

Climate Friendly Climate Research

Adam Pawloff

Centre for Global Change & Sustainability,
BOKU Vienna

Climate Friendly Climate Research – powered by



Climate

&



Bundesministerium für
Wissenschaft, Forschung und Wirtschaft



What's the problem?

- **70,000** Tons of CO₂
 - COP 15, Copenhagen



Climate Friendly Climate Research – powered by



&



What's the problem?

- **70,000** Tons of CO₂
 - COP 15, Copenhagen
 - 1,000 Tons of CO₂
 - Every IPCC Meeting
 - European Geosciences Union
 - American Geophysical Union, fall meeting
 - Society for Neurosciences
- 13,500 round-rail-trips,
Vienna-Potsdam**
- 11,200, 20,000 + 30,000 participants
 - 1 ton CO₂/participant, travel emissions (conservative)

Climate Friendly Climate Research – powered by



Climate

&



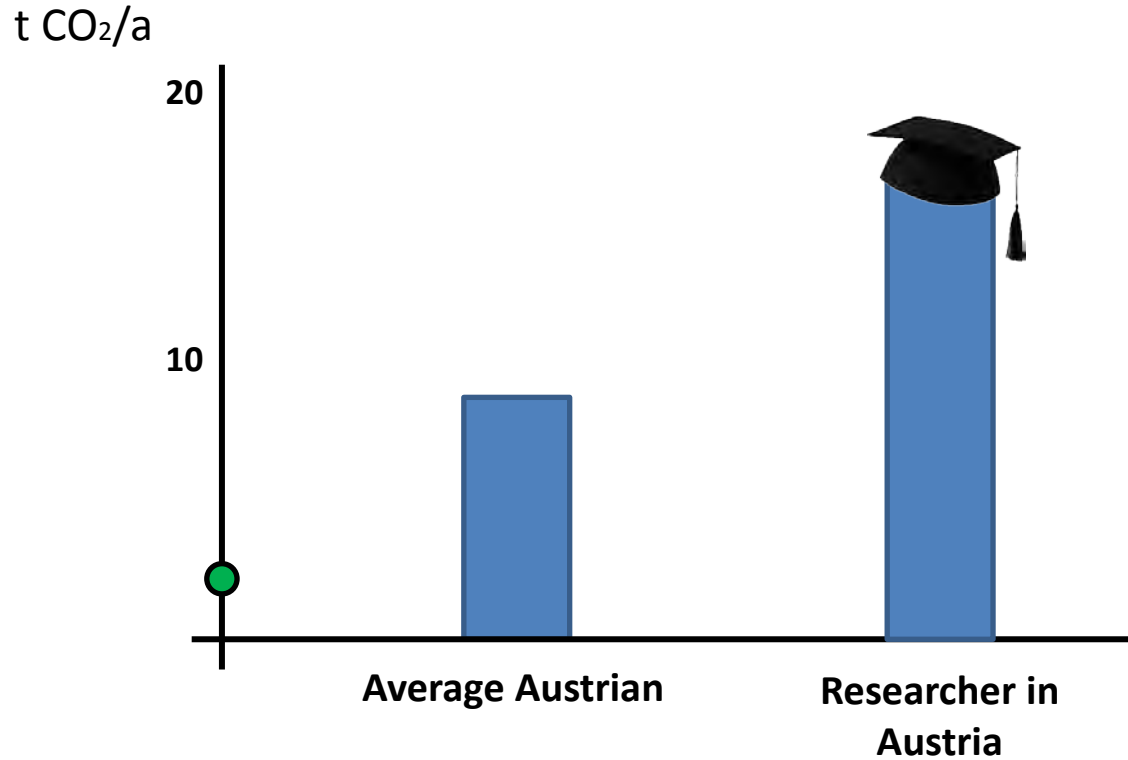
Bundesministerium für
Wissenschaft, Forschung und Wirtschaft



UNIVERSITÄT
SALZBURG



CO₂ FOOTPRINT RESEARCHER



Climate Friendly Climate Research – powered by



&



CFCR Project

- Addressing the question of how we conduct research ?
 - Responsibility / Consistency
- Project in the context of JPI CLIMATE + Alliance of Sustainable Universities in Austria
- Results – 3 Policy Briefs, 5-day virtual conference
- JPI Call / Austrian climate research program

Climate Friendly Climate Research – powered by



&



“Does flying around the world to conferences suggest a real and urgent concern for the effect of greenhouse gas emissions on the climate?”

