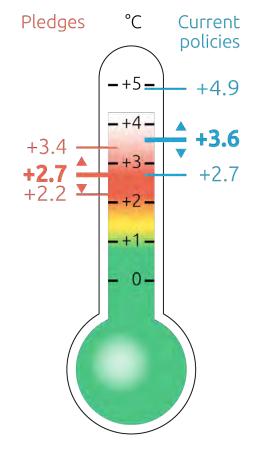




Still lot's of work to do!

Global climate-thermometer:

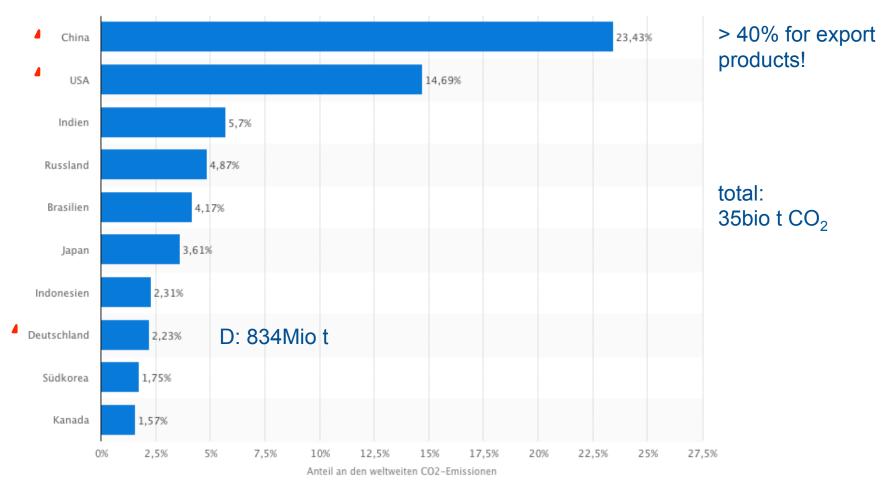
- Current political measures lead to
 +3.6°C global warming
- Full realization of all country pledges leads to +2.7°C
- goal: < 2°C</p>



Climate Action Tracker (Stand Dez. 2015)



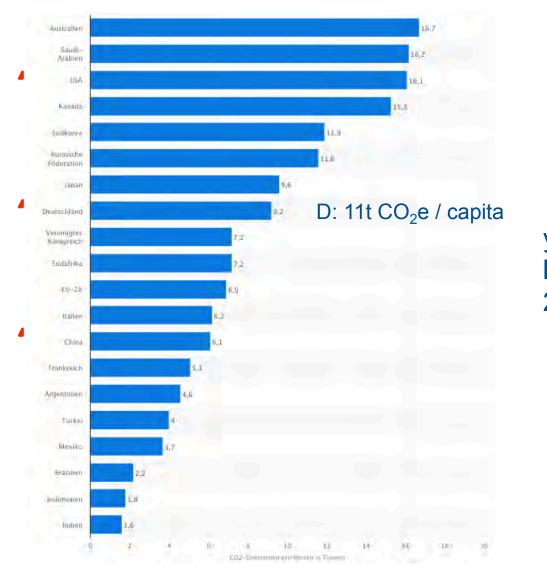
CO₂-emissions per country 2014



source: Statista 2015



CO₂-emissions G-20 per capita 2014



yearly budget / capita in line with Paris agreement: 2t CO₂e!

Quelle: Statista 2015



myclimate profile

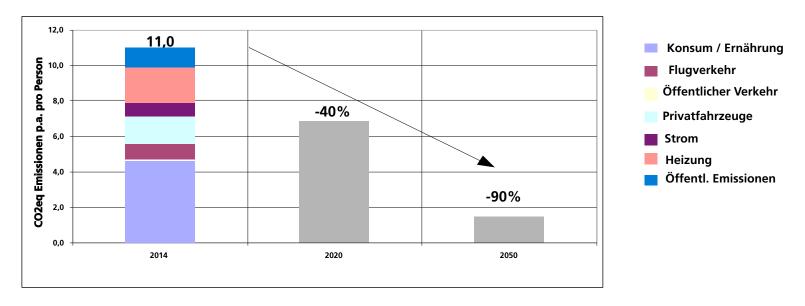
- Non-profit foundation in Zürich
 - Founded in 2002 as ETH Spin-Off
 - HQ in Zurich (50 staff)
 - turnover 2015: 12Mio Euro
- Non-profit entity (gGmbH) in Germany since 2009
- 8 other ventures globally
- goals:
 - climate protection (measureable, efficient)
 - Sustainable development
- Internationally renowned patronage committee





Our vision: net-zero emissions society

- Reduction of GHG-emissions in your own decisions & influence area
- Compensation of non-avoidable GHG-emissions in high-quality climate protection projects





myclimate – activities





Climate education

Consulting & Services

Carbon compensation via climate protection projects



myclimate CO₂-calculators

Footprint

Calculate and compensate for your CO₂ footprint



Flight







Company



Event





www.myclimate.de

Car

You can only manage what you measure!



