EU Car CO2 regulation, enforcement and innovation credits.

欧盟乘用车二氧化碳法规, 法规执行以及创新奖励



Office for Low Emission Vehicles

Richard Bruce



Why EU action? 为什么欧盟会采取措施?

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- Treaty of Rome (established1957) empowers EU to deliver transport measures under a common transport policy
- 罗马条约(1957成立)赋予欧盟对交通运输 方式可采用一个共同的政策来治理。
- European automotive manufacturers have a leading position in the global market and account for 25% of global car production.
- 欧洲的汽车制造商在全球市场具有领先地位, 产量占全球汽车产量的25%。









What is the EU transport ambition? 欧盟交通运输有什么宏伟目标?

- European Commission Roadmap indicates that EU transport should reduce its CO2 emissions by around 60% of its 1990 level by 2050.
- 欧盟委员会路线图指示,相比1990的水平,2050 年欧盟交通应该减少CO2排放大约60%。
- In UK 'The Climate Change Act 2008' commits UK to reduce emissions by 80% of its 1990 levels by 2050.
- 在英国, '气候变化法案2008'致力英国相比1990的水平,到2050年减少大约80%的排放。









What role for cars? 乘用车的影响?

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- Road transport contributes about 20% of total EU CO2 emissions, but cars alone are 15%.
- 公路交通运输占欧盟二氧化碳排放的20%,但是仅乘 用车就占有15%。
- Legal framework can reduce CO2 emissions from cars in a cost-efficient and proportionate way, which reduces fuel costs for motorists and provides opportunities for innovation and new technology.
- 法律体系可以才用性价比高且相称的方法来减少二氧化碳排放,从而减少驾驶者的燃油成本,为创新以及新技术提供机会。









EU Regulation 443/2009 欧盟443/2009标准



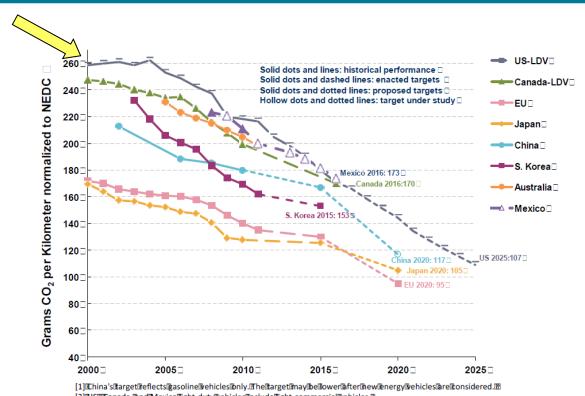
- Following a failed voluntary agreement between Government and industry, negotiations on regulation began in 2007 and 443/2009 followed.
- 自政府和行业之间的自愿协议失败之后,对规章的 谈判始于2007年,后来制定了443/2009标准。
- EU fleet average must be 130 g/km CO2 by 2015.
- 到2015年,欧盟车队平均二氧化碳排放为130 g/km
- EU fleet average must be 95 g/km CO2 by 2021.
- 到2021年, 欧盟车队平均二氧化碳排放为95 g/km

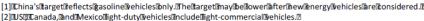




What position in the global race? 欧盟在全球竞赛中的位置





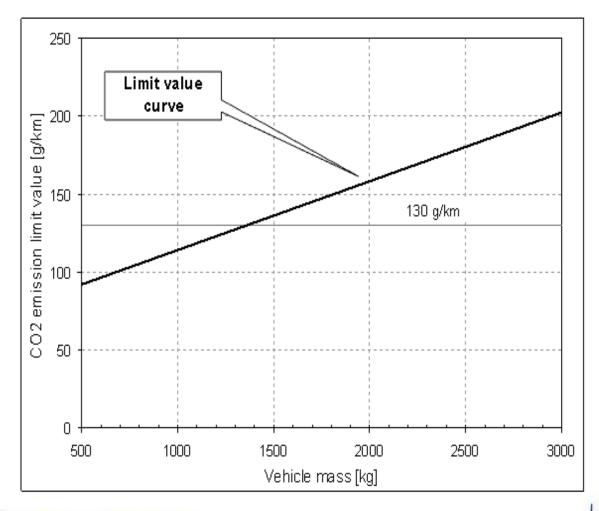






443/2009 - How does it work? 443/2009 - 如何工作?







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443/2009 - Penalty payments 443/2009-罚款支付



- Non-compliance penalty for manufacturers should they miss their specific reduction targets.
- 如果制造商不能达到具体的减排目标则会有违规处罚。
- From 2012, €5 for first g/km, €15 for second g/km,
 €25 for third g/km and €95 for each subsequent g/km.
- 从2012年起,第一个g/km罚€5,第二个g/km罚€15,第三个g/km罚€25,接下来每个g/km罚€95。
- From 2019, cost will be €95 per g/km.
- 从2019年起,每个g/km罚款€95。





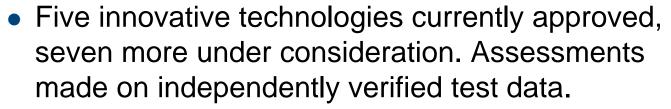




443/2009 - Eco-innovations 443/2009-生态创新



- Credit awarded (to a max of 7g/km) for 'innovative' technologies that can't be demonstrated under the current type approval test (NEDC).
- 对在当前的型式核准测试(NEDC工况)下不能表征 出来的创新技术给予奖励(最多为7g/km)。



