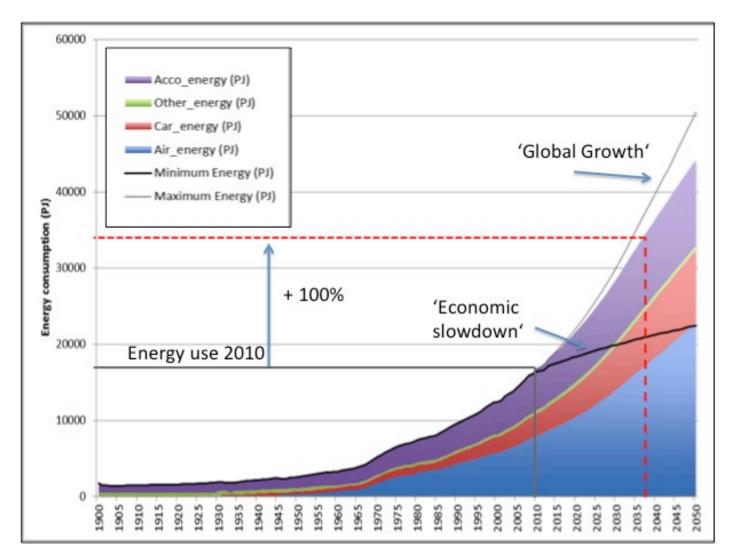
Carbon-labelling im Tourismus

Stefan Gössling

Dept. of Service Management and Service Studies, Lund University School of Business and Economics, Linnaeus University

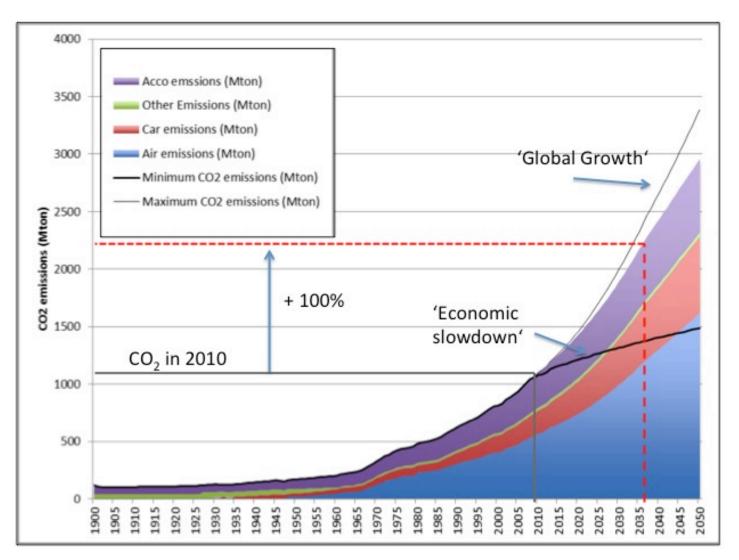


Energy use 1900-2050



Gössling, S. and Peeters, P. 2014. Tourism's global environmental impact 1900-2050. *Global Environmental Change*, submitted.

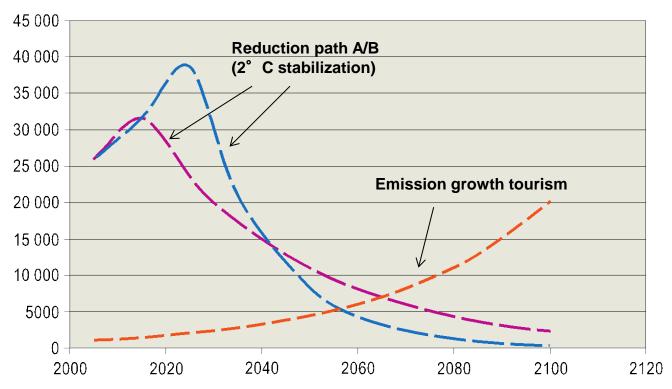
CO₂ emissions 1900-2050



Gössling, S. and Peeters, P. 2014. Tourism's global environmental impact 1900-2050. *Global Environmental Change*, submitted.