How many GHG-emissions for a flight ...

- Stuttgart New York (retour, econ.):
- Stuttgart Mallorca (retour):
- Frankfurt Sydney (retour):

 yearly budget per person in line with Paris Agreement:

2,34t CO_2e 0,50t CO_2e 6,90t CO_2e

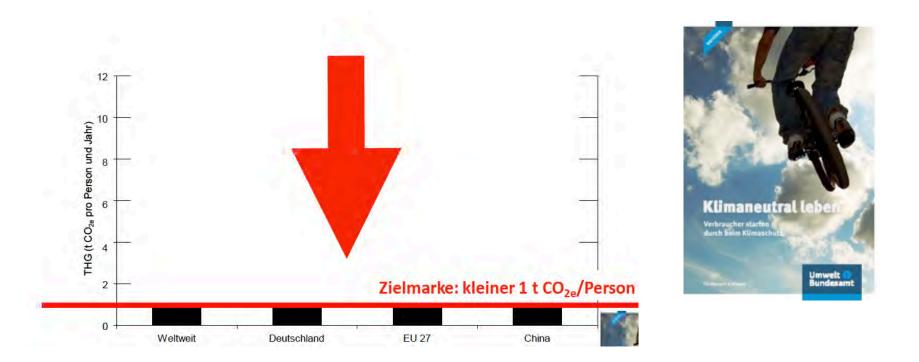
2,00t CO₂e





Live with net-zero emissions?

without voluntary compensation out of reach!



Source: Umweltbundesamt

KLIMAWERKSTATT (mycli - Energy & climate in technical education





Ausgezeichnet durch den NACHHALTIGKEITSRAT



- Target group: apprentices
- Competition with awards for winning teams
- Climate protection projects in the company or technical school or in every-day life
- Apprentices create own, innovative solutions for the future
- Interconnection between job, energy and environment becomes touchable / clear
- 1000 apprentices, over 180 realized projects
- www.klimawerkstatt.org



Energie- und Klimapioniere



- www.energie-klimapioniere.de
- teens (scholl classes 5-11)
- Do capacity building and motivate to realize own projects



Consulting and Solutions

- For companies & organizations
 - CO₂ assessment and reporting
 - CO₂ performance management and benchmarking
 - Industry solutions: printing, transport, hotels...
 - Efficiency of energy and resources
- For products & services
 - Carbon footprints and life cycle assessments
 - Climate neutral products and services
 - Eco-design and labelling
- IT solutions
 - performance platform
 - booking platform









Corporate Carbon Footprint (CCF)

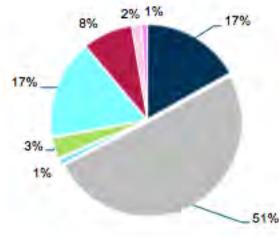
t CO ₂	
200,00	
600,00	
10,00	
5,00	17%
40,00	
0,00	
200,00	3%
100,00	1
20,00	
10,00	
1185,00	
	200,00 600,00 10,00 5,00 40,00 0,00 200,00 100,00 20,00 10,00

Tabelle 1: Treibhausgasemissionen aufgetrennt nach Kategorien für das Jahr 2014.

- Measure: status quo, basis for improvements
- Avoid / reduce
- Compensate non-avoidable GHG emissions
- communicate



