CO₂-Strategy &

Processes

Environmental Program

Sustainability Management ESG/SRI Conference November 19, 2015, Société Générale, Paris

Life Cycle

Assessment

Resource efficiency

Mobility Services

Sustainability Management & Environmental Protection @ Daimler

Dr. Udo Hartmann I Senior Manager Group Environmental Protection

C 350 PLUG-IN HYBRID

So Wasser



Significant action fields for sustainability management & environmental protection



Sustainability Report 2014.

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Materiality analysis: Identification of action fields

Product responsibility	Stakeholders* Company**
Customer satisfaction	87 (91) 100 (100)
Innovative vehicle and powertrain technologies	86 (91) 92 (88)
Vehicle safety	86 (86) 92 (92)
Fuel consumption and CO ₂ emissions	85 (92) 98 (92)
Conservation of resources (product)	84 (84) 83 (80)
Pollutant emissions (product)	82 (84) 86 (78)
Environmental product development	82 (82) 81 (81)
Mobility concepts and services	75 (74) 79 (75)
Noise emissions (product)	72 (84) 80 (78)
Production responsibility	
Energy efficiency and CO ₂ -free production	<mark>83 (86)</mark> 83 (83)
Water protection	82 (85) 81 (75)
Disposal and resource management	82 (87) 80 (80)
Air purification (production)	80 (84) 75 (78)
Conservation of nature, soil, biodiversity	79 (76) 75 (64)
Logistics and employee transportation	75 (76) 75 (75)
Employee responsibility	
Employer attractiveness	<mark>88 (84)</mark> 93 (93)
Training and continuing education	84 (87) 92 (92)

Training and continuing education 64 (67) 92 (92) Occupational health and safety 83 (85) 88 (88) Generation management 79 (77) 81 (81) Co-determination 78 (76) 80 (80) Diversity management 70 (69) 82 (73)

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Ethical responsibility

Ethical responsibility			
Human rights	90 (90)	92 (88)	
Data protection	87 (-)	92 (–)	
Compliance	86 (87)	92 (92)	
Integrity	82 (87)	96 (92)	
Management responsibility			
Sustainability strategy and organization	84 (88)	84 (84)	
Transparency in the reporting	78 (77)	83 (78)	
Inclusion of our stakeholders	73 (76)	80 (77)	
Involvement in the political process	70 (71)	75 (80)	
Responsible business partners			
Business partner integrity management	85 (85)	85 (88)	
Compliance with standards in the supply chain	84 (87)	85 (85)	
Social responsibility			
Support of social sustainability initiatives	74 (7 1)	73 (73)	
Regional commitment at our locations	68 (76)	83 (83)	
Cross-regional commitment for social issues	68 (60)	70 (64)	
Support of voluntary employee commitment	67 (62)	70 (61)	
Commitment through own foundation efforts	65 (64)	66 (61)	
Company-initiated projects	57 (60)	64 (64)	

Evaluation 2013/2014 (2012) from 0 (= immaterial) to 100 (= very material)

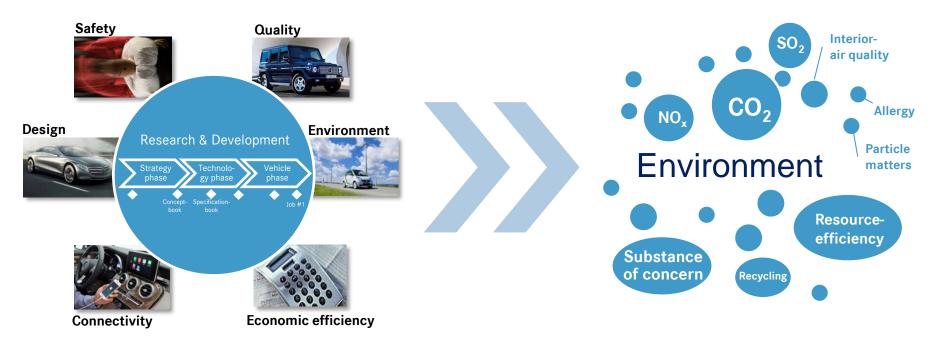
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Sustainability Management

Challenges for research & development of automobiles



Balancing of disparate requirements is a permanent task in Research & Development

Within the different environmental targets contradictory effects are possible



II. Environmental Program



Environmental protection as key element over the entire life cycle of a vehicle



Recycling concepts

Interior emissions & allergy

Significant environmental protection targets are based in the overall Daimler-Sustainability Program