CO₂-emissions from tourism and sustainable planetary boundaries

CO₂-Emissions (Mt/yr)



Scott, D., Peeters, P., and Gössling, S. 2010. Can tourism deliver its 'aspirational' emission reduction targets? *Journal of Sustainable Tourism* 18(3), 393-408.

Why labels?

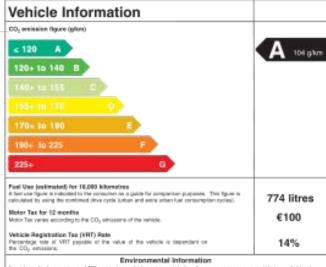
- For consumers: make visible the more sustainable products
- For producers: potentially increase demand and credibility; increase willingness to pay premiums; gives access to new markets and business networks
- For society: create competition for more sustainable products; changes consumer norms; increase pressure on supply chains
- Now hundreds of ecolabels in the world (www.ecolabelindex.com)

Carbon labels

- Focus on energy consumption and/or a single or several greenhouse gases
- Indicate absolute/relative performance







A guide on fuel economy and CO₂ emissions which contains data for all new passenger our models is available at any point of sales here of shape or directly from the Souley of the Islah falsor Instants, its Upper Pemichole Street, Dutilis 2, Tair 01-678-filled, web address view similar is in addition to the fuel efficiency of a cas, silving behaviour as well as other non-sechnical factors play a role in determining a car's fael consumption and CO₂ emissions. CO₂ is the main rependence gas responsible for global variancing.

Make:

Model/Version:

Carbon clooked emissions (g/km): 104 g/km This figure may be obtained from the vehicle's Certificate of Conformity.

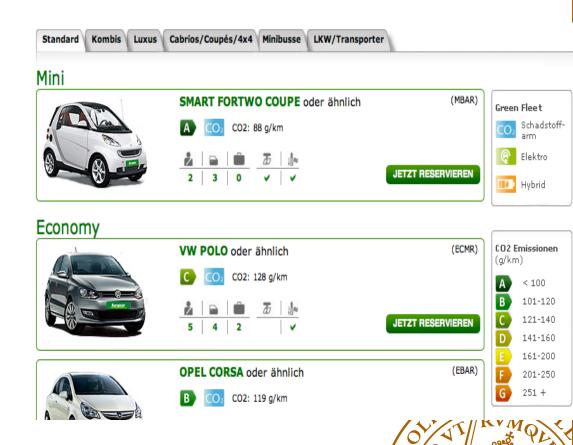
Important note: Some specifications of this make/model may have lower CO₂ emissions than this. Check with your dealer.

Puel Consumption:			
Drive sycle	Litres/100km		
Urban	6.0	Fuel Type:	Petrol
Extra-ution	4.2	Engine Capacity (cc):	1497
Combined	4.3	Transmission:	Automatic



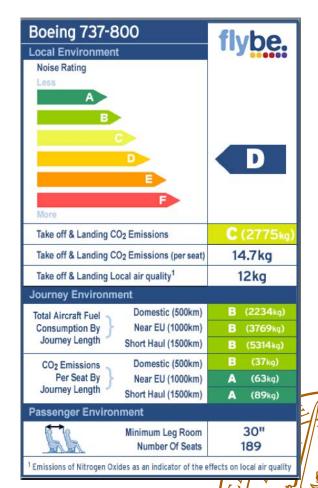
Knowledge: Carbon (resource) literacy

Behavioural change demands factual, procedural and effectiveness knowledge.





Flybe Embrae Local Environment	r 145	fly	be.
Noise Rating Less A B	D E		A
More Take off & Landing CO	2 Emissions	A	(983kg)
Take off & Landing CO:	2 Emissions (per seat)		.1kg
Take off & Landing Local air quality ¹		3kg	
Journey Environme	nt		
Total Aircraft Fuel Consumption By Journey Length	Domestic (500km) Near EU (1000km) Short Haul (1500km)	A	(834kg) (1471kg) (2115kg)
CO ₂ Emissions	Domestic (500km) Near EU (1000km)	C	(54kg) (95kg)
Per Seat By Journey Length	Short Haul (1500km)	С	(136kg)
	Short Haul (1500km)	C	