(THOMPSON 2011)

Climate Friendly Climate Research – powered by



Climate

&

bmwfw
Bundesministerium für
Wissenschaft, Forschung und Wirtschaft



WU
WIRTSCHAFTS
UNIVERSITÄT
WIEN VIENNA
UNIVERSITY OF
ECONOMICS
AND BUSINESS



UNIVERSITÄT
SALZBURG

**ALPEN-ADRIA
UNIVERSITÄT**
KLAGENFURT | WIEN | GRAZ



United Nations
Framework Convention on
Climate Change

UNFCCC Webcast

COP 18 / CMP 8
Doha, Qatar

WEBCAST MAPPAGE | UNFCCC HOME | HELP

LOCAL TIME: 08:59:14 AET
QUARTER: 02:10:11

On-demand Webcast

“The Kyoto Protocol has not proven to be particularly effective at anything of consequence-except perhaps flying government officials around the world to enjoy exotic places like Bali, Poznan, Buenos Aires, Cancun, and Doha.”

RUCKER 2012

BLEISCH
NZZ
19.10.2009

Agenda

Doha Climate Change Conference - November

Press briefing

Doha, Qatar
Thursday, 8 December 2012

Committee for a Constructive Tomorrow

The future of climate and energy policy featuring Lord Christopher Monckton and
James Hansen

Heute Paris, morgen Boston: Wie viel Fliegen für die Forschung darf es sein?

Die Hochschulen tun sich schwer mit einer Reduktion ihrer CO₂-Emissionen

Mit der Globalisierung hat auch die internationale Forschungszusammenarbeit zugenommen. Dass diese auch ökologische Probleme zutage fördert, ist an den hiesigen Universitäten jedoch noch kaum ein Thema.

Barbara Bleisch

Wenn Studierende und Dozierende ihre Koffer packen, um an einer ausländischen Universität während eines oder mehrerer Semester ihren Horizont zu erweitern, ist dies unbestritten zu begrüssen. Etwas anders wird das Phänomen

möglich sein.

An den Universitäten Bern, Basel und Lausanne klingt es ähnlich: Die Universitäten kompensieren die Flüge ihrer Angestellten nicht und geben an, keine konkreten Anreize für ein ökologisches Reiseverhalten zu setzen. Alle genannten Universitäten begrüssen es jedoch gemäss ihren Medienbeauftragten, wenn einzelne Angestellte oder Institute freiwillig einen Beitrag leisten. Hans Sefring, Leiter Öffentlichkeitsarbeit an der Universität Basel, nennt als solche gute Vorbilder beispielsweise Vize-Rektor Alex N. Eberle, der aus ökologischen Gründen sogar nach England stets mit dem Zug reise, sowie Professorin Patricia Helm. Nachfolgend das

Anders die Universität Bern: Wie Hansruedi Müller, Direktor des Berner Forschungsinstitutes für Freizeit und Tourismus, meint, verlangt die Universität, dass für Dienstreisen stets das preisgünstigste Transportmittel gewählt werde. In Zeiten der Billigflüge sei dies in vielen Fällen nicht die Bahn. Müller kompensiert deshalb auf freiwilliger Basis die Flüge der Mitarbeitenden seines Instituts und fordert sie persönlich dazu auf, nach Möglichkeit die Bahn zu benutzen. So viel teurer komme dies das Institut nicht zu stehen: Wer beispielsweise im Nachzug schläfe, spare gegenüber jenen, die fliegen, oft eine zusätzliche Übernachtung.

