

Technical and Operational Management Forum

7 February 2019



Hosted by



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Welcome and Agenda

Technical and Operational Management Forum

Hosted by



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Agenda

| | | |
|-------|---|---|
| 09:30 | Welcome and Agenda | Dave Tanner, Senior Operational Costs Manager at Lex Autolease and TOM Committee Chairman |
| 09:35 | Session 1: PSA Electric Vehicle Product and Network Training | Peter Ireland, Head of Programme Development Parts & Service DSP, PSA Group |
| 09:55 | Session 2: Electric Vehicle Case Study | Lorna Mcatear, Head of Supply and Internal Accounts, Royal Mail Group |
| 10:20 | Session 3: Electric Vehicles and Repairs | Andrew Hooker, Advanced Repair Projects Manager, Thatcham |
| 10:45 | Coffee Break | |
| 11:10 | Session 4: Insurance Claims | Alistair Warden, Managing Director – Corporate Motor, Towergate |
| 11:35 | Session 5: Electric Vehicle Charging | Michael Cutts, Head of Sales, POD Point |
| 12:00 | Panel Session | All speakers |
| 12:30 | Session 6: BVRLA Update | Nora Leggett, Director of Member Services, BVRLA |
| 12:55 | Chairman's Closing Comments | Dave Tanner, Senior Operational Costs Manager at Lex Autolease and TOM Committee Chairman |
| 13:00 | Close of Forum and Lunch | |

Session 1 – Peter Ireland, PSA Group

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Electrification Strategy



///AGENDA

/// CONTEXT

/// PSA SOLUTIONS

/// WHY ELECTRIFICATION?

/// OUR ROAD TO ELECTRIFICATION





/// POLLUTION



ROME TO BAN DIESEL CARS IN CITY CENTER BY 2025
High levels of traffic congestion



OCTOBER 10, 2017

The Dutch government confirms plan to ban new petrol and diesel cars by 2030

Petrol and diesel car BAN: You could face £130 fine for driving in these areas from March

certain areas in London under new flout rules.

an 29, 2018

Germany's ban 'could be Fukushima moment for diesel in Europe'

By Chris Harris

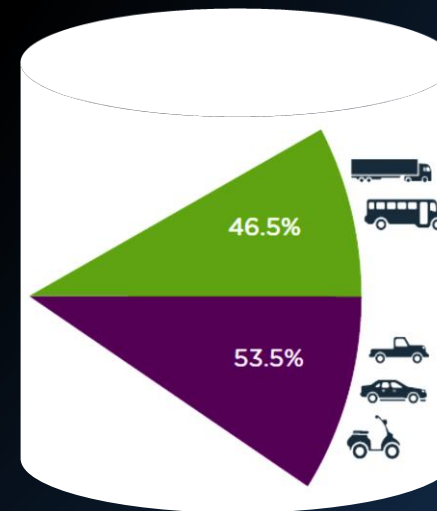
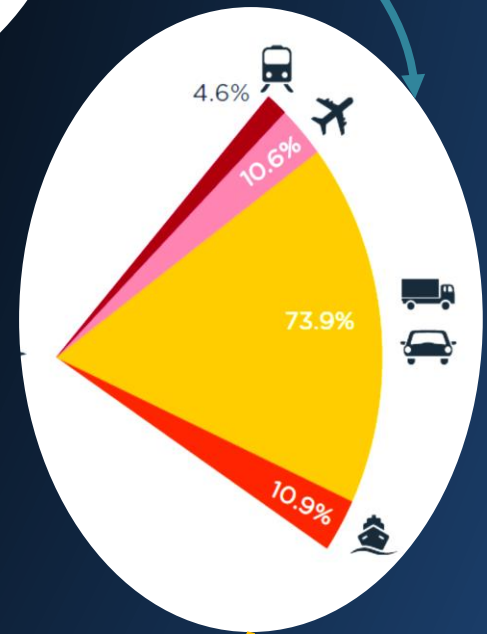
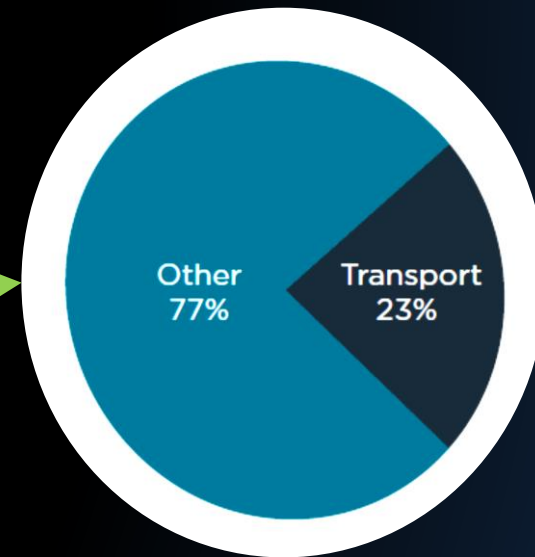
Follow @lyonanglais

last updated: 11/03/2018

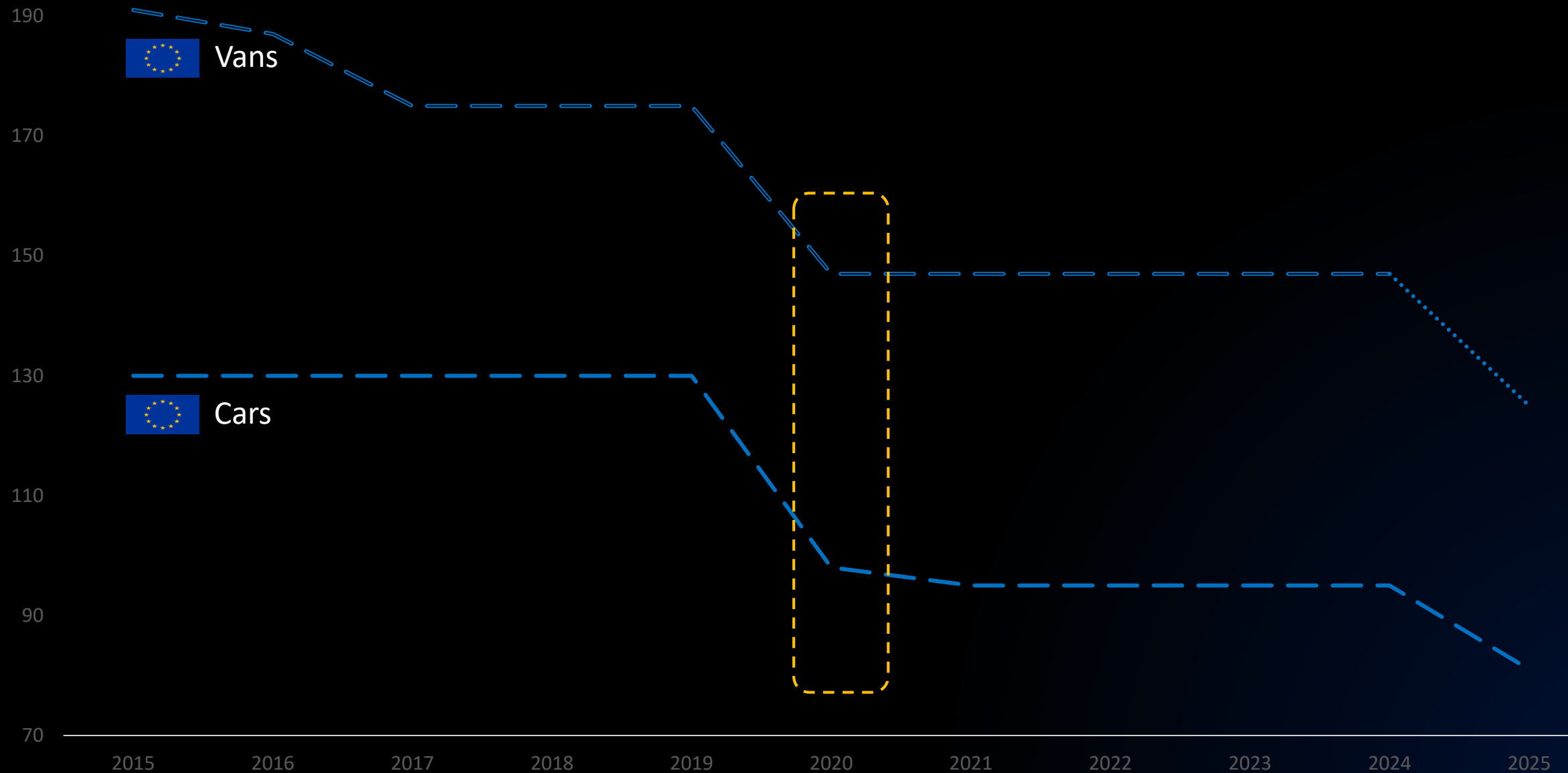
Experts say a move to allow German cities to ban diesel cars could be a key turning point in the fight against pollution across Europe.



