Policy to encourage ultra low emission vehicle uptake in the UK

英国鼓励超低排放车辆的政策经验交流



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Outline 概览



- 1. POLICY DRIVERS 政策驱动
- 2. UK POLICY CONTEXT 英国政策环境
- 3. UK GOVERNMENT ACTIONS 英国政府行动
- 4. PROGRESS 进展
- 5. ISSUES 问题
- 6. NEXT STEPS 下一步计划





1. POLICY DRIVERS 政策驱动





Policy interests 政策偏好





Inward investment, growth, jobs

对内投资、增 长、工作

2.

Carbon

碳排放

3.

Air quality (£8- 空气质量(每年 £17bn)

80-170亿英镑)



Energy security

能源安全





2. UK POLICY CONTEXT

英国政策环境





UK – key numbers 英国-主要数据





>50%
of new car sales
are to fleets

>50%的新车销售进入车队

>60%

Houses with offstreet parking

>60% 住户拥有非临街停车位

8.5 miles

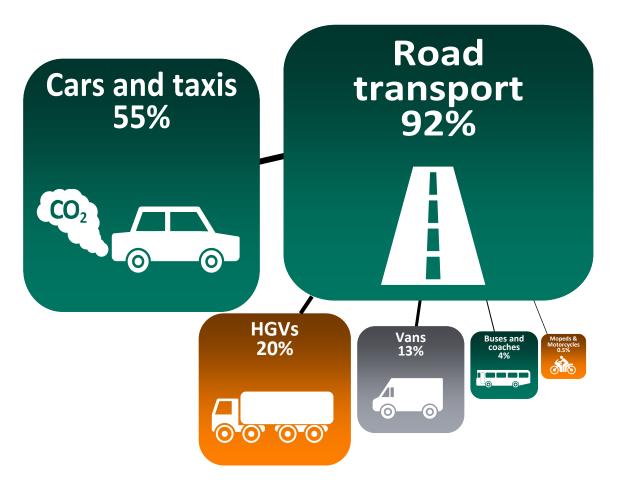
Average car journey length

汽车年均行驶里程为 8.5 英里



UK Transport and CO2 英国交通与CO2





- Transport makes up 25% of UK CO2 emissions
- 交通运输的CO2排 放占英国的25%
- 92% of UK transport emissions are from road transport
- 92% 的交通运输排 放来自于道路交通





UK Transport and air quality #1

英国交通与空气质量#1



Average reduced life expectancy from air pollution in UK

of the NO_X in the UK's air quality hot spots comes from road traffic

£8-17bn
Annual cost to

Annual cost to UK from manmade fine particulate matter

World Health Organisation has classified diesel exhaust fumes as carcinogenic

- · 英国的空气污染是人均寿命减低 6个月
- NOx的高排放区有60%来自于道 路交通
- 每年人造颗粒物的总成本高达 80-170亿英镑
- WHO将柴油尾气列为致癌物质

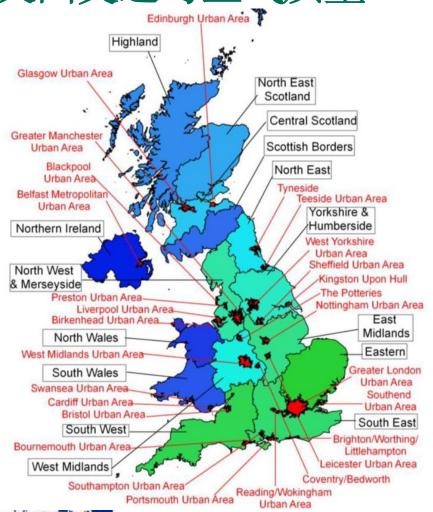




UK Transport and air quality #2

英国交通与空气质量#2





- Widespread non-compliance with EU limit values for NOx
- NOx不能达到欧盟标准限值 为普遍现象
- Concern over PM levels
- 为PM排放水平担忧



3. UK GOVERNMENT ACTIONS

英国政府行动





What is OLEV? OLEV是什么?





交通部

Department for Transport



能源与气候变化部

Department of Energy & Climate Change







♦ Office for Low Emission Vehicles 低排放车办公室

R&D

研发





动机



Incentives Energy issues

能源问题





Comms

商业



Infrastructure

基础设施



Supply Chain

供应链









Government commitment 政府承诺





One of the longest, most comprehensive packages of support in the world...