Bloomberg.com | Businessweek.com | Bloomberg TV | Premium

Bloomberg Businessweek

Global
Economics

Companies &
Industries

Politics & Policy

Technology

Markets &
Finance

Inno
Desi

Al Gore's Carbon Footprint Is Big.

Posted by: Bruce Nussbaum on February 27, 2007

I've wanted to write a piece on the carbon footprints of famous people who are for and against global warming because I've noticed that many of them live in many houses, drive many very big cars and fly in private jets. The World Economic Forum was "carbon neutral," despite all these folks flying it to attend, because in large part donated money to third world countries to plant trees or build hydroelectric dams.

But before I could write my story, Al Gore got an Oscar for An Inconvenient Truth. I don't know

“...Al Gore got an Oscar for An Inconvenient Truth and someone did some analysis of his carbon footprint and found it was pretty big.

“...Gore deserves a gold statue for hypocrisy.”

Climate Friendly Climate Research – powered by



& **bmwfw**
Bundesministerium für
Wissenschaft, Forschung und Wirtschaft



What can we do?

- Large, institution-wide issues
 - Energy sources
 - Environmental management systems
 - Energy standards of buildings
 - ...
- Department level
 - Depending on institutional policy, autonomy with regard to IT, travel, etc.
- Individual level

Climate Friendly Climate Research – powered by



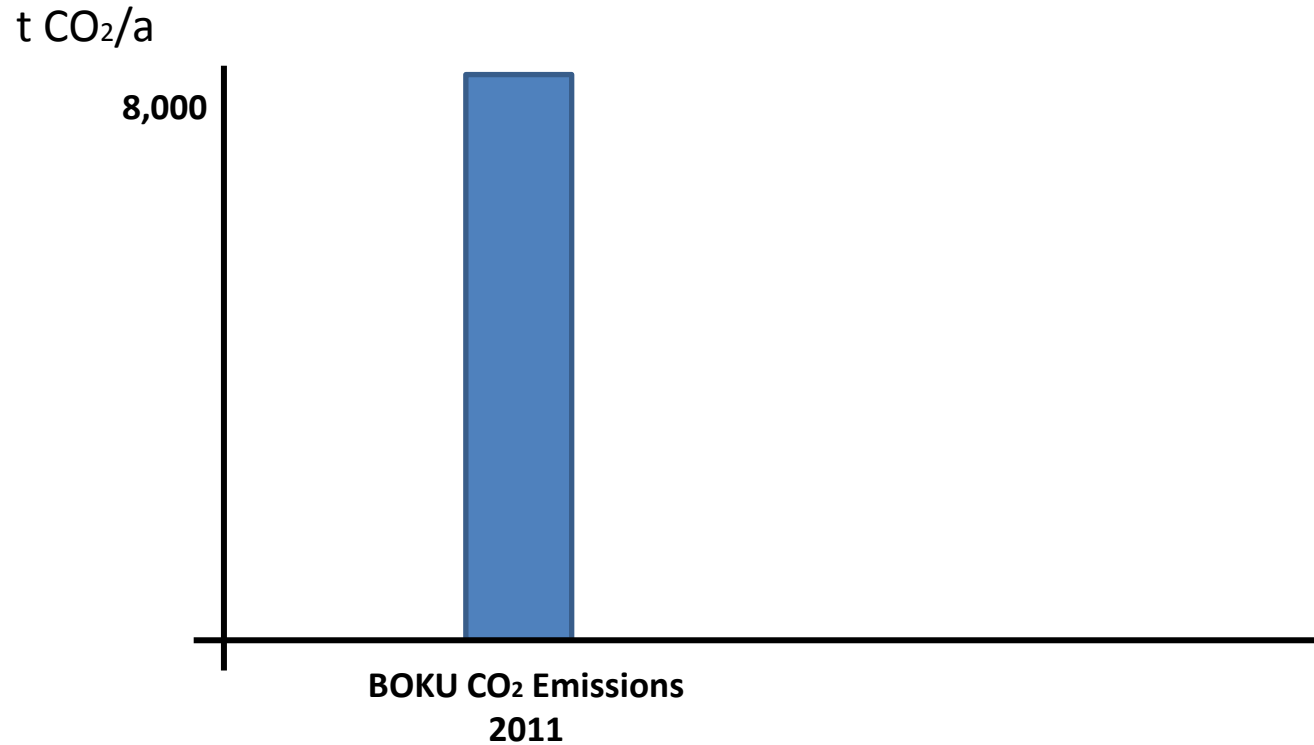
&

&

bmwfw
Bundesministerium für
Wissenschaft, Forschung und Wirtschaft



BOKU CO₂ emissions



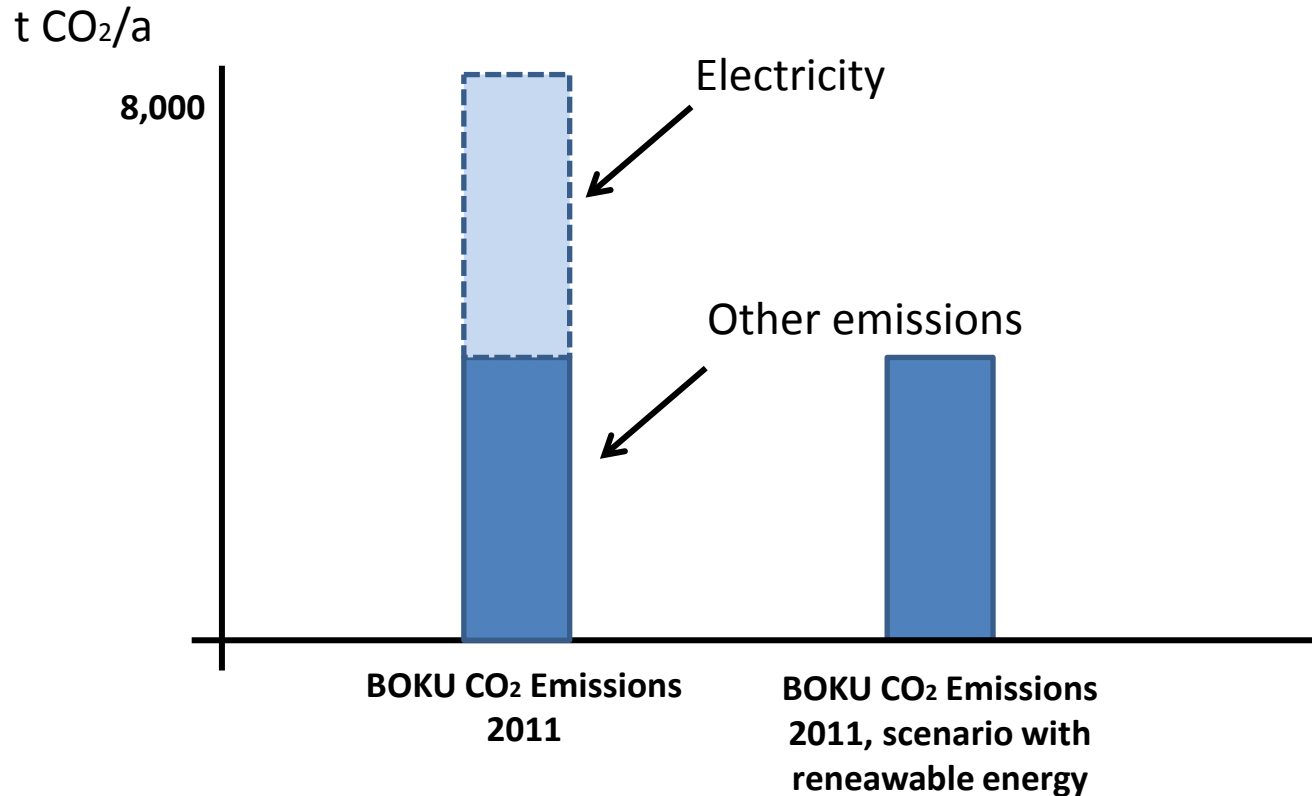
Climate Friendly Climate Research – powered by