当前已经批准了5个创新技术,还有7个还在考虑中。采用了独立的评估来验证测试数据。









443/2009 - Super-credits 443/2009 - 超级奖励

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- Incentive for manufacturers to produce vehicles with emissions below 50g/km.
- 对生产排放低于50g/km车辆的制造商给予激励。
- Each 'super-credit' vehicle is worth 2 vehicles in 2020, 1.67 vehicles in 2021, 1.33 vehicles in 2022 and then 1 from 2023. Cap of 7.5 g/km per manufacturer over the three years.
- 2020年,每辆'超级奖励'的车按两辆车来算, 2021年按1.67辆来算,2022年按1.33辆来算,从 2023年开始,按一辆车算。7.5g/km是每个制造商在 三年里可能授予的最大奖励。













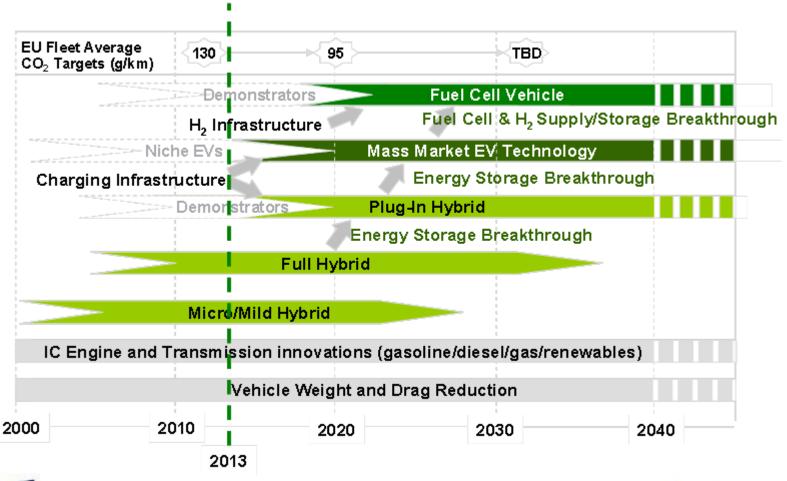
443/2009 - Smart regulation 443/2009—智能法规



No. of vehicles sold per manufacturer per year 每个制造商车辆年销售数	Type of derogation 减损形式
<1000 vehicles 小于1000辆	Excluded from scope of the legislation 不在法案的范畴中
<10,000 vehicles 小于10,000辆	Can propose their own emissions reduction target which is subject to approval by the European Commission. The Commission decides on the basis of a set of agreed criteria which include the manufacturer's emissions reduction potential. 可以向欧洲委员会提出自己的减排目标,但是需要得到批准才行。委员会会用一套商定的准测来仲裁,这些准测中包括制造商的减排潜力。
<300,000 vehicles 小于300,000辆	Can apply for a fixed target of a 25% reduction in their emissions from their 2007 average for the period 2012 to 2019, and a 45% reduction from the 2007 level as of 2020. 从2012年到2019年,可以申请固定的25%减排目标值,这是相对于2007年平均值来说。到2020年,可以申请相对于2007年减少45%的目标值。
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Use of technology in cars 乘用车采用的技术









443/2009 - Recent negotiations 443/2009 - 最近的协商



- The review of the 2020 targets for cars and vans has recently been completed.
- 对乘用车和小客车2020年目标值的审阅已经完成。
- Commissioner Hedegaard 'Ende gut, alles gut'
- 专员Hedegaad'好,一切都好'
- Agreement keeps us well on track to deliver against our near and long-term ambitions.
- 协议让我们保持在预期的轨道上从而实现我们的 近期和远期宏伟目标。







443/2009 - Future ··· 443/2009-将来···



- Ever tighter global emissions regulations are one of the main drivers for the transition to ULEVs.
- 更加严厉的全球排放标准是过渡到超低排放车辆的主要动力之一。
- Must preserve the balance between stretching targets and being overambitious.
- 必须保持目标伸展和目标过于宏伟的平衡。









443/2009 - Key challenges for beyond 2020 ··· 443/2009-2020后主要的挑战



- New test cycle ...
- 新测试工况...
- Eco-innovations ...
- 生态创新...
- Super-credits ...
- 超级奖励...
- Mass, footprint or different approach?
- 质量, 脚印面积或是不同的方法?
- Rate of progress ...
- 进展速度...



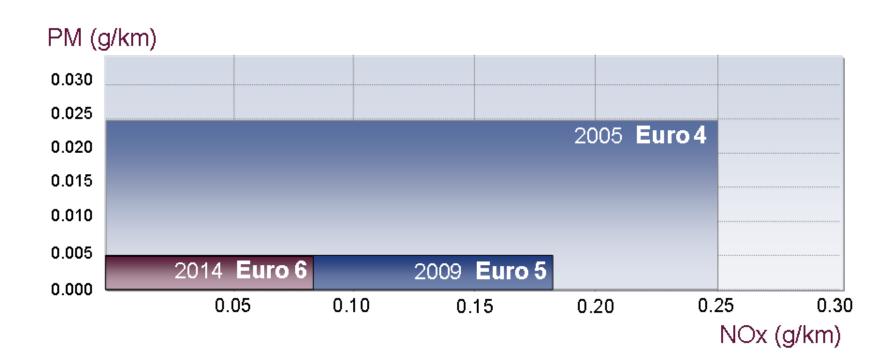






Air quality 空气质量









Final thoughts ··· 最后的要点



- It's not all regulation.
- 并不是所有的规章
- Preliminary 2013 data shows that the EU fleet will have met its 2015 target 2 years early. 30% reduction since 2000.
- 初步的2013年数据显示欧盟车队将提前两年达到2015年的标准,相对2000年减排30%
- Amazing progress against tough challenge, but helped by right incentives, supportive environment and time.
- 针对严峻的挑战且具有惊人的进展, 归功于正确的激励体系, 支持性的环境和时间。













THANK YOU

谢谢

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