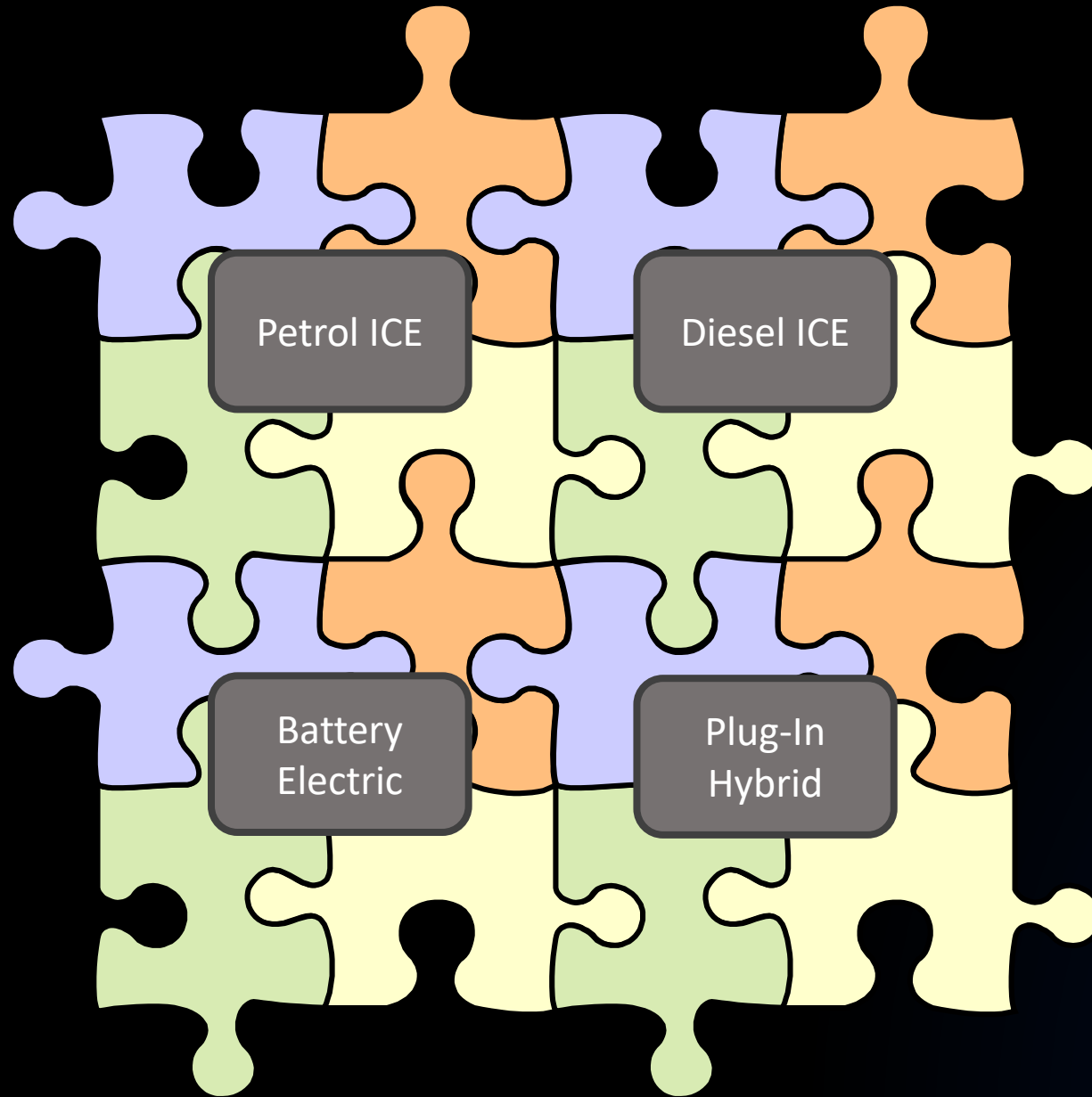
/// CO2 EMISSIONS



/// REGULATION: CORPORATE AVERAGE FUEL EMISSIONS



/// OUR SOLUTIONS



/// WHY ELECTRIFICATION?



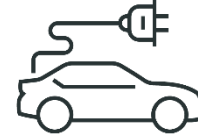
**Customer
Acceptance**



**Total Cost of
Ownership**



**Wide range of car
& LCV models**



**Charging
infrastructure
support**



**Our brands
heritage**









/// OUR SOLUTIONS

MODULAR PLATFORMS FOR MULTIPLE DRIVETRAINS

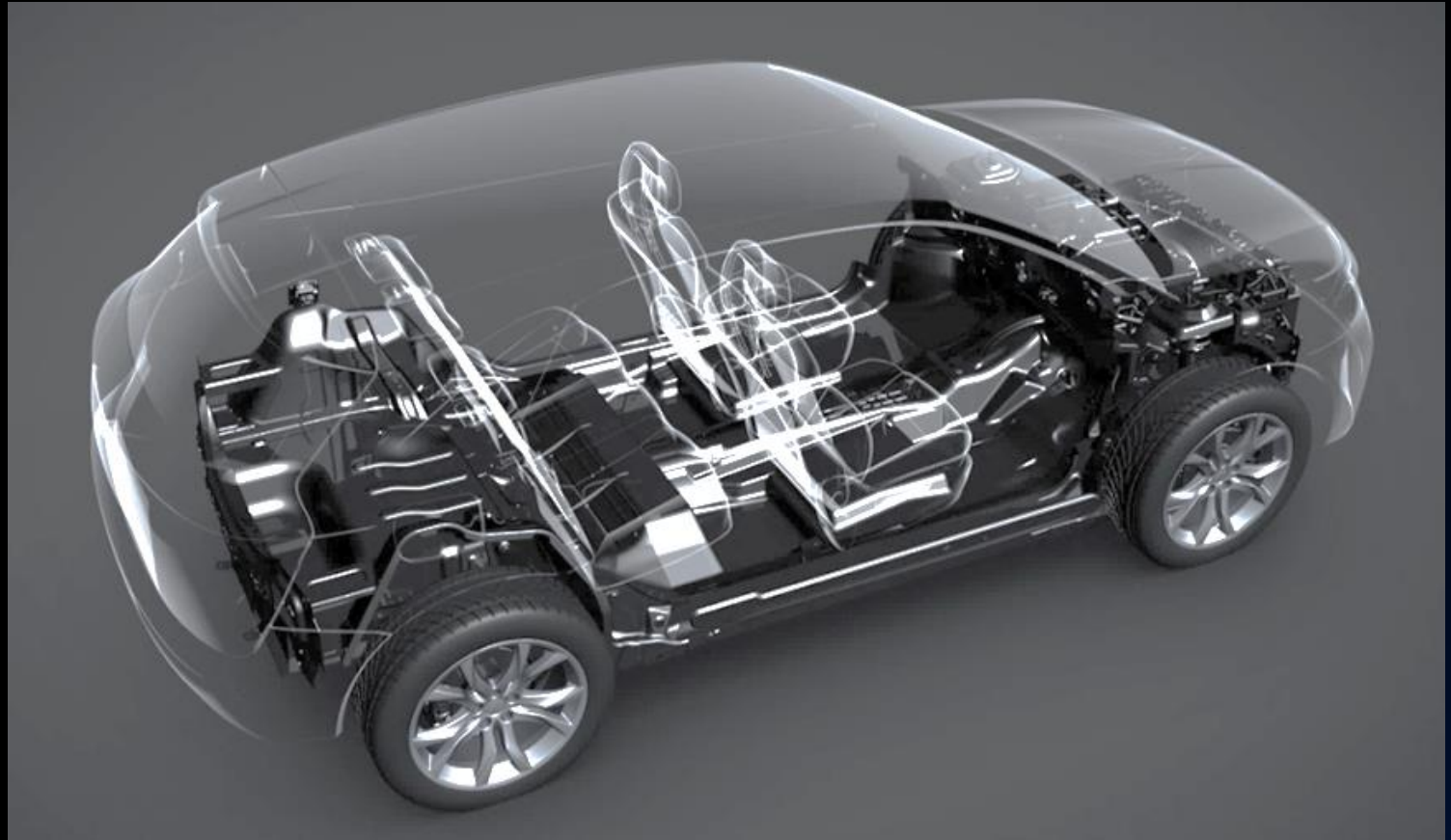
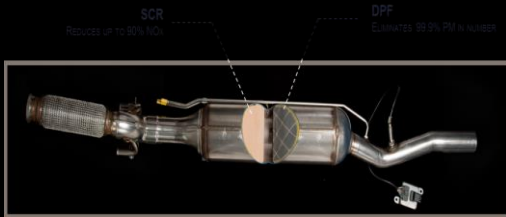
PETROL TURBO
PURETECH



BATTERY ELECTRIC
OR
PLUG-IN HYBRID



DIESEL
BLUE HDI

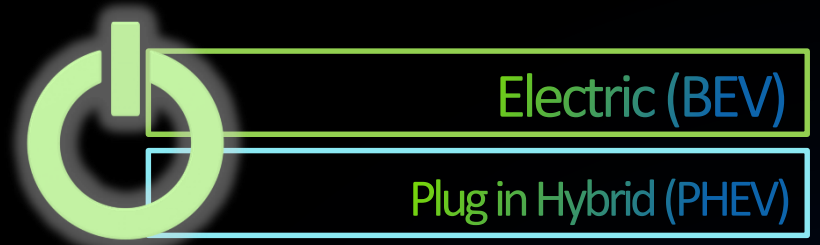


/// OUR ROAD TO ELECTRIFICATION

50% of models electrified by 2020

80% of models electrified by 2023

100% of models electrified by 2025



First launches: Plug In Hybrids



Battery Electric Vehicle



Back to the Present:
Partner/Berlingo Electric Van



Electric Vehicle - Current Range



Peugeot Partner Electric
Citroen Berlingo Electric
L1 & L2 lengths available

Identical to diesel/petrol versions
Mid range spec (SE/LX) + air con
Range: 106 miles
3 seats

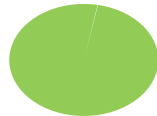


Battery – sold with the van – 8 year warranty
D/C rapid charge as standard

Does not take new 2019 shape, like the diesel versions

Charging

AC 'normal' / 'fast' charging
'Type 1' Port



8–10 hours
(100%)

3 pin domestic plug cable: 10 amps / 2.3kW

Type 2 EV socket cable: 16 amps / 3kW

DC rapid charging
'CHAdemo' Port



30 mins
(80%)

CHAdemo socket: 50kW
No cable: always tethered to charging unit

Customer chargepoints:
POD Point

Public chargepoints:
www.zap-map.com

Dashboard dials



How do you get the most out of your vehicle?

- Make use of regenerative braking – drive with anticipation, avoiding harsh braking
- Check your tyre pressures regularly
- Consider items which impact range:
 - Use heating / air con only when necessary: up to a max 45% power draw!
 - Don't carry unnecessary load
- Be guided by the dashboard dials:
 - Stay in the 'eco' section whenever possible
 - Small adjustments in speed can make a big difference
 - Remember the range predictor is adaptive

Please drive an EV!

All of these also hold true with mpg achievement – it's just more critical with electric

- If you want customers to get the most out of their electric vehicles, a planned handover with drivers of the vehicle is essential
- Why?
 - To fully understand the controls
 - To understand how to get the best performance from their vehicle
 - To understand regenerative braking
 - To understand range calculation & impacts, to lessen range anxiety

To assist with this we have developed:

- A video guide to assist: <https://academytvmedia.com/2017/08/11/5-things-electric-van/>
- A Quick Reference Guide for in-vehicle