&



BOKU CO₂ emissions



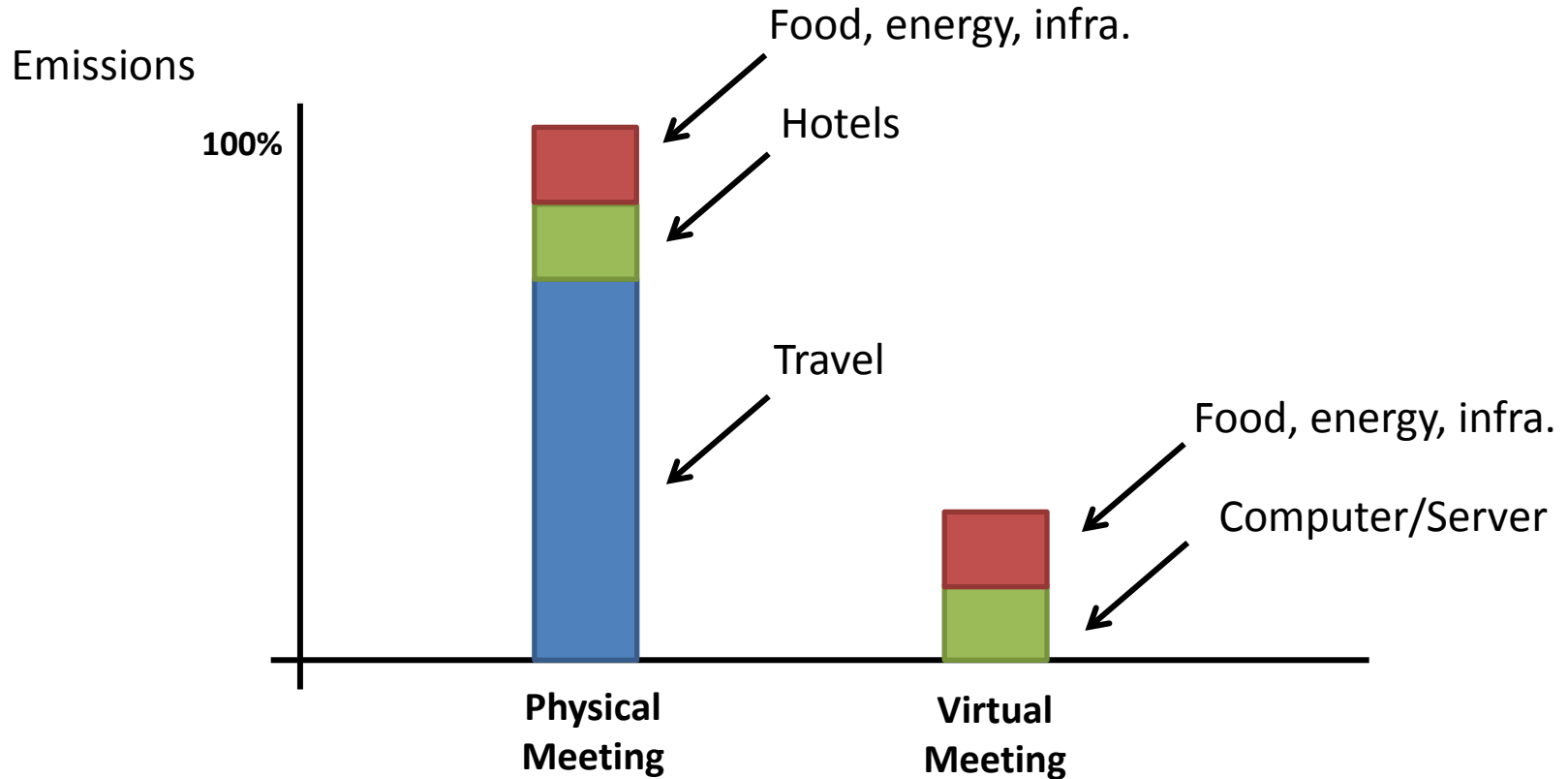
Climate Friendly Climate Research – powered by