No. 01-13-889671 – www.myclimate.org





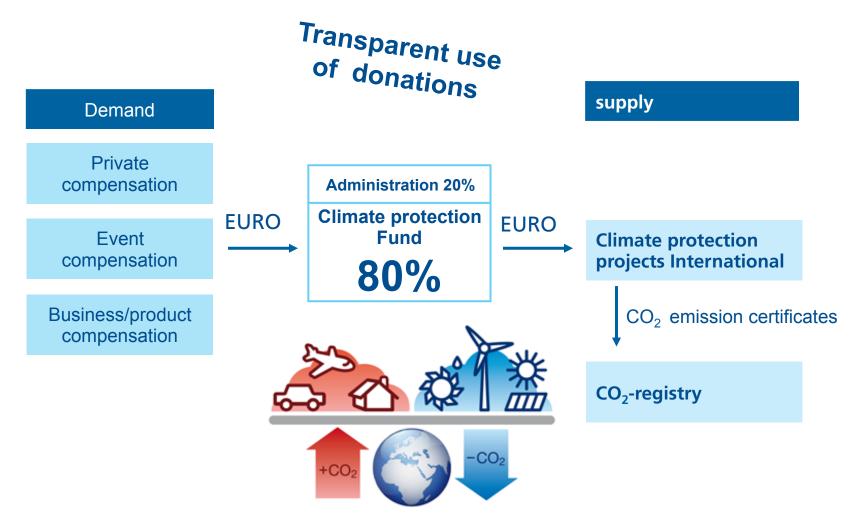
Product Carbon Footprint

- GHG calculation, analysis of improvement potential
- myclimate Label if emissions are compensated





The carbon compensation process







Climate protection projects: 10 technologies, 30 countries 5 continents Chose from a huge portfolio of projects complying with the strictest quality standards



Climate protection projects

- Verified emission reductions
- High quality projects
 - Clean Development Mechanism
 - Gold Standard and Plan Vivo (forestry)
- Additionality
 - Projects need financial funding from emission reduction sale
- Sustainability
 - Inclusion of and benefits for the local population, jobs, technology transfer, improved air-, water- and soil-quality



Your commitment with myclimate contributes to reaching the UN's 17 sustainable development goals (SDG)

THE GLOBAL GOALS

For Sustainable Development











Solar Energy for Education and Jobs





Tanzania

Socio-economic benefits

- Powering homes with solar energy
- More education and jobs thanks to light and electricity
- Micro-finance system: A mobile banking solution allows costs to be paid in instalments over 36 months – even by distant relatives
- Monitoring: A GSM modem integrated into the solar controller enables maintenance problems to be identified.

Ecological benefits

Replacement of kerosene lamps

Gold Standard



Impacts and Benefits achieved



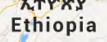
- The project has over 150.000 beneficiaries
- 350 jobs created
- 280 freelance marketing agents
- Over 40.000 solar systems distributed since project start
- Over 700 beneficiaries trained on solar installation
- 24 market hubs and information centres in Tanzania

2,5 bio

Size of Greece

South Sudan

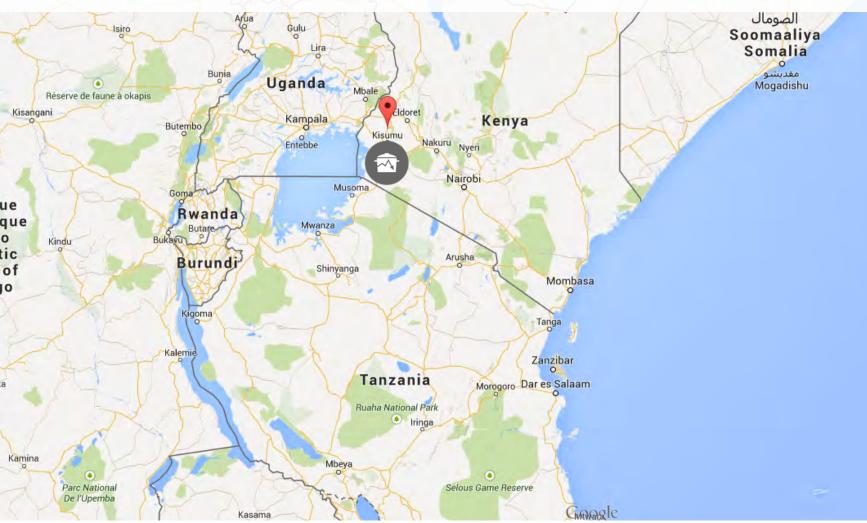
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جالکاکیو Galkayo

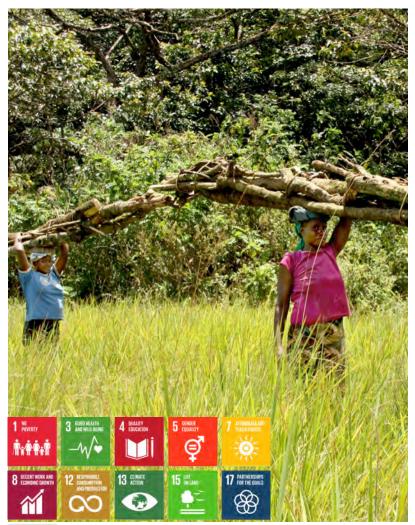
Less deforestation in Kakamega rainforest, Video

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Less deforestation in Kakamega rainforest