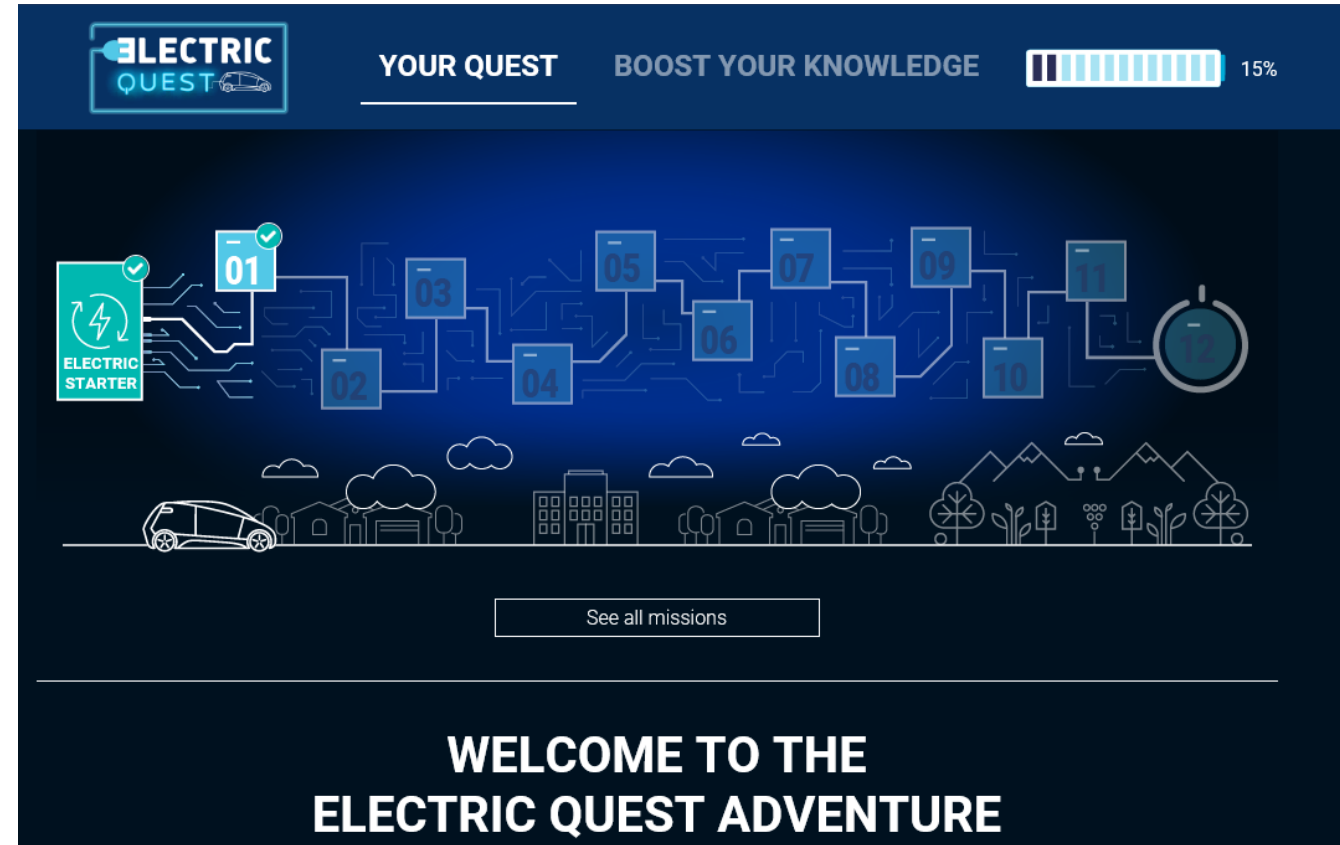
These are a summary for general advice – they are no substitute for the vehicle handbook!

Servicing, Maintenance & Repair

- Service Schedule:
 - First Service: 12,500 miles / 1 year service **including battery healthcheck**
 - Every 2 years / 25k miles thereafter
- Servicing largely about battery health test & safety checks
 - Usually an overnight booking is required due to full depletion and recharge of the battery
- Far less mechanical working parts, wear parts last longer than on an ICE
- Lower servicing costs than ICE
- Different considerations for EV repair methods
- Customers highly likely to come back to the main Dealer

Training

- E-Learning “Electric Quest” module has been developed
- Comprises of:
 - Introduction to EV
 - 12 modules
 - 1 module launched per month
- All PSA employees to complete
- All dealer staff to complete
- Objective is to provide basic EV knowledge
- Network training to be provided
 - E-modules
 - Technical training days at Technical Centre
 - Ahead of vehicle launch
 - Use of physical vehicle





Session 2 – Lorna Mcatear, Royal Mail Group

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Reducing Our Environmental Footprint

Lorna McAtear

Design and Project Lead



Fleet

Delivering first class fleet services



The UK's Largest Commercial Vehicle Fleet



Our Current Programme



The Impact From Just Our Electric Vans

Saving £1.2k p.a. per
vehicle on fuel

Avoided 321 tonnes of CO₂
emissions

Avoided c60 tonnes of
NO_x emissions

Avoided £3.9k p.a. per
vehicle on ULEZ/CAZ
charges

50% reduction in
maintenance costs per mile

Really positive driver
feedback

Health and Safety

- **300v system**
 - Vehicle Checks
 - Flood water
- **Vehicle charging**
 - Pacemakers
 - Forward Parking
- **Regenerative braking**
- **Acceleration**
- **Automatic gearbox**
- **Maintenance**
- **Breakdown Procedures**



A 12-Point Plan

Stakeholder
engagement

Initial trials

Selection of vehicle
supplier

Selection of charging-
post supplier/installer

Maintenance &
breakdown provision

Operational site
selection

Groundworks

Health & Safety

Driver training

Coordinating
deployment

Operational feedback

Knowledge share

Learning Points from Our EV Deployment

- ✓ Buying the vans is the easy part – deploying the infrastructure will take most of your time
- ✓ Check your authorised supply capacity
- ✓ Appoint a dedicated project manager - don't try to do it all yourself, especially if you have a day job
- ✓ Expect it to take longer than you thought
- ✓ Expect it to cost more than you thought
- ✓ Obtain a dedicated budget – don't assume business-as-usual budgets will cover the cost
- ✓ Work closely with your suppliers – they won't want to be associated with a failed deployment
- ✓ Manage stakeholder expectations and try to be realistic.



Thank You



Fleet

Delivering first class fleet services

Session 3 – Andrew Hooker, Thatcham Research

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Training requirements for electric vehicles in repair & maintenance