&



Meetings compared



Climate Friendly Climate Research – powered by



&






Cheapflights™

Sources: [webdirectory](#), [lovelylaos](#), [airtravelinternational](#), [cheapflights](#)

Climate Friendly Climate Research – powered by



What can we do?



- Green meetings
- Video conferences
- Rail travel



<http://www.jpi-climate.eu/jpi-themes/climatefriendlyclimateresearch>

	1	2	3	4
Accessibility levels	"convenient"	"acceptable"	"committed"	"voluntary"
Daytime train travel:				
Duration	≤ 7h	≤ 10h	≤ 16h	≥ 16h
Earliest departure time	07:00	06:00	-	-
Latest arrival time	20:00	22:00	-	-
Max number of changes	1	2	3	-

	1	2	3	4
Accessibility levels	"convenient"	"acceptable"	"committed"	"voluntary"
Night-train travel:				
Duration	≤ 12h	≤ 15h	≤ 18h	≥ 18h
Time without interruptions	0:30 - 05:30	0:30 - 05:30	01:00 - 05:00	-
Max number of changes	0	1	3	-
Earliest departure time	17:00	-	-	-
Latest arrival time	10:00	-	-	-

Climate Friendly Climate Res





GREEN EVENT
Certification Program

Climate Friendly Climate Research – powered by





Source: infocus.com

Climate Friendly Climate Research – powered by



&



Greening events (1)

- Green event guidelines
 - hardly known (71%), but science professionals indicate the necessary, positive disposition to organize and participate in green events
 - Never organized a meeting: 80%
 - Of these: 71% (strongly) agree to organize a green event in the future, with only 6% disagreeing
- Green travel guidelines
 - Hardly existent, and if so then insufficiently
 - Long-distance bus (90%) or night trains (95%) hardly used
 - 2/3 took long-distance flights: 50% 1-5 times; 20% over 5 times
 - But: 68% did NOT take short-distance flights and willingness to refrain from short-distance flights is relatively high (61%)

Climate Friendly Climate Research – powered by JPI CLIMATE & BMWFW

Agenda: CFCR virtuelles Treffen, Dienstag 11.10.2013, 10:00

10:00 - 10:10
Begrüßungsrunde

- CFCR Kriterien in JPI Call
- Freie Sprechzeit bei Raumbuchungen an der Uni Stg. bei Green meetings
- HRESM: Greening the Universities in Austria (EMAS) - Lead bei AAU (Josef Gröchenig) - sehr gute Chancen Uni Graz - Kick-Off Meeting zu EMAS!
- Dissemination ist sehr wichtig!
- Green Meeting guidelines an VU etablieren - enge Kooperation mit Fred Lutz, auch betreffend Sichtbarmachung von NH in der Lehre an der VU!

10:10 - 10:30
Ergebnisse WP4 (Tobias)

10:30 - 11:30
CFCR Virtuelle Konferenz (David, Adam)

- Moderation einzelner Sessions
- Konferenz evaluieren?
- Bewerbung

11:30 - 11:50
Dissemination Aktivitäten (Günther)

11:50 - 12:00
Sustainability Award (Adam)

Artikel
Next Steps
Achtung!