Clin	Climate protection & Air quality Energy Health		&	Resource conservation		
Reduction C passenger c	O ² emissions ars	-30% 2007 - 2016	Early compliance Euro 6 for passenger cars	-50% End of 2014	Use of renewable raw materials MBC	+25% 2010-2015
	O ₂ emissions rcial vehicles	-10% 2014 - 2018	Introduction of EEV engines for all van	100% End of 2013	Use of recyclates MBC	+ 25% 2010-2015
Reduced con heavy duty c	nsumption of com. vehicles	-20% 2005 - 2020	Euro 6 type approval of Daimler com. vehicles	30% End of 2013		
Reduction sp emissions in		-20% 2007 - 2015			Increased use of car2go	Factor 10
Reduction sp emissions in Reduction al emissions in Reduction of		-20% 1990 - 2020			Construction of a hydrogen infrastructure	400 By 2023
Reduction of life cycle for	f CO ₂ and nitro; each new mod		ons over the entire	10-20% Comp. predecessor	Recovery rate end-of-life vehicle	95% by 2015

Compliance with all legal regulations in the relevant countries is the bases of our business

Environmental Program

One example for our ambitious targets

Fuel consumption and CO2 emissions - main markets

CO₂ emissions passenger cars in Europe.

- Reduction of CO₂ emissions (basis NEDC) of the EU new-vehicle fleet to 125 g of CO₂/km by 2016 (corresponds to a reduction by around 30 percent in the period from 2007 to 2016).
- Consistent further electrification of the powertrain for achievement of Daimler-specific EU fleet targets in the year 2020.

Further reduction by 4 percent.

 After the successful achievement of the designated interim target for 2012, the CO₂ emissions in the European fleet in 2014 were reduced by another 5 grams to 129 g of CO₂/km, a reduction by 27.5 percent vs. 2007.

Highlights at the product level:

- New consumption-optimized 9-speed automatic transmission introduced in additional model series.
- Roll-out of new S-Class with significant fuel consumption reductions (- 20 percent).
- Launch of new C-Class with significant fuel consumption reduction of up to 20 percent.
- Launch of additional hybrid vehicles and launch of S 500 Plug-in HYBRID.

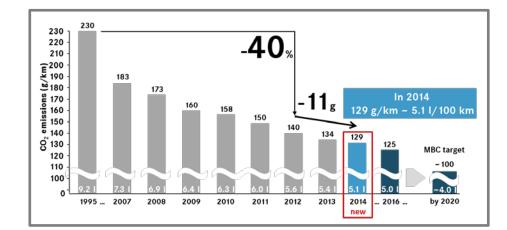
The interim target 2014 was achieved 🕂 only partially achieved 😑

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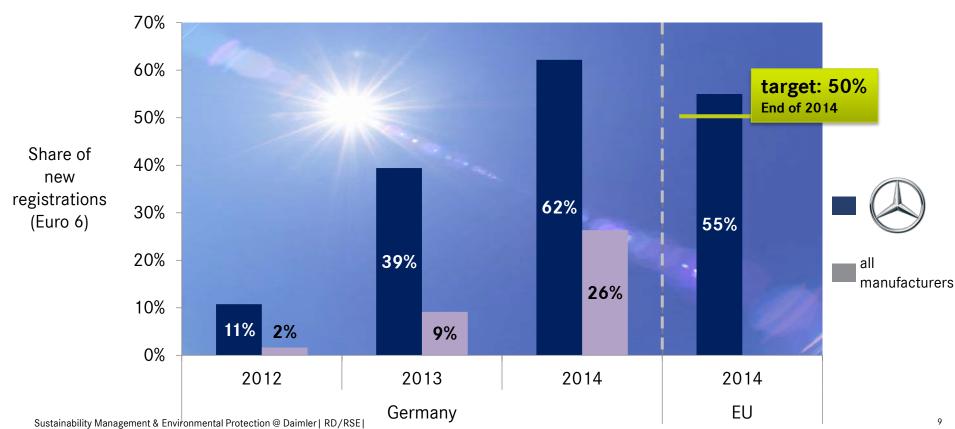
▶ 90%



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Environmental Program

Mercedes-Benz trailblazer in introduction of Euro 6



Environmental Program

Unique positions for MB with "ECARF"- allergy label European Centre for Allergy Research Foundation



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Certificates granted for:

- W 176 ٠ A-Klasse
- B-Klasse W246 X 156
- GLA ٠
- CLS-Klasse C218
- GL/M-Klasse X166
- S-Klasse W/V222
- S-Coupe C218
- C-Klasse W205