世界上最长最全面的支持 政策之一…

£400m OLEV support to £400m OLEV的资金支持 2015

£500m for advanced propulsion centre

£500m OLEV support to 2020

£100m fiscal incentives to 2020

至2015年

£500m 先进推动中心

£500m OLEV的资金支持

至2020

£100m 财政激励至2020





Working with industry - 5 workstreams



Government support

Industry investmer

与行业合作-5条工作主线

Supporting the early market

Shaping the required infrastructure

Securing the right regulatory and fiscal measures

Investing in UK automotive capability

Preparing the energy sector

支持早期市场

规划基础设施

确保正确的管理和财税政策

投资于汽车行业能力建设

能源行业做好准备

Mass uptake of ULEVs

Thriving UK auto sector

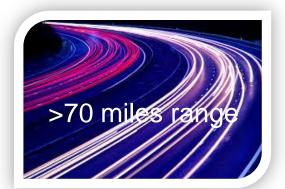




Measures#1 – plug-in grants 方法#1- 插电奖励











25% off an eligible car (up to £5,000) 合格轿车降价25% (最高限额£5,000)

20% off an eligible van (up to **£8,000**) 合格商务车降价20% (最高限额**£8,000**)





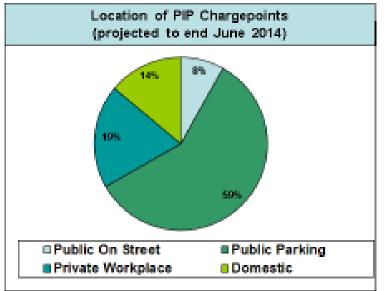
Measures#2 – Infrastructure [i] 方法#2-基础设施

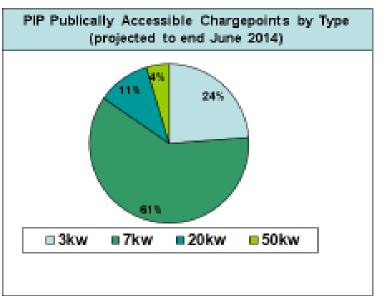
Office for Low Emission Vehicles

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Plugged in Places (PIP) 2009-2014 充电地点 2009-2014

- 8 regional pilots. Up to £30m. Learning programme.
- 8个试点地区。高达3000万英镑。试点项目
- >6,000 chargepoints, different business models,
- 6000多个充电点,不同的商业模式
- Leveraged in private sector investment, ~ 5,000.
- 与私人投资相平衡,约5000个
- Used learning to develop national schemes
- 通过学习发展全国战略

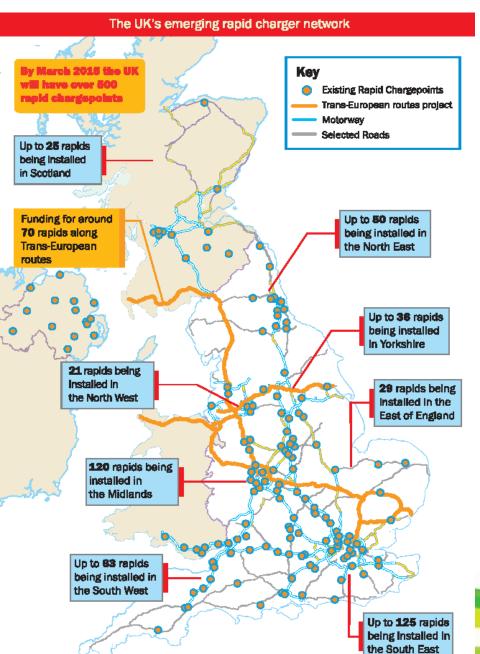






Measures#2 – Infrastructure [ii] 方法#2-基础设施





- 500+ rapid chargers by April 2015
 best network in Europe
 - 500多个快速充电站,2015年4月之前 ,欧洲最好的充电网络
- 1,500 bids for 7kw chargepoints on public sector sites
- o 7kw的公共充电点收到1500个竞标
- 400 chargepoints (7kw or 22kw) in train stations
- o 火车站有400个充电点(7kw或22kw)
- 10,000+ domestic grants claimed
- 已授权10000多个本地充电站