Source: CFCR project

Climate Friendly Climate Research – powered by



Climate

&



Bundesministerium für
Wissenschaft, Forschung und Wirtschaft



- Active Speakers
- Hosts (2)
 - Adam Pawloff (BOKU, Vi...
 - David Röhler 2
- Presenters (3)
 - Harry
 - Tobias
 - Wolfgang
- Participants (22)
 - Alexandra
 - Angie Rattay, NEONG...
 - Bernhard Zigel, Uni S...
 - chris_b
 - David Röhler
 - Erica Thompson (LSE...
 - Ernst Karosser
 - Felix
 - Florian
 - Hannes
 - Jacob Haqq-Misra
 - Jan Forbrich
 - Janine
 - Katrin
 - Mandy Schönemann, ...
 - Maria
 - patricia
 - Petra
 - Sabrina
 - Stefan
 - Thilo
 - Tobias Kirchoff, WU...

the effects of? :-)

Anja Hansen, DCE, Denmark: gotto go, see you later maybe

Göran Aldman: Bye David an all! Interesting meeting. Thank you!

David Röhler 2: thank you for attending!

chris_b: bye all! Greeting from Klagenfurt!

chris_b: Hi!!!

Wolfgang: hi

chris_b: like the hangouts stuff!!

Mandy Schönemann, Boku, Vienna: not so far

Mandy Schönemann, Boku, Vienna: i think I will have to play with it later on

Wolfgang: yes, you are invited to hangout with me :-)

Tobias: lol/ yeah!

Wolfgang: @gumpelmaier on twitter

Wolfgang: or facebook

Wolfgang: etc

Mandy Schönemann, Boku, Vienna: i don't have an account yet

Moderatoren-Chat (...)

danke!

Adam Pawloff (BOKU, Vienna): technische Probleme

Dominik: um 17 Uhr endet die session oder? Weil david zweimal auf 18:30 verwiesen hat

Adam Pawloff (BOKU, Vienna): das geht dann bis 18:00, dann Pause bis 18:30 dann Second Life

Dominik: ok, ich muß dann nur um 17:15 weg.

Adam Pawloff (BOKU, Vienna): ok

Adam Pawloff (BOKU, Vienna): lass die Rüf bitte offen und den Rechner an, danke!

Adam Pawloff (BOKU, Vienna): Tür

Dominik: ok,

Adam Pawloff (BOKU, Vienna): @David: braucht die nächste Session 17.00 - 18.00 einen Chair/Moderator?

Adam Pawloff (BOKU, Vienna): Hi David, kannst Du mir die erste Aufnahme gleich auf die Dropbox rauf laden?

Wolfgang: https://plus.google.com/hangout/sf_772cplqe498k6gpf5ira4ee8?authuser=0&hl=de

Everyone

Climate Friendly Climate Research – powered by JPI CLIMATE & BMWF^a

Climate Friendly Climate Research is a project conducted by the Allianz of Sustainable Universities in Austria, represented by the following



Source: CFCR virtual conference

Climate Friendly Climate Research – powered by



YouTube AT

Climate Friendly Climate Research Conference

Startseite Videos Playlists Diskussion Über uns

Alle Aktivitäten

Climate Friendly Climate Research Conference hat ein Video hochgeladen.

CFCR Session 11_Sebastian Helgenberger & Adam Pawloff: Conference wrap-up
 vor 3 Monaten · 4 Aufrufe
 CFCR Session 11_Sebastian Helgenberger & Adam Pawloff: Conference wrap-up, main results, highlights, next steps

Climate Friendly Climate Research Conference hat ein Video hochgeladen.

CFCR_Get together in Second Life
 vor 3 Monaten · 31 Aufrufe
 CFCR_Get together in Second Life

Climate Friendly Climate Research Conference hat ein Video hochgeladen.