Future models will also be developed in line with the FCARF standard





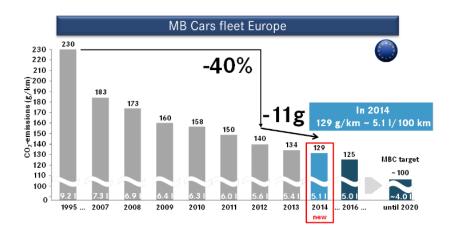


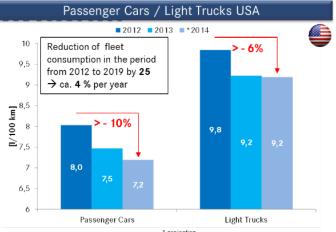




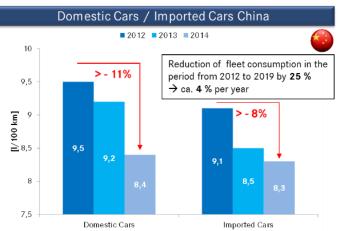
III. CO₂-Strategy and Processes

CO₂- & consumption targets Europe / USA / China





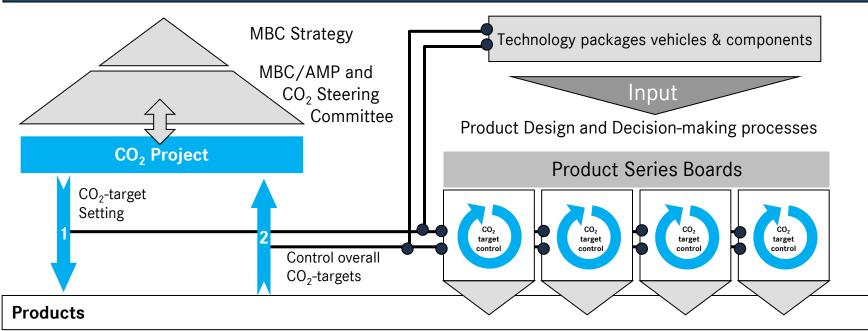
* projection





CO₂ emission control is integral part of R&D organization and processes

CO₂ Project is responsible for target setting, controlling and reporting



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Our strategy for sustainable mobility







High Tech combustion engine and new transmission Efficiency increase of the A-Class up to 20%

A 180 d BlueEFFICIENCY Edition

- 3,5 l/100 km
- 89 g CO2/km



New Gasoline and Diesel engines



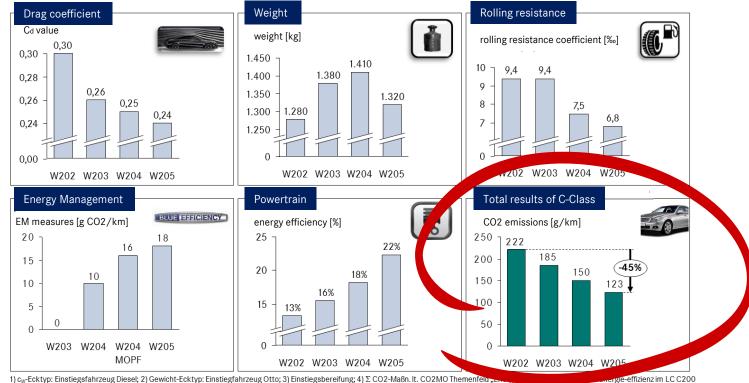
- Turbocharging
- Camtronic •
- Multispark injection
- Eco Start-Stop



New manual & DCT-transmission

CO₂-Strategy & Processes

All disciplines must be included to achieve a significant CO_2 -reduction – e.g. the new C-Class



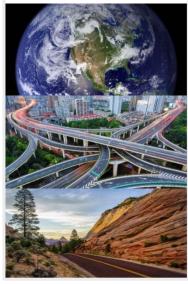
1) cw-Ecktyp: Einstiegsfahrzeug Diesel; 2) Gewicht-Ecktyp: Einstiegfahrzeug Otto; 3) Einstiegsbereifung; 4) Σ CO2-Maßn. It. CO2MO Themenfeld

Our modular Hybrid-Kit

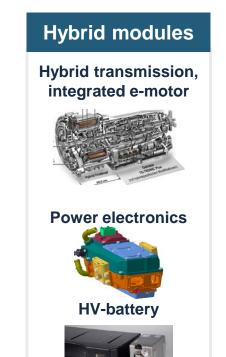
We will provide10 PLUG-IN Hybrid cars until 2017



Premium products for our customers worldwide







CO₂-Strategy & Processes

On the way to emission-free driving

optimized combustion engines



Hybridization



S 500 e long (PLUG-IN HYBRID)