Measures#3 – Fiscal [i]: road tax 方法#3- 道路税



•	or after 1 March 2001 ssions and fuel type	Petrol Car (Tax Class 48) and Diesel Car (Tax Class 49)			
Bands	CO₂ emission figure (g/km)	12 months	Six months		
Band A	Up to 100	03	-		
Band B	101 to 110	£20	-		
Band C	111 to 120	£30	-		
Band D	121 to 130	£110	£60.50		
Band E	131 to 140	£130	£71.50		
Band F	141 to 150	£145	£79.75		
Band G	151 to 165	£180	999		
Band H	166 to 175	£205	£112.75		
Band I	176 to 185	£225	£123.75		
Band J	186 to 200	£265	£145.75		
Band K*	201 to 225	£285	£156.75		
Band L	226 to 255	£485	£266.75		
Band M	Over 255	£500	£275		



燃料税与强化资本投资津贴为零



Measures#3 – Fiscal [ii]: company car tax

Office for Low Emission Vehicles

方法#3-公司车辆税

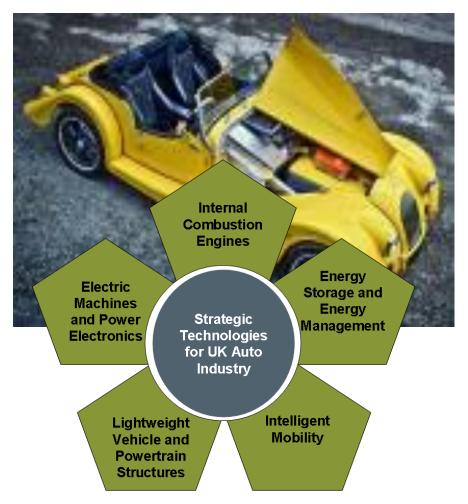
Vehicle CO2	2014-15 %BIK Rate		2015-16 %BIK Rate		2016-17 %BIK Rate	2017-18 %BIK Rate	2018-19 %BIK Rate			
g/km	Petrol	Diesel	Petrol	Diesel	All cars	All cars	All cars			
0	0	0	5	8	7	9	13			
1-50	5	8	5	8	7	9	13			
51-75	5	8	9	12	11	13	16			
76-94	11	14	13	16	15	17	19			
95-99	12	15	14	17	16	18	20			
100-104	13	16	15	18	17	19	21			
105-109	14	17	16	19	18	20	22			
110-114	15	18	17	20	19	21	23			
115-119	16	19	18	21	20	22	24			
120-124	17	20	19	22	21	23	25			
125-129	18	21	20	23	22	24	26			
130-134	19	22	21	24	23	25	27			
135-139	20	23	22	25	24	26	28			
140-144	21	24	23	26	25	27	29			
145-149	22	25	24	27	26	28	30			
150-154	23	26	25	28	27	29	31			





Measures#4-R&D 方法#4 研发





- Up to £82m to 2015, on 'sticky technologies'
- [Up to £82m to 2015, on 'sticky technologies']
- Giving ULEV innovation 'roots' in the UK for the long term
- [Giving ULEV innovation 'roots' in the UK for the long term]
- £1bn combined funding for Advanced Propulsion Centre
- [£1bn combined funding for Advanced Propulsion Centre]
- Further £100m ULEV R&D to 2020
- [Further £100m ULEV R&D to 2020]

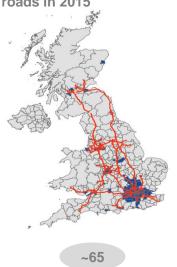




Measures#5 – Hydrogen 方法#5-氢能



Seeding of Tier 1 regions¹ major cities and connecting roads in 2015

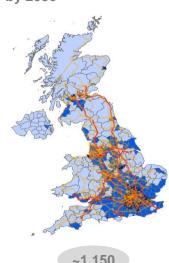


Initial seeding in major population centres

Coverage extended to Tier 2 regions and all major roads <2025

Extend coverage to enable close-to-home refuelling to 50% of the population and long distance travel

Full population coverage by 2030



Extend close-to-home refuelling to the whole of the **UK**, including less populated regions