Andrew Hooker, Advanced Repair Project manager
February 2019

Thatcham
Research
1707ENF



Thatcham
Research
SAFER CARS. FEWER CRASHES

Content

1 The challenge

2 Damageability

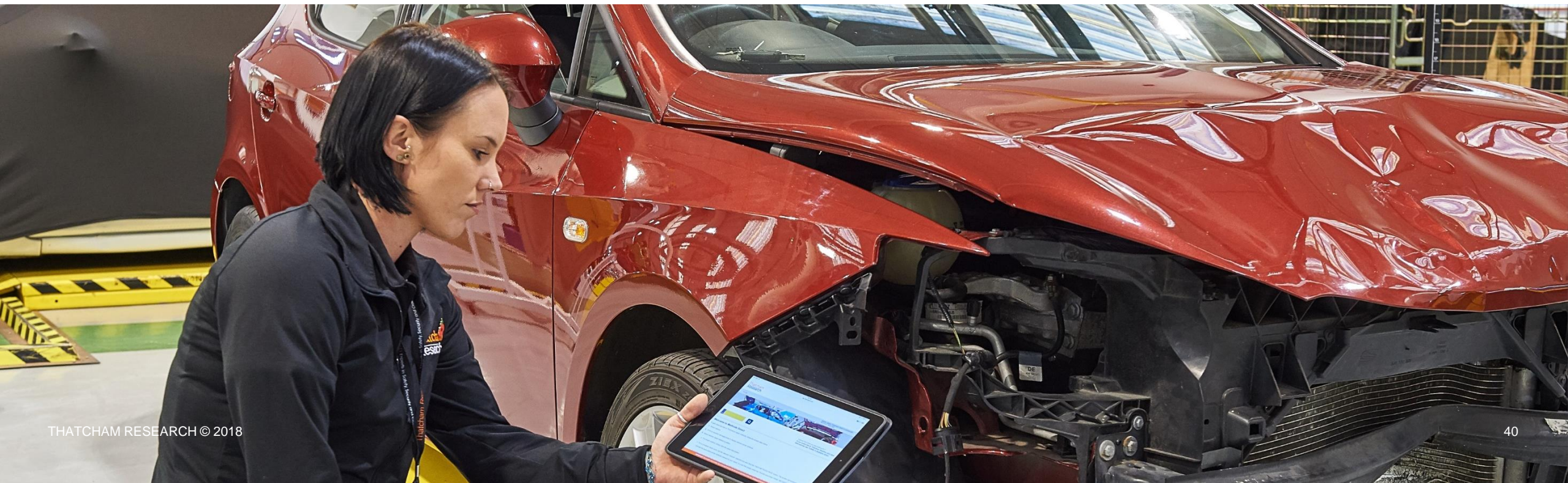
3 Repairability

4 Accident specific training into technical

5 The Future

Damageability

- Greater propensity for damage?
- Simpler, but different



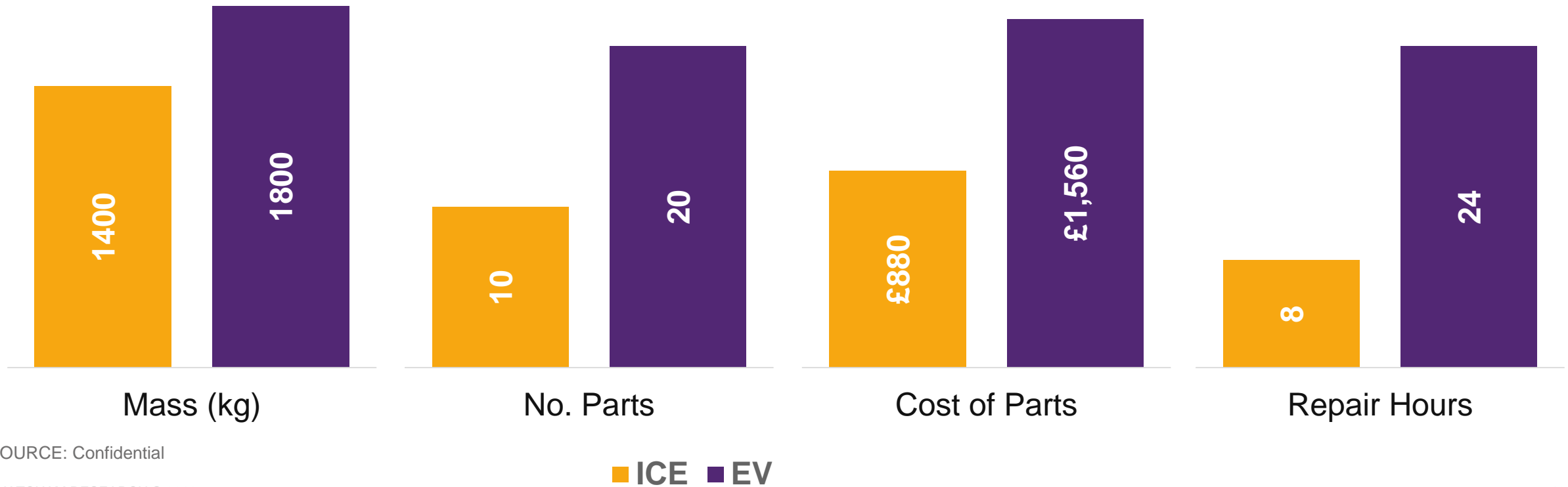
Damageability

➤ Unique accident scenarios



ICE vs EV Damage & Repair

> Direct ICE vs EV model comparison



SOURCE: Confidential

THATCHAM RESEARCH © 2018

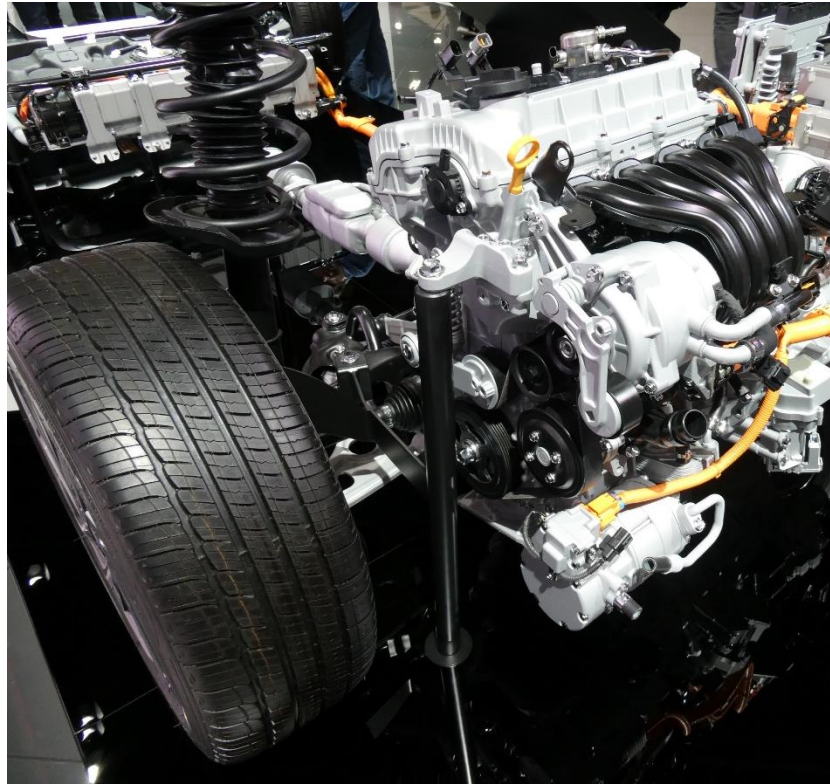
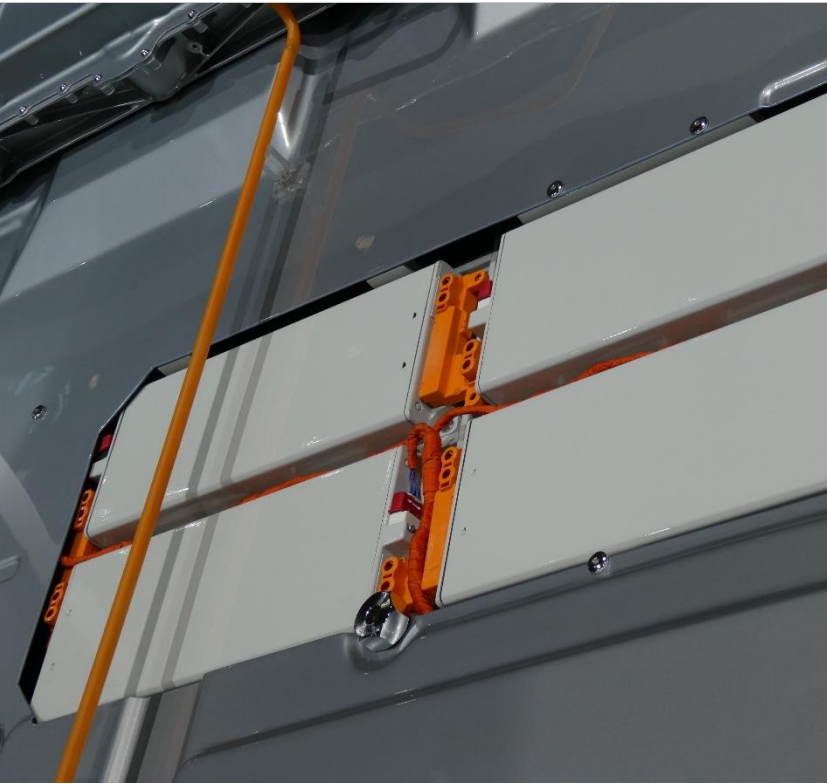
Challenges

- Pyro fuses tripping in small accidents
- Identifying a safe or unsafe condition
- Unexpected scenarios



Challenges

- Indirect damage to battery packs
- Lack of health diagnostic information
- No repair/replacement strategy
- Huge diversity of architecture
- High parts costs & poor availability



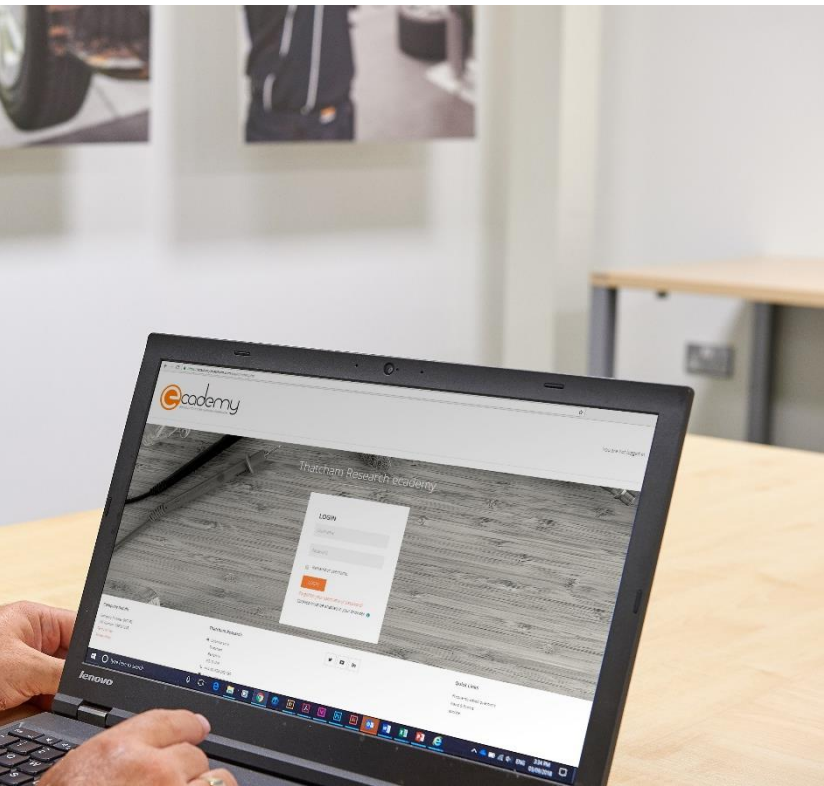
Repairability

- Repair scenarios that don't appear to have been considered



Repairability

- Clear strategy on repair/replace
- Using existing and/or consistent diagnostic kit
- Clear & prompt availability of components
- Available training, specific for body repair



Specific for body repair

- Unique risks
- Safe recovery without consequential damage
- Making safe
- Heat!
- Repair and reinstatement

is in the workshop of fully electric or electric hybrid vehicles that have major damage.

fully electric vehicles on the road gives the motor industry new safety as the risk of injury is low but you must take care when you handle the air technician must be trained to a sufficient level to do the work on any here can be other people that will not be aware of the risks related to these

vehicle.

bad effect on medical equipment and pacemakers for the heart. It is health of any person that is exposed to these vehicles. equipment that includes protection for the face. This is because any damage is a leak of the electrolyte.

system/battery you must make the alkaline electrolyte neutral with a brick granules with 20 litres of water to make this solution.

dangerous gases can be released. **Warning - Some of these gases such as or can be explosive.**

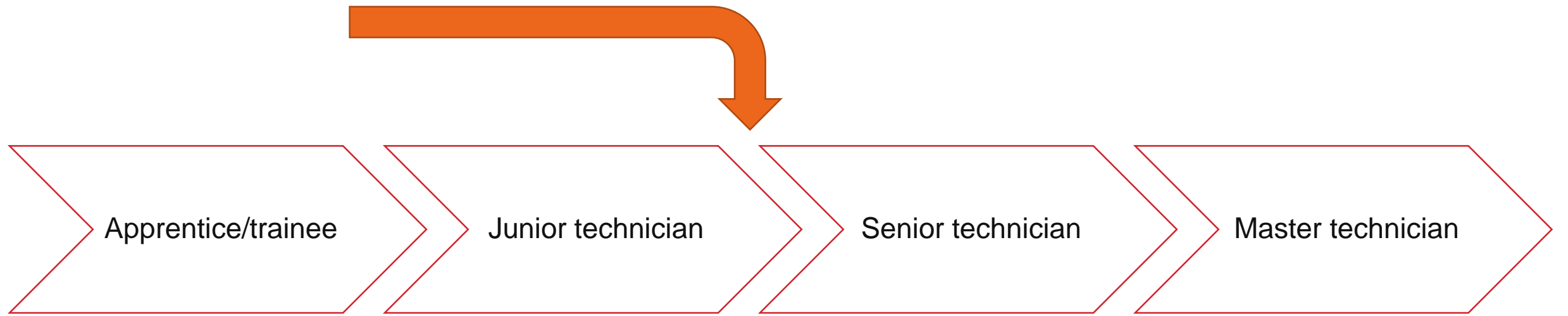
airflow to the location of the vehicle. Some gases can give a sweet odour, or odour. Facemasks do not give sufficient protection from the asphyxiants. vehicle that is caused by fire or water. This is because there is a danger that port and/or a fire, if this happens:

age battery will tell you which fire extinguisher to use. For some batteries you shet

perature of the high voltage battery does not go above its maximum limit.

864

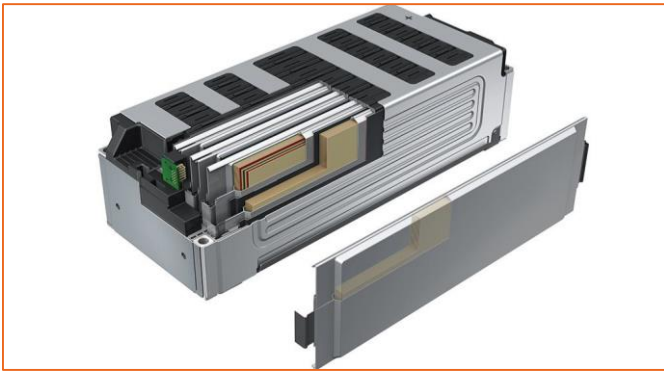




The Future

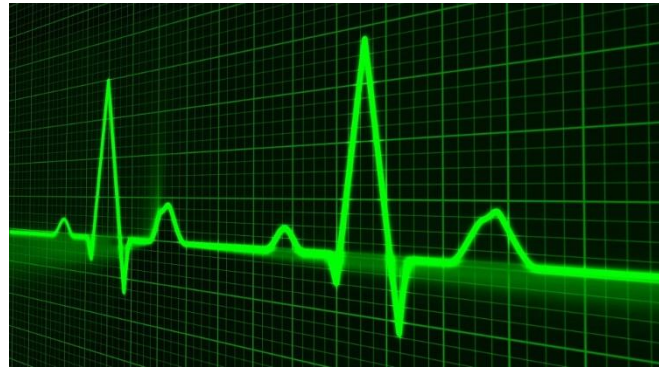


Future Focus



availability

- Common parts (modules) & training across platforms and/or brands?