🖄 Kakamega, Kenia

Socio-economic benefit

- 400 jobs
- Time- and money savings
- Better health
- income generation thanks to locally produced efficient cook stoves
- Girls go to school regularly
 Ecological benefits
- 143.000t CO₂ avoidde
- 85.000t forest protected (250ha)
- Protection of biodiversity/rare species

The Gold Standard



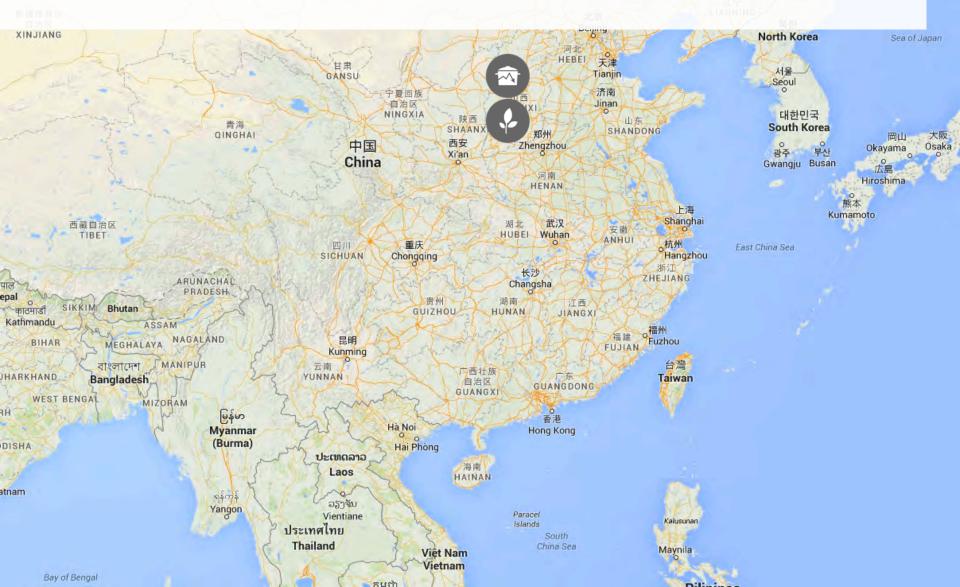
Mongolia

адивосток

HEILONGJIANG

哈尔滨 Harbin

Cooking with Corn Cobs instead of Coal



130.000 installed stoves have saved over 900.000 tons of charcoal so far.

5: 1



Impacts and Benefits Achieved



- 130,000 stoves have been installed in three provinces.
- 138 jobs have been created (17% women).
- More than 900.000 tons of charcoal have been avoided since the start of the project.
- Households save USD 1.000-1.500 on fuel over the stove's five year lifetime.
- Each stove avoids about 5 t CO₂ per year.
- Households save EUR 80 for every Euro spent on the stove.

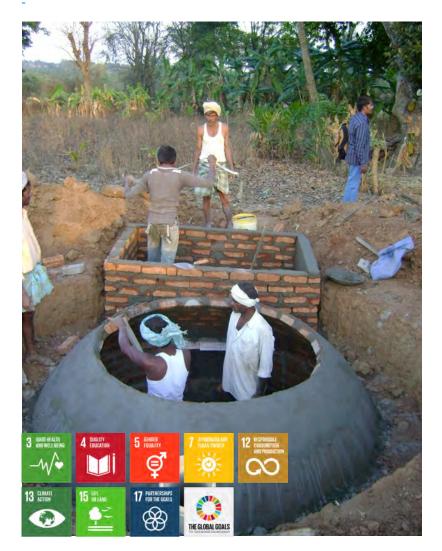
115.000 solar and efficient cookers installed in Madagascar

ADES

Cooking with biogas in India, Nepal and Indonesia!



Biogas for rural Households





Rural areas, India

Socio-economic benefits

- Improvement in health
- Saves time and money
- More time for school and business

Ecological benefits

- Replaces firewood, kerosene or liquid gas
- Biological fertiliser vastly increases harvest
- Less deforestation
- Methane reduction

Gold Standard^{*}

 \rightarrow zur Website

780 mio





Clean drinking water for schools





Uganda

Socio-economic benefits

- Clean drinking water > less worm infections and diarrhea
- Regular school visits
- Money savings
- New business models (pay-asyou-use)

Ecological benefits

- Less deforestation: 40t less firewood per school and 1,7t less per houshold
- Less GHG-emissions

The Gold Standard

4,4 million beneficiaries 7.700 jobs created 1,7 million trees planted 470.000 efficient and solar cookstoves installed 1 million t of coal substituted 130 million I diesel saved **Gold Standard** 1,5 million t of wood preserved