Phase 1 participants

 UK Government departments







Car OFMs









 Hydrogen providers/ producers and utilities





 Technology providers



JM⊠ Johnson Matthev

 Public-private partnerships



Fuel retailers







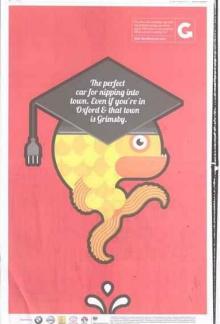




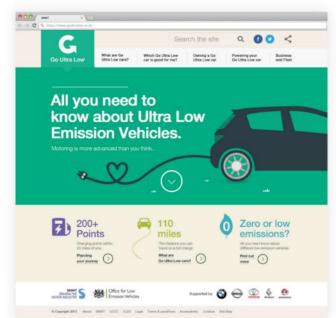
Measures#6 – Communications 方法#6- 交流











4. PROGRESS 进展

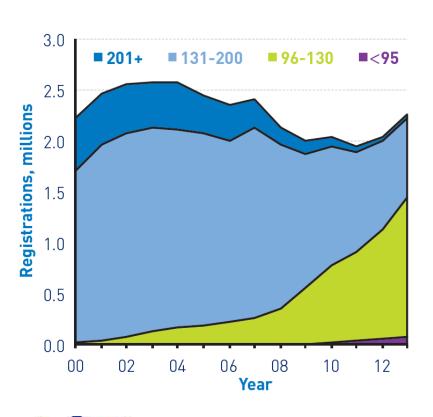




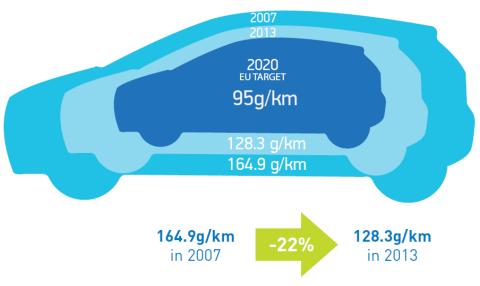
Progress – UK fleet 进展 – 英国的车队



Chart 4 New car market by selected CO₂ bands



Average UK new car CO₂ emissions





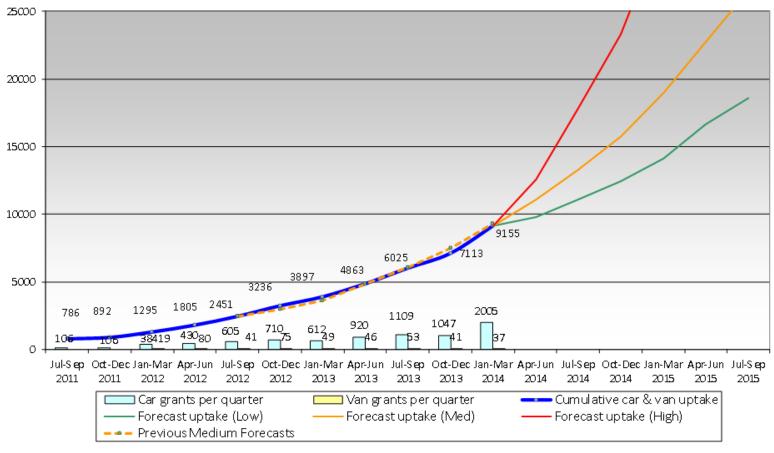


Progress – ULEV uptake 进展 – 超低排放车增长



Plug-in Car and Van Grant Uptake / Forecast

(at April 2014)