Diagnostics

- Accessible diagnostics for battery health



Repairability

- Continued focus on D&R impact of new technologies



Thank you

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Session 4 – Alistair Warden, Towergate

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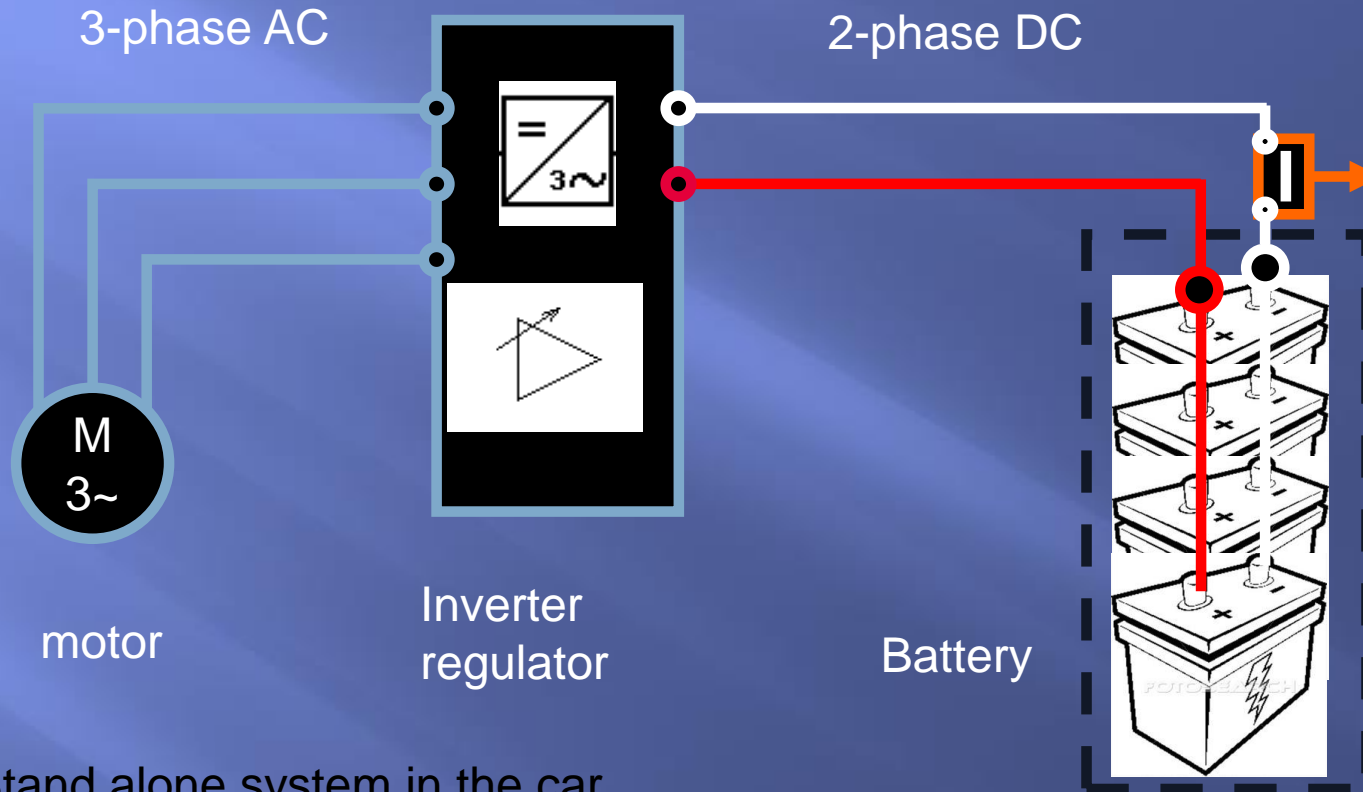
Electric Vehicles

Insurance market insight

Alistair Warden ACII
MD Corporate Motor

7th February 2019

HIGH VOLTAGE CIRCUIT

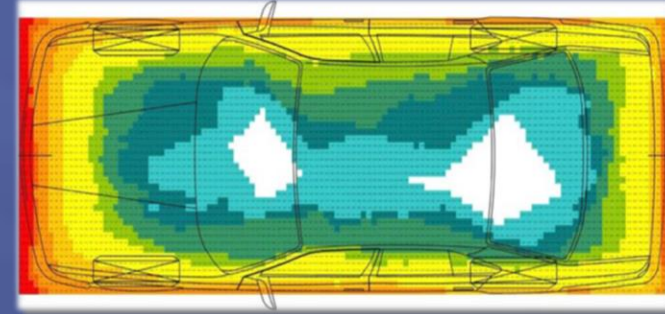


- Stand alone system in the car
- Isolated from 12V system
- Charging of 12V battery
- Pilot-cables and main contactor switching via 12V system



SAFE BATTERY LOCATION

- GIDAS-analysis of intrusions after accidents with bodily injury show low probability of intrusions above the rear axle and in the vehicle's center
- BEVs and PHEVs typically have batteries between the axles
- HEVs have their batteries beneath or behind the rear seats



BEV
HEV
PHEV

Battery Electric Vehicle
Hybrid Electric Vehicle
Plug-in Hybrid Electric Vehicle

HV HARNESS PLUGS/CONNECTORS

Secure contact mandatory

- Contact pressure needs to be guaranteed – screws or interlocks necessary
- Wires have to transport high currents of some 100 A
- All HV wiring needs to be shielded due to high frequent power peaks
- Shielding provides a method to control for isolation issues
- Currently no repairs allowed for HV harnesses



HV cables and connectors are always orange



VEHICLE ASSESSMENT

Deactivation necessary?

- Do not touch damaged cars that are not in a safe condition
- Status indication on the dashboard?
- Severely damaged vehicles – ask for confirmation that the HV system is deactivated
- OEMs generally provide criteria for inspection of battery
 - Diagnosis tester (documentation of damage/condition/claim)
 - mechanical damage
 - connectors, case/housing, blow-out discs



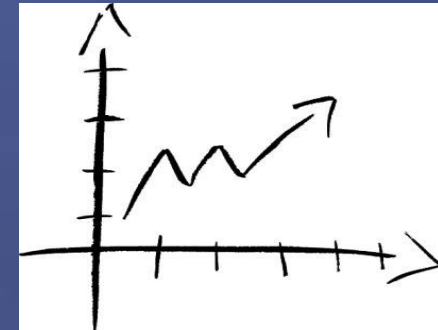
CLAIMS EXPERIENCE



AZT GERMAN STUDY 2017

General findings

- EVs have low mileage (significantly lower than ICE)
- EVs have more accidents in cities and suburban areas
- EVs have an untypical high share of high repair costs or total losses
- Average age of damaged cars is 1.6 years.
- According to market data EV's claims frequency is lower but costs are higher than average



Other data

- 3 cases of lightning strike, all not affecting the vehicle itself (charger, cable)
- 5 cases of car fire, always external ignition (4 arson)
- 6/288 or 2% cases required repair to the HV system

ICE

Internal combustion Engine

LEASED BATTERIES

Leased Battery?

- Renault and Nissan lease batteries to the vehicle owner.
- This does not pose any issues for a standard repair however issues arise regarding ownership when a vehicle is deemed a total loss.
- The insurer will take ownership of the of the salvage but the battery remains property of the lease company. This poses extra cost in removing the battery and a reduction in salvage values due to the salvage not having a battery fitted.



CLAIMS HANDLING

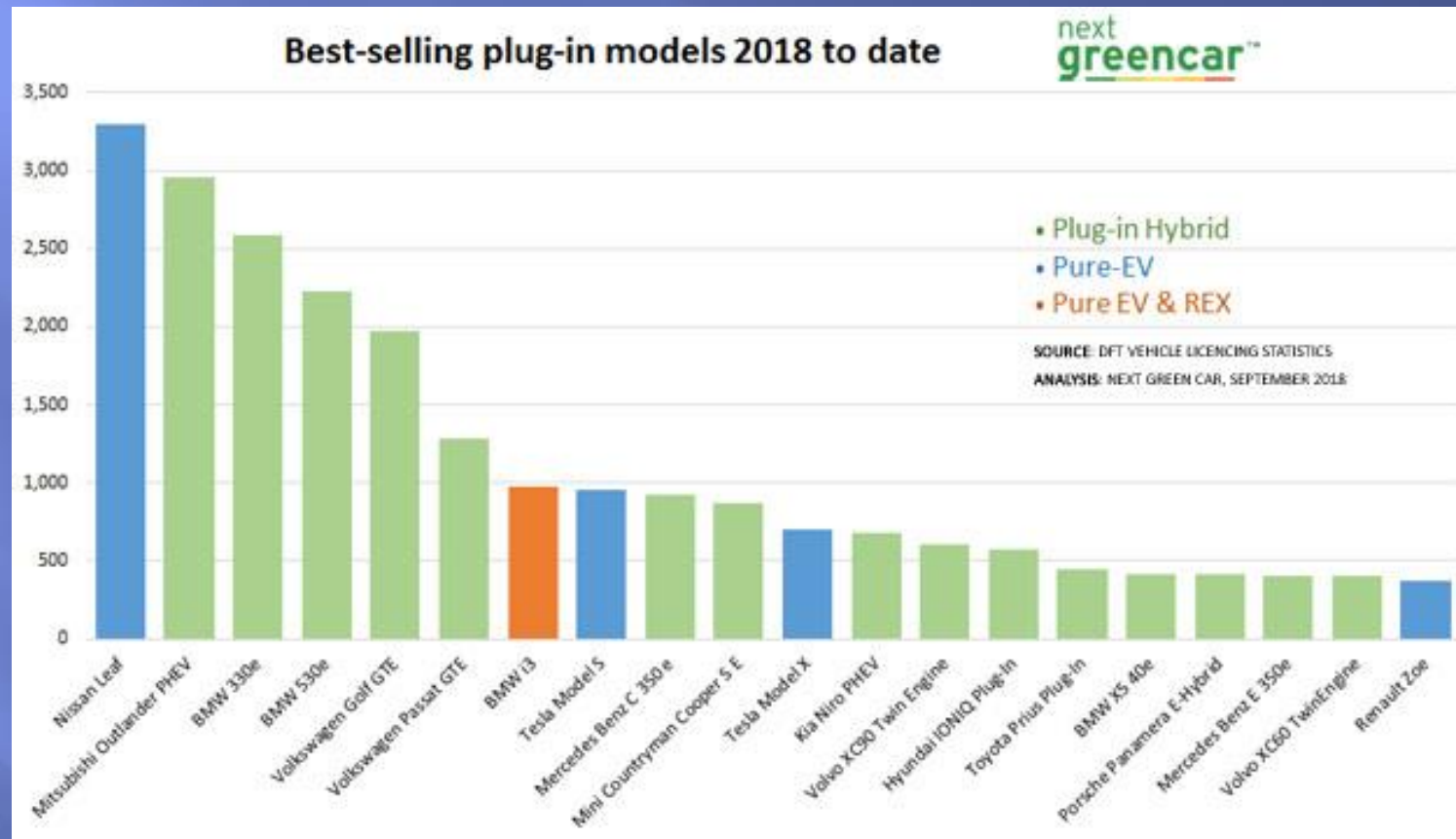
- Claims to EV are less frequent but more expensive compared to ICE vehicles. The higher costs can be attributed to investment in training and equipment, higher labour rates due to the low number of qualified repairs (supply and demand).
- Cycle times typically longer due to parts availability as a result of the low number of vehicles currently in the marketplace.
- Data shows that very few repairs to the HV system however there is often the need to deactivate the HV systems for repair
- Car fires have been seen however compared to ICE vehicles EVs provide at least the same level of safety
- Where the battery or the HV system is potentially damaged, special requirements issued by the OEM are available and have to be adhered to.
- Total loss vehicles with leased batteries claims handling can be complex and more costly than ICE

MARKET PENETRATION



- The last four years have seen a remarkable surge in demand for electric vehicles in the UK – new registrations of plug-in cars increased from 3,500 in 2013 to more than 192,000 by the end of December 2018.
- By the end of 2018, more than 60,000 plug-in cars had been registered over the course of the year - a new record. This significantly improved upon the previous record, set in 2017, increasing it by more than 13,000 units.