Hotel Mustermann 23456 Musterstadt

Mit dem Viabono CO_2 -Hotel-Rechner wurde nach einer von CO_2OL entwickelten Methodik, die durch das DFGE-Institut bestätigt und validiert wurde, der CO_2 -Fußabdruck des oben genannten Betriebes berechnet und wie folgt eingestuft:



Bereich:	CO ₂ :
Mobilität	3,29 t
Gebäude	53,21 1
Food & Beverage	37,35 t
Print	0,42 1
Reinigung/Wäsche	1,191
Sonstiges	8,7 1
Sicherheitszuschlag	20,83 t

Gesamt

125,00 t CO₂

gultig bis:

klimaschädlich

zertifiziert durch:

Reisen natürlich genieben

Burdaarministerien
für Namer, Manuschatt
und Resktonsicharbeit



Hotel Fuerte Marbella ****

Average amount per customer: 14.28 Kgr.CO²

Hotel Fuerte Grazalema ****

Average amount per customer: 11.30 Kgr.CO²

Hotel Fuerte El Rompido ****

Average amount per customer: 10.32 Kgr.CO²

Hotel Fuerte Conil-Costa Luz ****

Average amount per customer: 9.53 Kgr.CO²

Hotel Fuerte Miramar ****

Average amount per customer: 10.90 Kgr.CO2

Hotel Fuerte Estepona ****

Average amount per customer: 15.24 Kgr.CO²



forumandersreisen

ReisenmitZukunft.



Sie sind hier: Startseite



weiter zu ausgewählten Reiseideen



Nachhaltigkeit ist messbar. Lesen Sie mehr zum CSR-Bewertungssystem und zur CSR-Zertifizierung.

Zum CSR-Prozess



Der Katalog für Nachhaltiges Reisen

52 Veranstalter - 153 Reisen

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for a living planet

Reisen zu Projekten unseres Kooperationspartners WWF

Zu den Reisen

Schwierigkeitsgrad: mittel Mindestteilnehmerzahl: 4 (max. 8 T.) Reisetage: 15 Tage, 14 Nächte

Leistungen:

Flug Reykjavík – Kulusuk – Reykjavík; flugbedingte Steuern/Gebühren; sämtl. Transporte vor Ort, notwendige Bootstransfers; sämtl. Camp- und Übernachtungsgebühren, Zelte und Kocher; Verpflegung während des Trekkings in Grönland; Wanderung in kleiner Gruppe (max. 8 TN); Reiseprogramm lt. Ausschreibung; kompetente Reiseleitung; informatives Vortreffen

Im Preis nicht enthaltene Leistungen: Anreise nach Island; gern sind wir bei der individuellen Flugbuchung behilflich.

Hinweise des Veranstalters:

Individuelle An- und Abreise nach Reykjavik. Anschlussauftenthalte auf Island oder eine Verlängerung in Grönland sind möglich.



2.499,00 €

2.499.00 €

Termin und Preis pro Person: GR060812

06.08.12-20.08.12

Freiwilliger atmosfair Beitrag (s.S. 162): klimarelevante Emissionen: ca. 1.660 ko

reiwilliger Beitrag. 41,00

Anzahlung in % des Reisepreises: 15%, Fälligkeit Restzahlung Reisepreis: 35 Tage, letzle Rückfrittsmöglichkeit des Veranstalters bei Nichterreichen der Mindestteilnehmerzahl: 35 Tage

Reise buchen beim Veranstalter:

Buchungscode: GR060812

Geographische ReiseGesellschaft Sporksfeld 93

D - 48308 Senden Tel.: 02536/34 35 692 info@geo-rg.de www.geo-rg.de







00000	5 Star - Air Pollution and Greenhouse gas emission score of 16 or more. 2013 Vehicle examples: Toyota Prius, Toyota Yaris
00000	4.5 Star - Air Pollution and Greenhouse gas emission score of between 15 and 16. 2013 Vehicle examples: Toyota Corolla Ascent
0000	4 Star - Air Pollution and Greenhouse gas emission score of between 14 and 15. 2013 Vehicle examples: Toyota Camry Altise, Mitsubishi Lancer, Toyota Aurion
0000	3.5 Star - Air Pollution and Greenhouse gas emission score of between 11.5 and 14. 2013 Vehicle examples: Hyundai Getz, Holden Commodore, Toyota Tarago
000	3 Star - Air Pollution and Greenhouse gas emission score of between 9.5 and 11.5. 2013 Vehicle examples: Kia Carnival, Ford Falcon, Holden Calais
000	2.5 Star - Air Pollution and Greenhouse gas emission score of between 8 and 9.5. 2013 Vehicle examples: Ford Territory, Ford Falcon Ute
00	2 Star - Air Pollution and Greenhouse gas emission score of between 6.5 and 8. 2013 Vehicle examples: Nissan Pathfinder
00	1.5 Star - Air Pollution and Greenhouse gas emission score of between 5 and 6.5. 2013 Vehicle examples: Nissan Patrol
0	1 Star - Air Pollution and Greenhouse gas emission score less than 5.



meer vertrektijden tegen hogere tarieven

Detroit, Metropolitan Wayne

County mi

mail deze info

Volwassenen: €204,00 + €251,23 tax =

29/10 12:30

29/10 17:10

06:20 (30/10)

06:20 (30/10)

14:35

€455.23

Nu een waardecheque ter waarde van 25 euro cadeau én 10% korting op alle autohuur! Betaal nu je online boeking met ideal en ontvang in je bevestiging een actiecode t.w.v. 25 euro voor een volgende reservering van een lijndienstvlucht. Verder ontvang je momenteel maar liefst 10% korting op het normale autohuurtarief als je boekt in combinatie met een lijndienstticket!

vluchtnummer vertrek

Selecteer een heenvlucht

County mi

County mi

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	vali	IIdai	videntiidiiiiiei	VEILIER	aaiinoiiist	ALI
→ ⊙	Frankfurt	New York,JF Kennedy Intl ny	AF 3660	22/10 11:20	14:20	eco value
Sele	cteer een terugvlucht					_
	van	naar	vluchtnummer	vertrek	aankomst	الله الله
+	New York,JF Kennedy Intl ny	Detroit,Metropolitan Wayne County mi	KL 6649	29/10 12:30	14:35	eco value
•	Detroit.Metropolitan Wayne	Frankfurt	KL 6250	29/10 17:10	06:20 (30/10)	

NW 649

NW 250

Annulerings kosten: Na boeking / Voor vertrek: Op aanvraag

Detroit, Metropolitan Wayne Frankfurt

Detroit, Metropolitan Wayne Frankfurt

Niet sanwezig bij vertrek: Op sanvrasg Wijzigingskosten: Op sanvrasg

New York, JF Kennedy Intl

reserveren

eco value

E



Comprehensibility and knowledge domains for leading carbon labels in tourism.

Tourism subsector	Information	Degree of carbon literacy required	
1. Aviation — Flybe ecolabel	kg CO ₂ per flight, per seat Colour scheme	High	F
Aviation — Atmosfair Airline Index	Ranking based on efficiency	Low	F, P
 EU — carbon label for cars (version used in Brazil) 	kg CO ₂ per km, fuel use Colour scheme	Low	F, P
4. Car rental — Europcar	kg CO ₂ per km Colour scheme	Low	F, P
5. Car rental — Drive now	Star-based ranking	Low	P
Tour operator — Forum anders reisen	kg CO ₂ per journey	Medium	F
 Online distribution — Direct Flights 	Colour scheme Numeric ranking	Low	P
8. Hotel — Viabono	kg CO ₂ per guest night Colour scheme	Low	F, P
9. Hotel — Fuerte Hoteles	kg CO ₂ per guest night	Medium	F, P
 Restaurants – Max Hamburgers 	kg CO ₂ —equivalent per meal	Medium-High	F, P

a Referring to the understandability of the carbon label; to understand the method used for calculation would in virtually all cases require high degree of carbon literacy.



b Factual (F), procedural (P) and effectiveness (E) knowledge.

The future

- There is a growing role for carbon labels, also because energy use and emissions are relatively easy to measure and compare
- Carbon labels can help to addressing factual, procedural and effectiveness knowledge (carbon literacy)
- Carbon labelling should be actively encouraged, on the basis of EU white label certification; current communication often not persuasive and unclear
- Should be marketed as quality labels
- Are no substitute for climate policy