65 gCO₂/km

emission-free driving, battery/fuel cells



B 250 e (Electric Drive)



26 gCO₂/tons per kilometer







Fuso Canter E-CELL

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IV. Life Cycle Assessment

Life Cycle Assessment

Elements of the environmental management system R&D with focus on design for environment

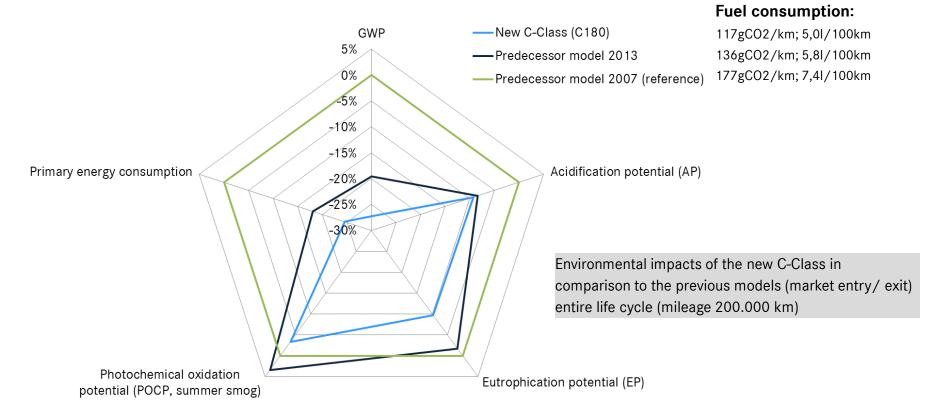


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Life Cycle Assessment: Element of Daimler's Green Strategy. The areas of application are...

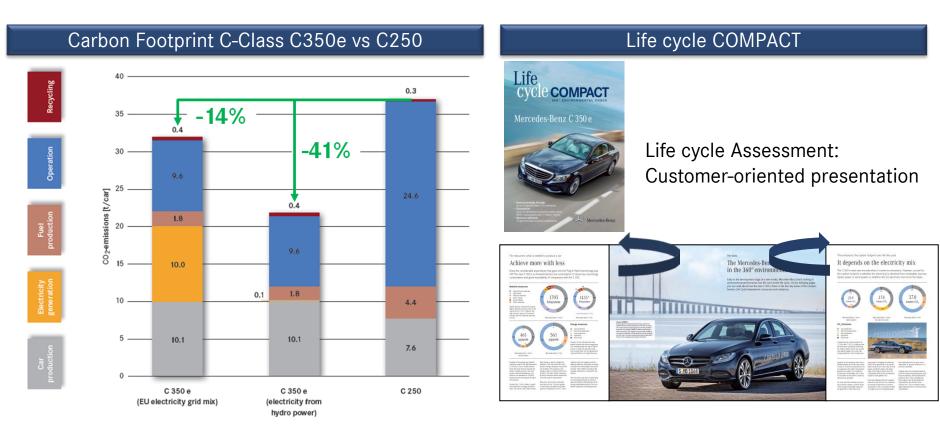


Life Cycle Assessment new C-Class



Life Cycle Assessment

Plug-In-Hybrids with positiv environmental impact





V. Resource efficiency

Ressource efficiency

Which resources do we need

material and energy resources in the vehicles life cycle



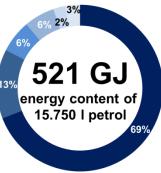
Material resources

- Steel/ferrous
- Light alloys
- Polymers
- Other metals
- Service fluids
- Other materials

Energy resources

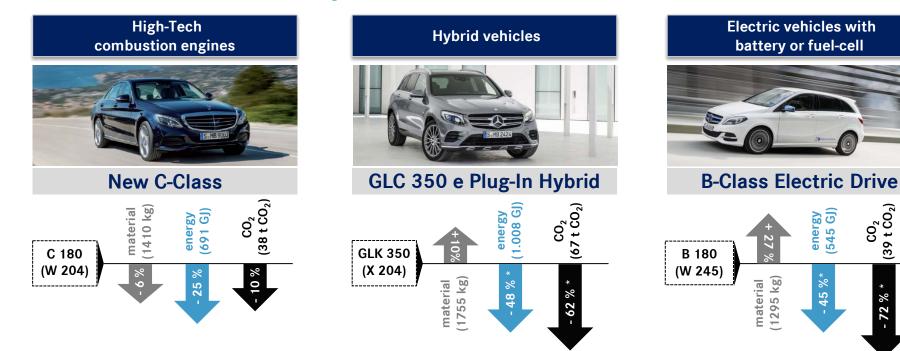
- Crude Oil
- Natural gas
- Hard Coal
- Renewable energy
- Lignite
- Uranium





