

ECRAN Climate  
 WG Transport related clima legislation  
 Albania, Tirana, 20 - 23 April 2016



This Project is funded by the European Union

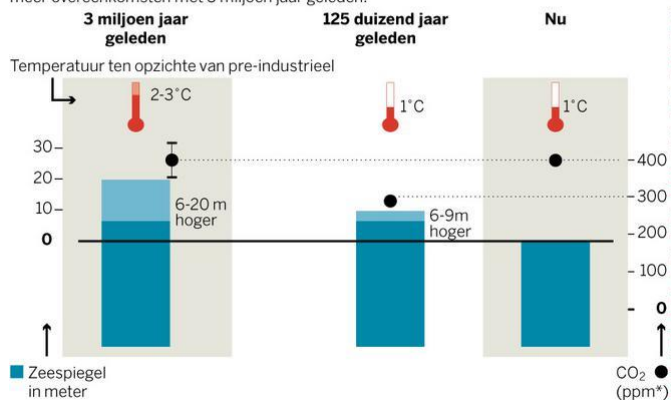


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## The need to keep temperatures well below 2C

### Gevolgen opwarming erger

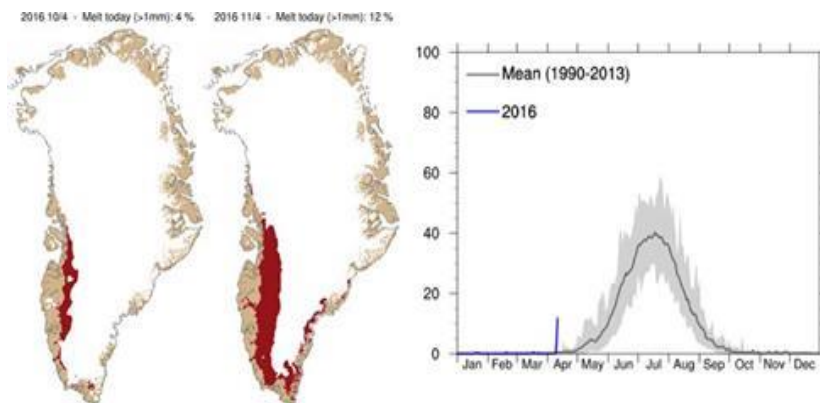
Het klimaat 3 miljoen jaar geleden, 125 duizend jaar geleden en nu. Tegenwoordig ziet men meer overeenkomsten met 3 miljoen jaar geleden.



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## Regulation (EC) No 443/2009: Emission performance standards from new passenger cars

### Article 9: Excess emissions premium

- From 2012 onwards for which a manufacturer's average specific emissions of **CO<sub>2</sub>** **exceed** its specific emissions target in that year, the **Commission shall impose an excess emissions premium** on the manufacturer or, in the case of a pool, the pool manager.
- From 2012 - 2018
 

→ < 1 g CO <sub>2</sub> above target	5 €
→ 1 – 2 g CO <sub>2</sub> above target	15 €
→ 2- 3 g CO <sub>2</sub> above target	25 €
→ More than 3 g CO <sub>2</sub> above target on	95 €/g

 multiplied by number of vehicles sold
- Example when excess is 5 g CO<sub>2</sub>/km, 3 million cars
  - ((Excess - 3 g CO<sub>2</sub> /km) x 95 €/g CO<sub>2</sub> /km + 1 g CO<sub>2</sub> /km x 25 €/g CO<sub>2</sub> /km + 1 g CO<sub>2</sub> /km x 15 €/g CO<sub>2</sub> /km + 1 g CO<sub>2</sub> /km x 5 €/g CO<sub>2</sub> /km) x number of new passenger cars
  - = ((2 x 95) + 25 + 15 + 5) x 3 million cars
  - = 235 x 3 million
  - = Excess 5 g, 3 million cars. **705 million Euro**





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Directive 1999/94/EC: CO<sub>2</sub> labelling of cars  
Article 6



*Engineering For Enthusiasts?*

The ACEX DS2. With its acclaimed dynatronic V6 engine, multiplex suspension, the triptronic gearbox and Italian styling, its far more than just an engineer's dream!

Fuel economy figures for the Acex mpg (l/100km). Urban 18.7 (15.1), extra urban 36.4 (7.8), combined 27.0 (10.5). CO<sub>2</sub> emissions 249 g/km


Costs with metallic paint (€650), on the road price €38,650 – prices and publication details correct at the time of going to press

Slogan


Main text

The Fuel Consumption and CO<sub>2</sub> information is produced using smaller font than main text