CFCR Session 7_David Röhler: Existing approaches to reduce the carbon footprint II
 vor 4 Monaten · 3 Aufrufe
 CFCR Session 7_David Röhler: Existing approaches to reduce the carbon footprint II

Climate Friendly Climate Research – powered by



JPI Climate

&



Der UmweltMobilCheck der DB

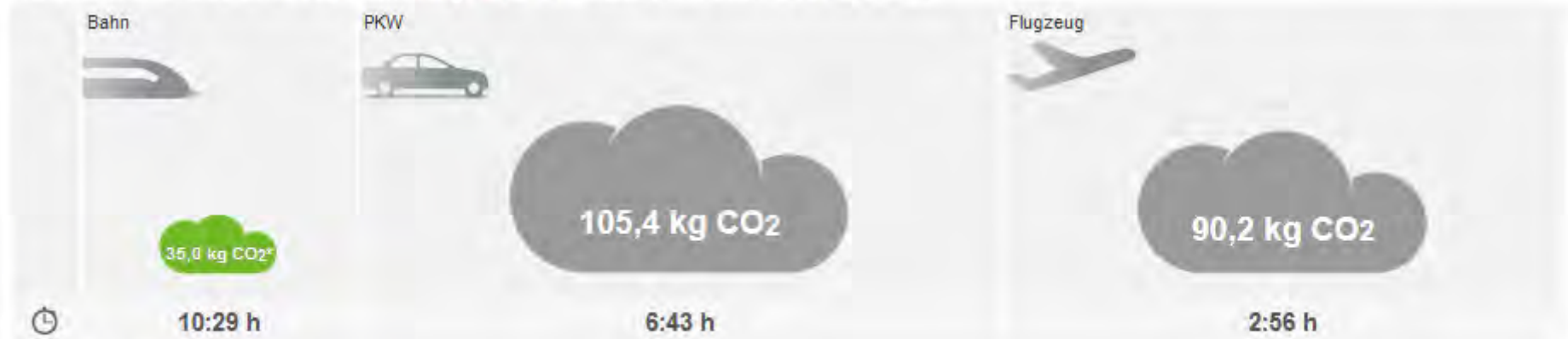
Machen Sie den Umweltvergleich für Ihre Reise.

Ihre Hinfahrtmöglichkeiten

→ Voreinstellungen für Bahn, Flug, PKW ändern

Druckansicht

Start: Wien Hbf Ziel: Berlin Hbf (tief) Verbindung: 6 7 8 Datum: Do, 19.11.15 Zeit ab: 22:39 Uhr



*: bezogen auf Bahnstrommix

Source: deutsche bahn

Climate Friendly Climate Research – powered by



	1	2	3	4
Accessibility levels	“convenient”	“acceptable”	“committed”	“voluntary”
Daytime train travel: ☀				
Duration	≤ 7h	≤ 10h	≤16h	≥16h
Earliest departure time	07:00	06.00	-	-
Latest arrival time	20:00	22.00	-	-
Max number of changes	1	2	3	-
Night-train travel: 🌙*				
Duration	≤ 12h	≤ 15h	≤18h	≥18h
Time without interruptions	0:30 - 05:30	0:30 - 05:30	01:00 - 05:00	-
Max number of changes	0	1	3	-
Earliest departure time	17:00	-	-	-
Latest arrival time	10:00	-	-	-

Climate Friendly Climate Research – powered by



Climate

&



Bundesministerium für
Wissenschaft, Forschung und Wirtschaft



„We are the first generation to feel the effect of climate change and the last generation who can do something about it.“

(OBAMA 2015)

Climate Friendly Climate Research – powered by



&



LET'S DO SOMETHING ABOUT IT!

THANKS FOR YOUR ATTENTION

Climate Friendly Climate Research – powered by



&

&

bmwfw
Bundesministerium für
Wissenschaft, Forschung und Wirtschaft



WU
WIRTSCHAFTS
UNIVERSITÄT
WIEN VIENNA
UNIVERSITY OF
ECONOMICS
AND BUSINESS



**ALPEN-ADRIA
UNIVERSITÄT**
KLAGENFURT | WIEN | GRAZ