BEST SELLING MODELS



Plug-in hybrids have rapidly taken the majority share of the electric car market - currently sitting at 68%. From accounting for less than a third of plug-in sales at the beginning of 2014, four years later they represent two out of every three plug-in cars sold by the end of Q2 2018.

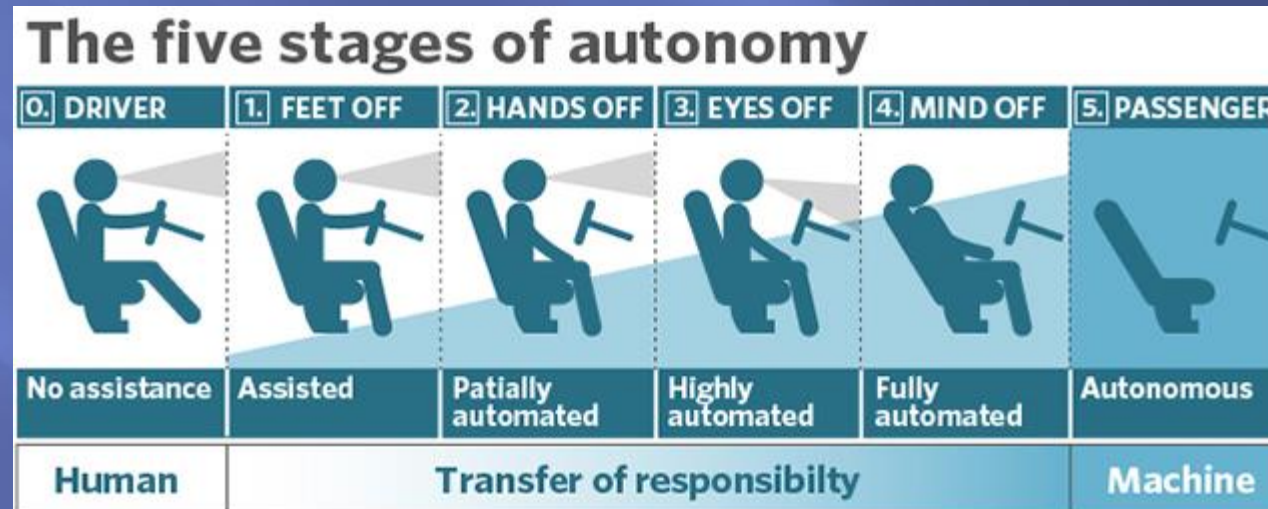
Other emerging trends

- Parts even on modest vehicles are increasing in cost – many have assisted braking technology in bumpers and windscreens
- Windscreen costs increasing
- The Brexit effect
- Theft
- Personal Injury costs
- Autonomous vehicles



Autonomous Vehicles

- The 6 levels of automation
- The legal situation
- Data
- Customer confusion





Session 5 – Michael Cutts, POD Point

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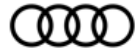
pod POINT

Topics

- Current EV market
- Electric vehicle launches
- Driver charging behaviour
- Developments in charging points
- Current barriers to adoption for Leasing & Rental
- EV market projections



POD Point



Sainsbury's



Heathrow
Making every journey better

SKANSKA

TESCO

BRITVIC
LIFE DRINKS

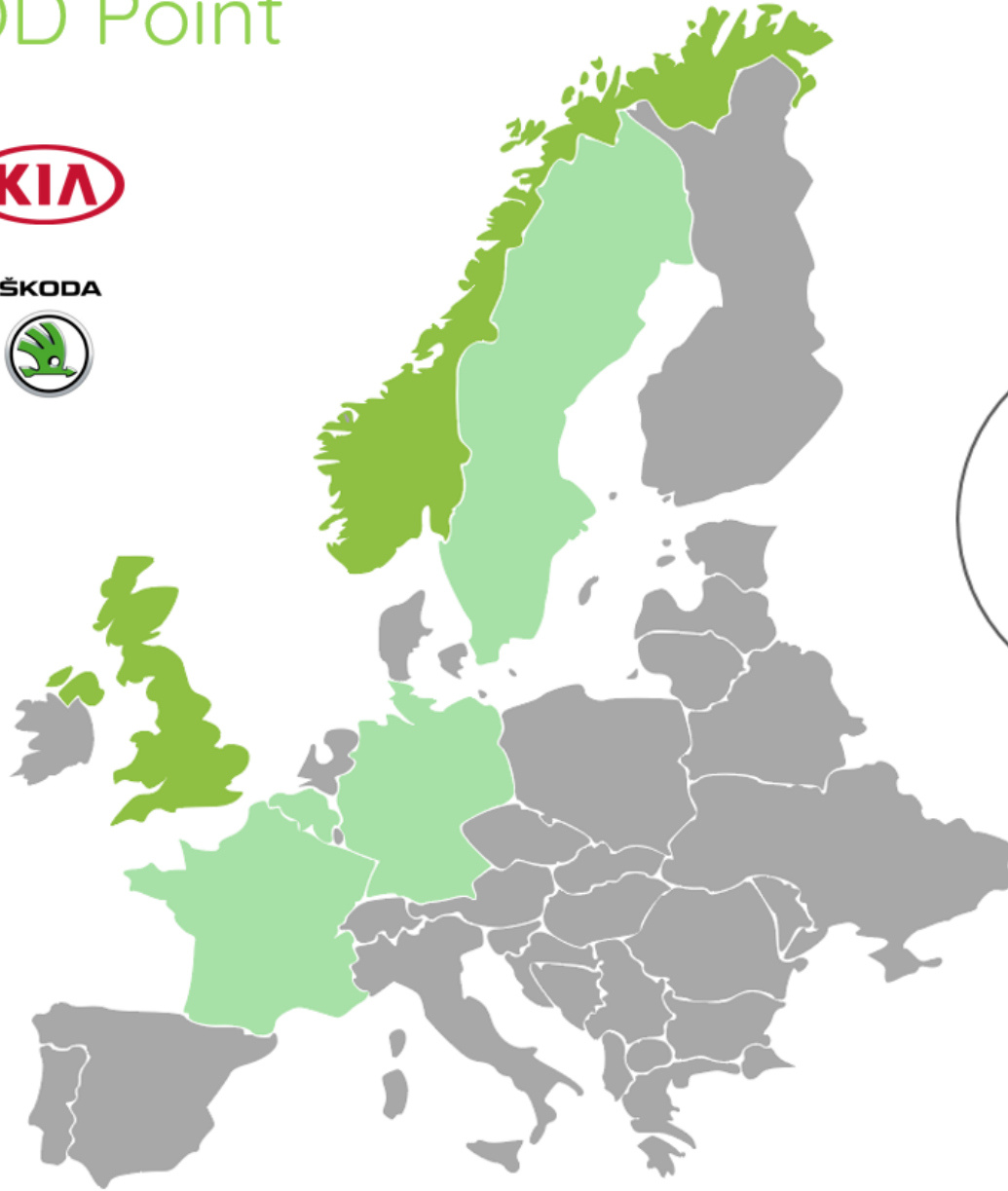


LEX AUTOLEASE

gsk
GlaxoSmithKline



AVIVA



Home Installs
60,000+
Public Points
2,200+
Active Dealers
750+





Market Overview

202,000

Plug-in Cars



Reg. UK Jan 2019 (Approx)

10,000

Plug-in Vans



Reg. UK Jan 2019 (Approx)

120

Plug-in Models



Jan 2019 (Plus variants)