5. KEY CHALLENGES 主要挑战

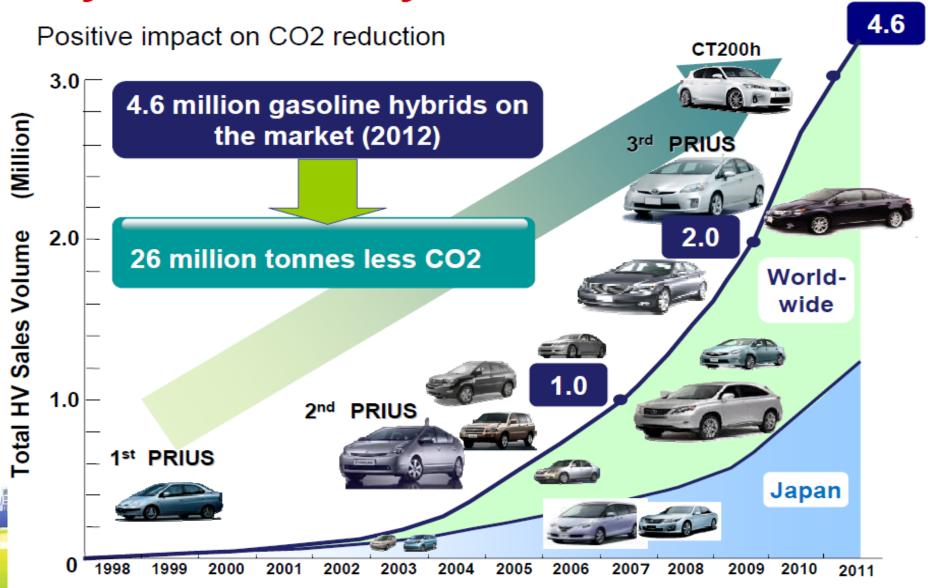




The long game 持久战



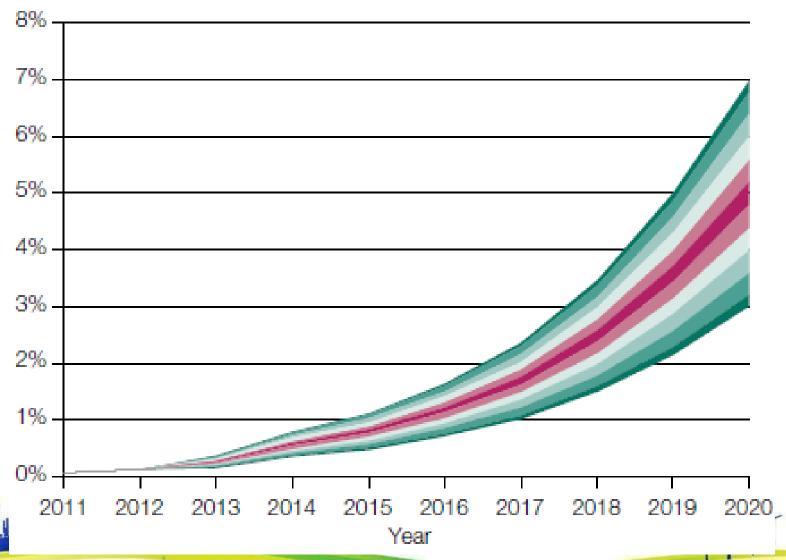
Toyota & Lexus Hybrid Sales

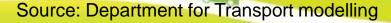


Projected ULEV penetration (2011-20)



超低排放车的市场占有率预测 (2011-20)



















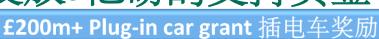


6. NEXT STEPS 下一步计划





£500m support 2015-2020 2015-202年将发放5亿磅的支持资



£30m Other vehicles grant 其他车奖励

£20m Taxi fund 出租车基金

£100m R&D 研发

£32m chargepoint infrastructure grants 基础设施奖励

£35m City schemes 城市规划

£30m Green bus support 绿色公交支持

£4m HGV Gas infrastructure 氢能基础设施

£m Hydrogen Infrastructure

£m unallocated

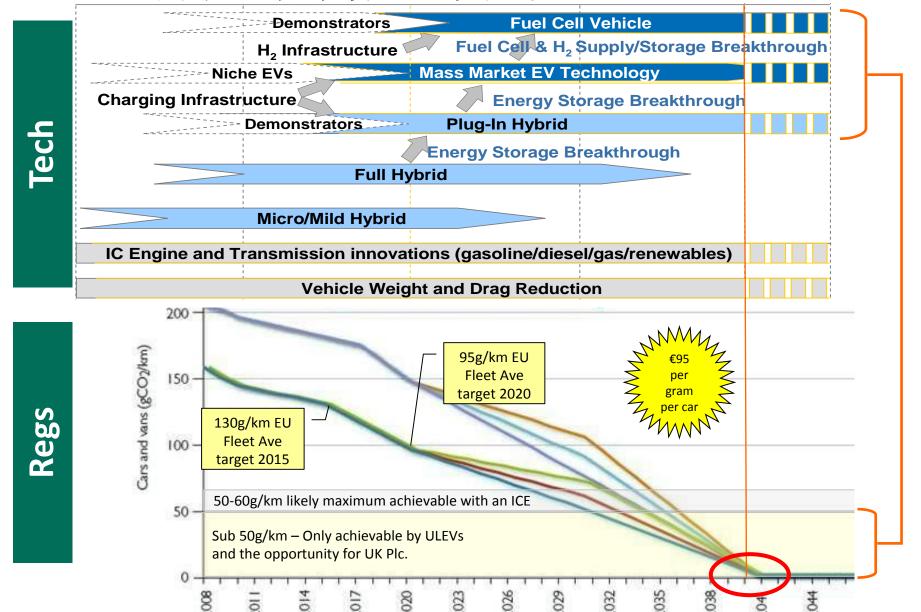






2025/30 EU Regulation critical 2025/30的欧盟政策管理至关重要







THANK YOU



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