Additional information





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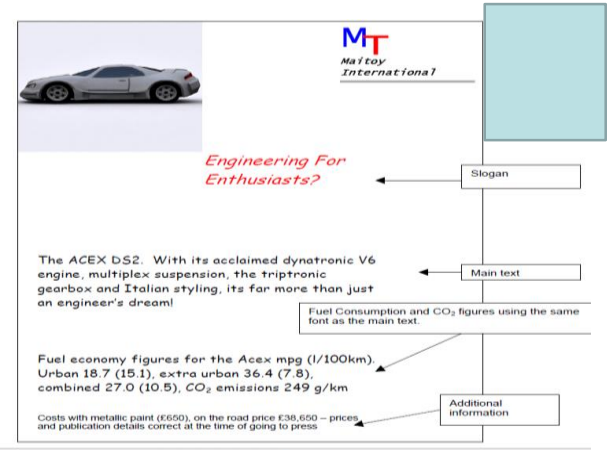


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Not Acceptable

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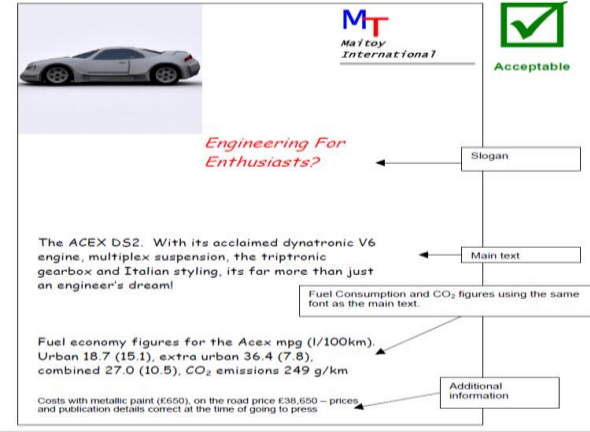


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**MT**  
Maitoy  
International

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only 31% correctly identified the fuel efficiency of the car

**The right car for you**

The new Marko is out now  
Special offers available

Fuel consumption figures in mpg (l/100km): Marko range: urban 51.4-45.6 (5.5-6.2), extra urban 72.4-62.8 (4.4-4.5), combined 62.9-55.4 (4.5-5.1), CO<sub>2</sub> emissions 106-119g/km



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whereas 56% were able to do so on for the advert that contained the label.

**The right car for you**

The new Marko is out now  
Special offers available

CO <sub>2</sub> emissions and fuel economy	
	<b>F 68.0 g/km</b>
Fuel consumption (l/100km): urban 12.8, extra urban 6.2, combined 8.2	
CO <sub>2</sub> emissions (g/km): urban 192, extra urban 123, combined 155	
Marko	1754-1938
Petrol	A/56
Class	187-224



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## Directive 98/70/EC on the quality of petrol and diesel fuels

### Article 7D: Calculation of life cycle greenhouse gas emissions from biofuels

Annex IV presents detailed methodology (Also in Annex V of the RE Directive)  
Total emission from the use of the biofuel

$$E = e_{ec} + e_l + e_p + e_{td} + e_u - e_{sca} - e_{ccs} - e_{ccr} - e_{ee}$$

$$GHG\ Saving = (E_F - E_B)/E_F \quad (\text{Min } 60\%, \text{ in } 2018)$$

Where  $E_F$  = emissions from the fossil fuel comparator

#### Main uncertainties

- Indirect land use change effects are not included
- Allocation of emissions between fuel and co-product
- N<sub>2</sub>O emissions

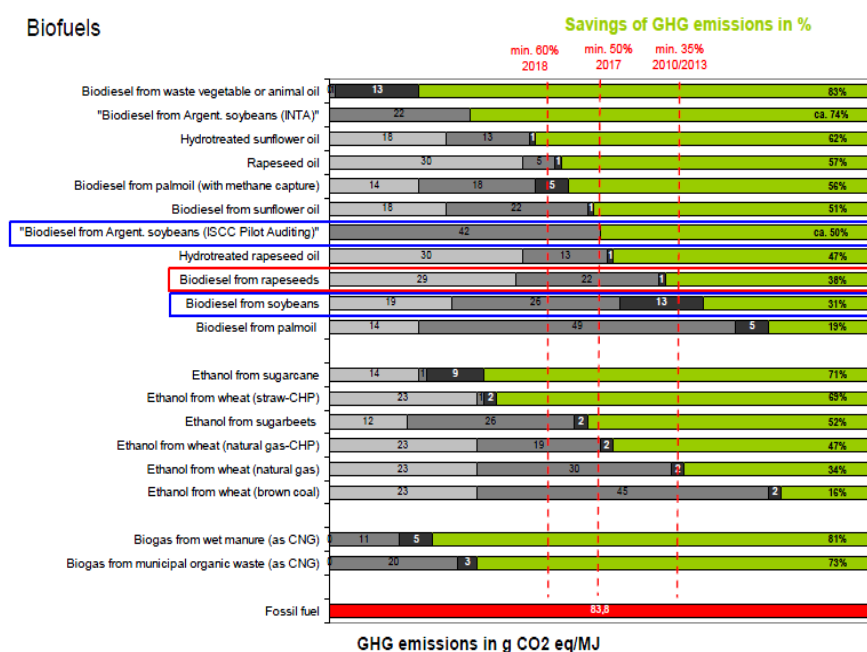


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#### Biofuels





Environment and Climate  
Regional Accession Network **ECRAN**

Thank you



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