18,685

Public Charging
Connectors



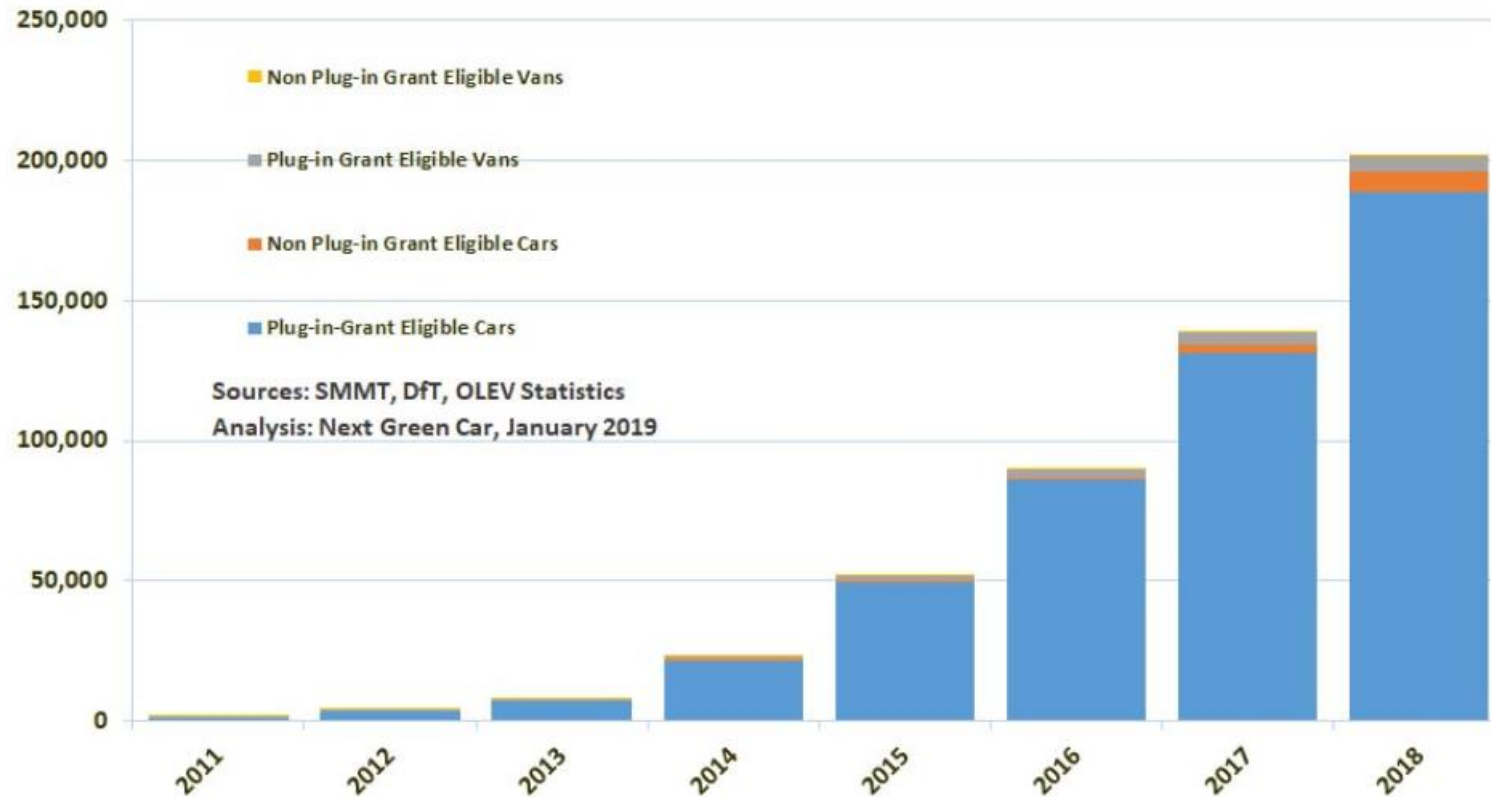
Jan 2019





Market Overview

Cumulative electric vehicle registrations (UK) 2011-2018 **next greencar™**



Source: SMMT, OLEV, DfT Statistics; Analysis: Next Green Car, January 2019.



Over 60,000 plug-in cars were registered in 2018, which was a record year and accounted for 2.5% of UK registrations.

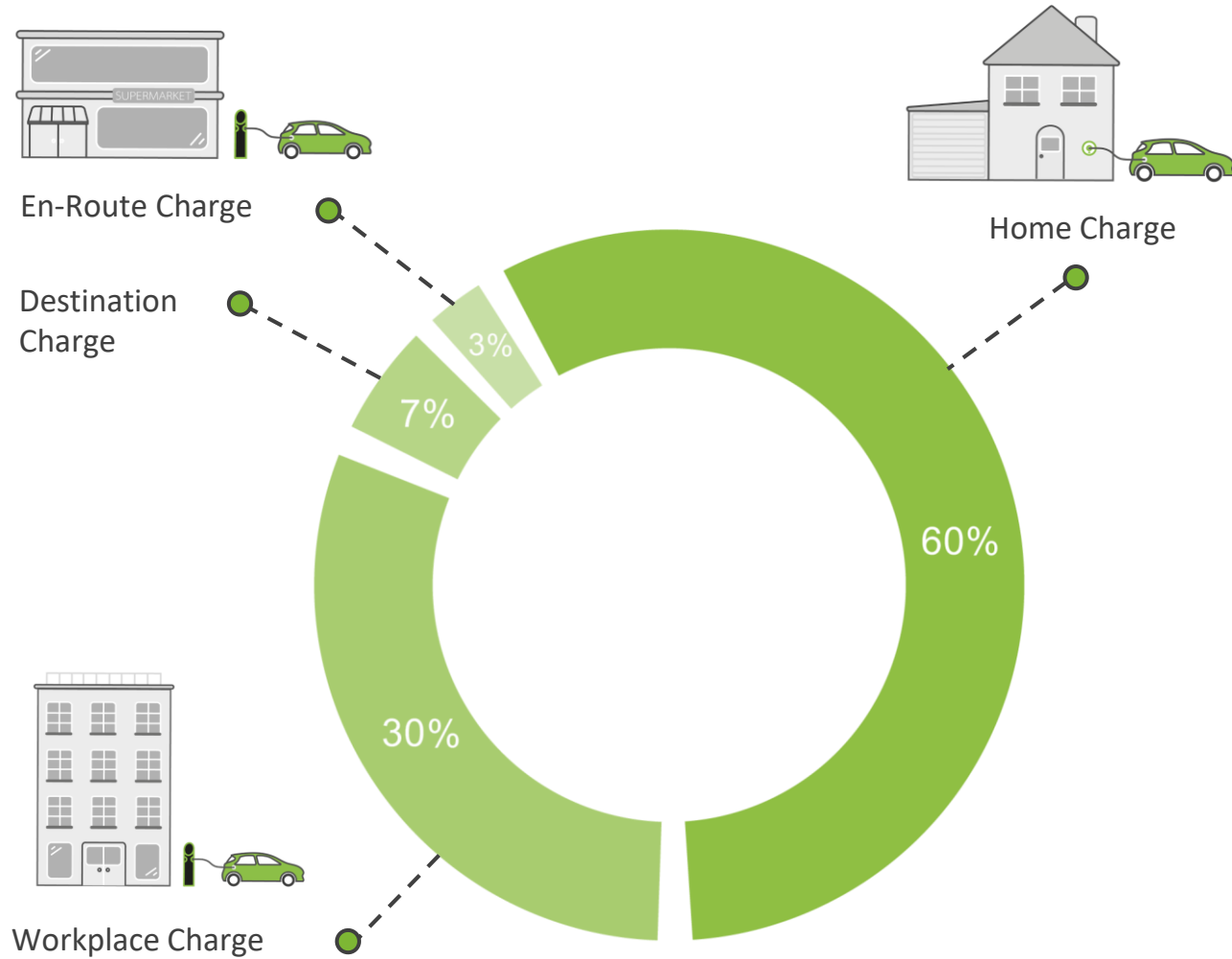


New EV's

| Manufacturer | Model | EV Type | UK Launch Date |
|-----------------|------------------------|---------|----------------|
| Audi | e-tron | BEV | Q1 2019 |
| Audi | e-tron Quattro SUV | BEV | Q1 2019 |
| BMW | 330e | PHEV | Q1 2019 |
| Faraday | FF-91 | BEV | Q1 2019 |
| Kia | Soul | BEV | Q1 2019 |
| Kia | e-Niro | BEV | Q1 2019 |
| Nissan | LEAF (64 kWh battery) | BEV | Q1 2019 |
| Skoda | Superb | PHEV | Q2 2019 |
| DS | DS 7 Crossback E-Tense | PHEV | Q3 2019 |
| MG | ZSE | BEV | Q3 2019 |
| Ssangyong | Korando | BEV | Q3 2019 |
| Volvo | S60 | PHEV | Q3 2019 |
| VW | Golf GTE (Mk 8) | PHEV | Q3 2019 |
| Aston Martin | Rapid E | BEV | Q4 2019 |
| Audi | e-tron Sportback SUV | BEV | Q4 2019 |
| Citroen | C5 Air Cross | PHEV | Q4 2019 |
| DS | DS 3 E-Tense | BEV | Q4 2019 |
| Mini | Mini E | BEV | Q4 2019 |
| Mercedes | EQC | BEV | Q4 2019 |
| Peugeot | 208 | BEV | Q4 2019 |
| SEAT | e-Mii | BEV | Q4 2019 |
| Skoda | e-CitiGo | BEV | Q4 2019 |
| Tesla | Model 3 | BEV | Q4 2019 |
| Harley-Davidson | Livewire | BEV | Q3 2019 |



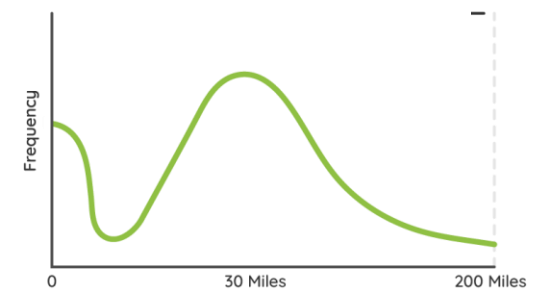
Ecosystem



EV charging is a top-up model,
like a mobile phone

1.5

Net 1.5 charge points
per EV



Miles Driven/Day





Charge Point Types

Solo



Twin



Rapid





TESCO Partnership

- Pod Point, VW and Tesco to roll out 2,400 EV charging bays by 2020
- 600 Tesco Extra and Superstore car parks
- 7KW fast chargers - free to use
- 50kW rapid chargers - PAYG (market rates, contactless cards)
- Universal chargepoints