Ressource efficiency

Future drive train systems – conflict of interests

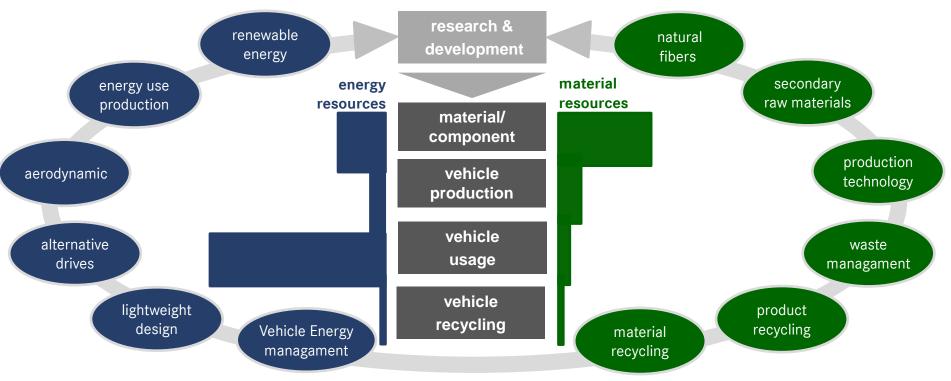


Electrification is leading to a significant reduction of fuel consumption and CO₂ emissions, however today, the necessary material input is much higher

Hydro power



Strategies for increasing resource efficiency Which levers do we have in research and development



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VI. Mobility Services



Pioneer in mobility concepts & services



10.700 petrol cars



2013 → > 500.000 user

 $2014 \rightarrow < 1.000.000 \text{ user}$

2013 \rightarrow > 15.000.000 rental transactions

 $2014 \rightarrow < 30.000.000$ rental transactions

Good for the environment good for you



1.250 electric drive

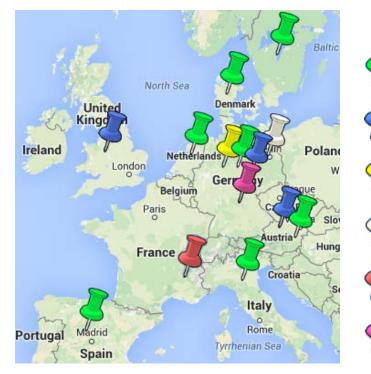


29 cities in EU and USA/Kanada



Mobility Services

Geographic distribution of carsharing - including pilot projects



Daimler (30 cities)

BMW (7 cities)

VW (1 city)

Citroën (1 citiy)

Toyota (3 cities)

Ford (x)





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Thanks for your attention



Dr. Udo Hartmann I Senior Manager Group Environmental Protection

Disclaimer

This document contains forward-looking statements that reflect our current views about future events. The words "anticipate," "assume," "believe," "estimate," "expect," "intend," "may," "can," "could," "plan," "project," "should" and similar expressions are used to identify forward-looking statements. These statements are subject to many risks and uncertainties, including an adverse development of global economic conditions, in particular a decline of demand in our most important markets; a worsening of the sovereign-debt crisis in the euro zone; an increase in political tension in Eastern Europe; a deterioration of our refinancing possibilities on the credit and financial markets; events of force majeure including natural disasters, acts of terrorism, political unrest, industrial accidents and their effects on our sales, purchasing, production or financial services activities; changes in currency exchange rates; a shift in consumer preferences towards smaller, lower-margin vehicles; a possible lack of acceptance of our products or services which limits our ability to achieve prices and adequately utilize our production capacities; price increases for fuel or raw materials; disruption of production due to shortages of materials, labor strikes or supplier insolvencies; a decline in resale prices of used vehicles; the effective implementation of cost-reduction and efficiency-optimization measures; the business outlook for companies in which we hold a significant equity interest; the successful implementation of strategic cooperations and joint ventures; changes in laws, regulations and government policies, particularly those relating to vehicle emissions, fuel economy and safety; the resolution of pending government investigations and the conclusion of pending or threatened future legal proceedings; and other risks and uncertainties, some of which we describe under the heading "Risk and Opportunity Report" in the current Annual Report. If any of these risks and uncertainties materializes or if the assumptions underlying any of our forward-looking statements prove to be incorrect, the actual results may be materially different from those we express or imply by such statements. We do not intend or assume any obligation to update these forward-looking statements since they are based solely on the circumstances at the date of publication.