Case: Michael Müller publishing



- 600.000 travel guides
- CO₂-compensation of all printing emissions
- 1 content page in every travel guide about the supported project



Case: Stadthalle Reutlingen

Stadthalle Reutlingen wird immer grüner

REUTLINGEN. »Als erste Veranstaltungsstätte führt die Von Andrea Glitz Stadthalle Reutlingen Veranstaltungen ab sofort gänzlich klimaneutral durch.« Was sich hinter dieser Ökoprospekttauglichen Verheißung verbirgt, erläuterten Stadthallenmanagerin Petra Roser und Prokurist Sandro Zimmermann in einer Pressekonferenz.



Imagegewinn durch Klimaschutz

Die Stadthalle als Vorbild in Sachen Ökologie und Klimaschutz: Als erste Veranstaltungsstätte in Deutschland wird es dort ab sofort Veranstaltungen geben, die gänzlich klimaneutral sind.

JÜRGEN SPIESS | 11.07.2014 2 🗗 0 🏏 0 💥 風风 0 MEINUNGEN

Very positive image thanks to climate neutrality!

- First event location in Germany with all events being climate neutral
- Measures for CO2-reduction
- Compensation of nonavoidable GHG-emissions
- Award as top event location in Germany



Case: Kyocera Document Solutions



«Gemeinsam mit myclimate haben wir stufenweise das Vorgehen auf dem Weg zur Klimaneutralität festgelegt.» *Antje von Drewitz, Geschäftsführerin Vaude*

NAUDE

- Climate-neutral headquarters
- Climate-neutral products



Case: ALDI Suisse





Case: Barmenia Insurance



The path towards net zero emissions te Do the best – Compensate the rest!

			RUCK
Increase of energy efficiency			FUSSABDRUCK
			EU EU
CO ₂ - compensation			
compensation			
Renewable energies (power, heating, mobility)			
47	ZEIT		



How many GHG-emissions for a flight ...

- Stuttgart New York (retour, econ.):
- Stuttgart Mallorca (retour):
- Frankfurt Sydney (retour):
- yearly budget per person in line with Paris Agreement:
- Would you compensate the GHG emissions? Up to which amount (€)?
- If long-distance trip, then
 - Not every year
 - Stay longer in destination
 - Take responsibility and compensate GHG emissions

2,34t CO_2e 0,50t CO_2e 6,90t CO_2e

2,00t CO₂e





- 50-70%

Amount of GHG emissions ...

4000kWh electricity:	
- German power mix:	2t CO ₂
- green power:	Ot CO ₂
heating:	
- 1500l oil:	4,78t CO ₂
 3000kg wood pellets: 	0,24t CO ₂
Recycling paper vs. Fresh fiber paper:	- 20%

Laptop vs. Desktop:

49

Tipps for avoiding / reducing GHG emissions ...



- Mobility:
 - Fly less!
 - Replace flights < 1000km by public transport / car
 - Public transport instead of car
 - Car / travel policy for companies
- 100% green energy
- Energy efficiency:
 - Save power / heat: 30-50% potential!
 - Saves cost as helps our climate!
- Consumption:
 - Food, thumb-rule: organic, seasonal, regional
 - Paper: recycling, print double-sided



... and compensate the rest!

Footprint

Calculate and compensate for your CO₂ footprint



Flight





Car



Company



Event

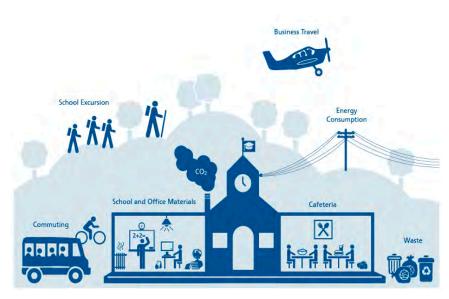


www.myclimate.de

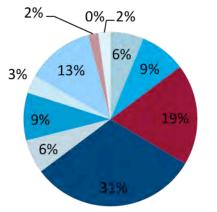
Your small donation does have a big impact!



CO₂-Balance for Uni Hohenheim?







Carbon Footprint of Nydalen Campus

Meat and Fish
Fruit, Vegetables and Dairy
Beverages
Office Materials
House Cleaning and Sanitary Articles

Business Travel and Accomodation

Energy Consumption
 Commuting Employees

Commuting Students



There is no good, unless you do it!

Thank you very much for your attention!

Stefan.baumeister@myclimate.org www.myclimate.de