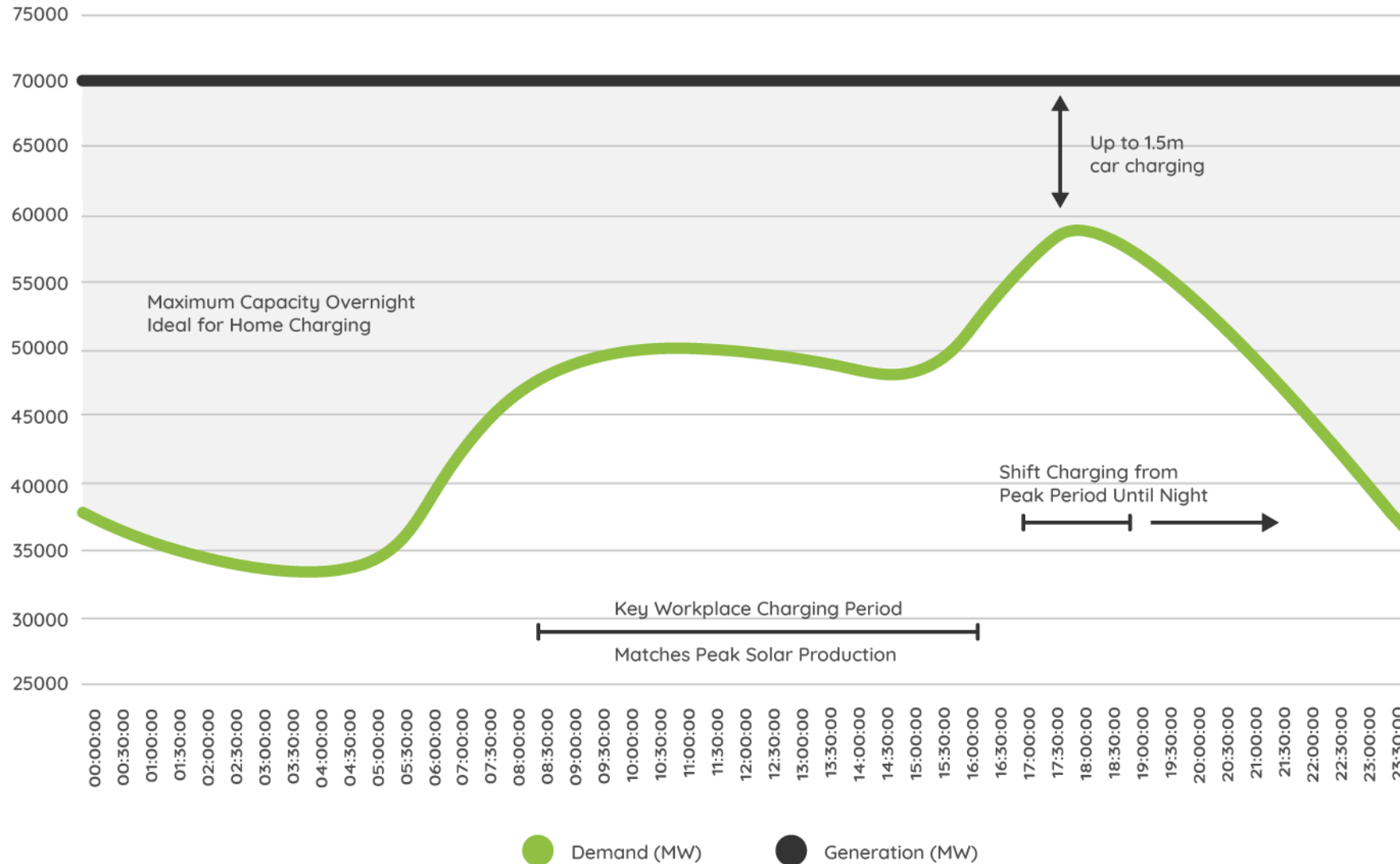


“This partnership represents a 14% increase in the number of public charge bays in the UK and is a monumental day for electric vehicle drivers. It is a massive leap forward for the UK and a significant step in our mission to put a Pod Point everywhere you park.”

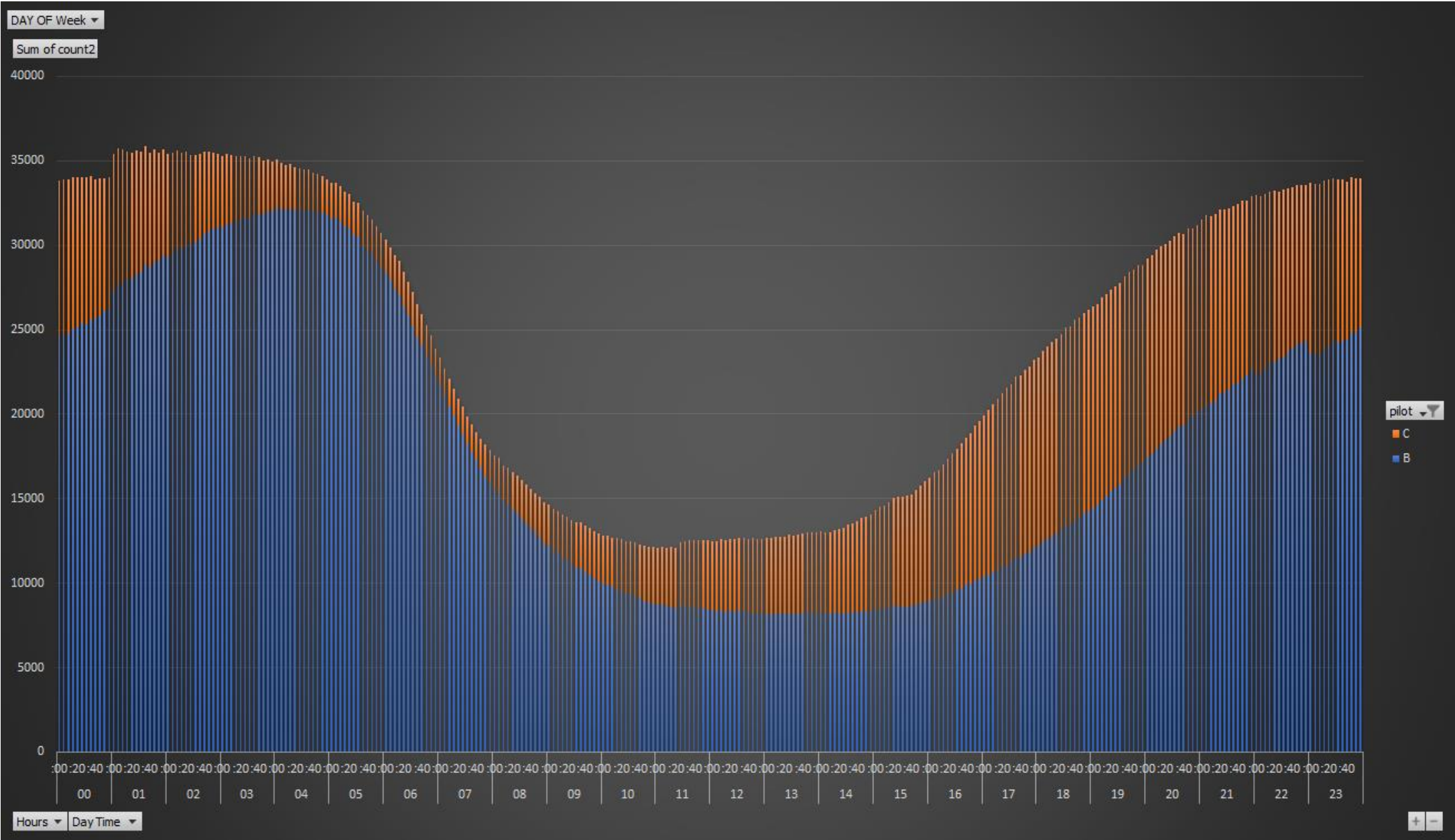
Erik Fairbairn – Pod Point CEO

Is there enough electricity?

Typical 24hr Winter Demand vs Generation (MW)



Plugged in Standby vs Charging





Shorter Term Opportunities for Smart Charging

1. Time Shifting

Moving default charging to periods of low demand, override available on demand (may incur premium);

2. Maintain customer convenience

Use flexibility to ensure reduced and/or delayed charging doesn't inconvenience drivers;

3. Managed charging start

Ensure charging is staggered to prevent sudden demand surges;

4. Incentivisation

Increased prevalence of time of use tariffs (even more Economy 7)

5. Universality

Need to ensure dumb chargers are phased out. Limit draw of dumb chargers to ~16A?





Longer Term Opportunities for Smart Charging

1. Time Shifting

Moving default charging to periods of low demand and/or high renewable supply;

2. Maintain customer convenience

Use known customer flexibility to ensure reduced and/or delayed charging doesn't inconvenience drivers;

3. Managed charging start

Ensure charging is managed to prevent sudden demand surges;

4. Incentivisation

Genuine market mechanisms at grid, network and energy market level to incentivise customers appropriately; and

5. Universality

Commercial incentives should ensure smart charging is financially compelling over dumb charging.





From EV to the new energy Ecosystem

EVs engage consumers in the world of energy at the dawn of:

- Ever increasing renewable generation and huge proliferation of micro-generation;
- Deployment of grid level and micro storage; and
- The transition from DNO to DSO; and
- At the twilight of conventional generation.

This means EV drivers become key energy stakeholders, can own their own energy ecosystem.
Become “prosumers”!



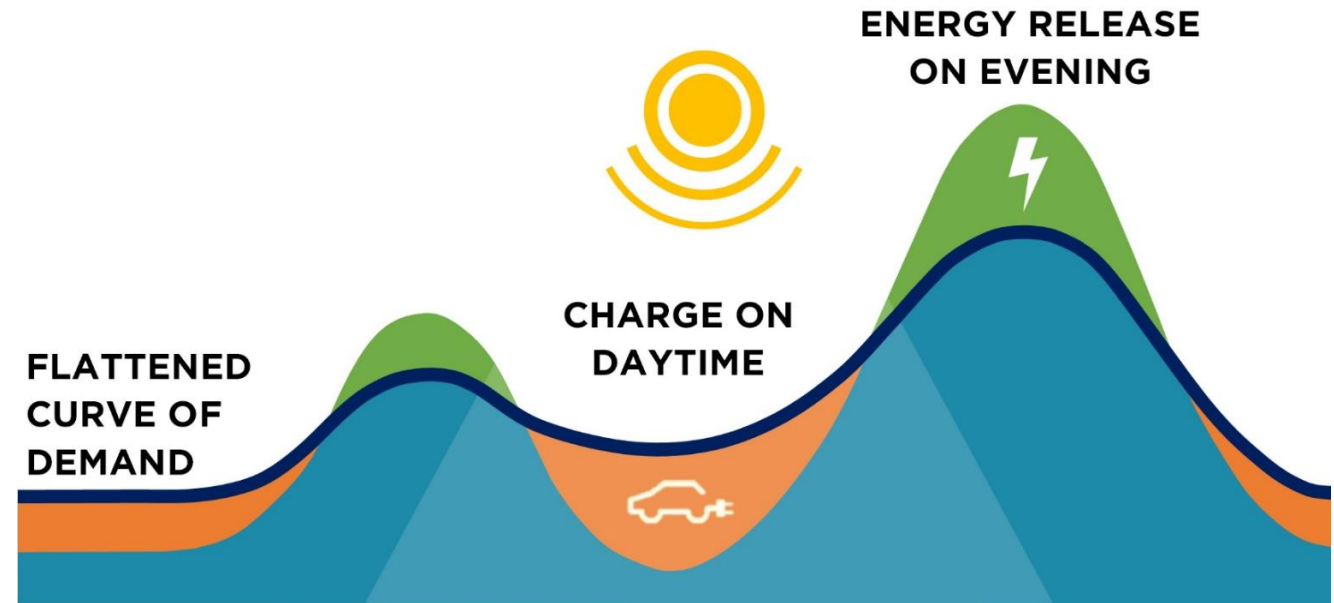


Energy storage

The development of battery tech means consumers will be able to store energy domestically, greatly with intermittency of renewables.

Fixed Storage vs. Vehicle-to-Grid

- V2G cheaper - buy one battery!
- But different usage cases for domestic/EV cells; and
- Car not always at home!





Leasing and Rental Partnerships





Pod Point Fleet Solutions

- Fleet decision maker and company car driver guides.
- RFID as an option for pool car/van fleets.
- Bespoke Electrification Strategy Tool (BEST).
- Eco-system reporting – home, work, public charging in MIS system.
- Integration with OEM fleet teams to help develop mutual opportunities.
- ANPR trial with DHL
- App based personal / business expense allocation.

Company Electric Cars

Save money & the environmental impact

pod POINT

Why go electric?

| | Costs | You save with Electric | |
|---|-------------|------------------------|----------------|
| | | Hybrid (PHEV) | Electric (BEV) |
| Average fuel savings/3 years | £6,360 | - £2,220 | - £4,200 |
| Fuel Costs/mile | 10.6p/mile | - 3.7p/mile | - 7p/mile |
| BIK Bands 2018-21 | 24%/27%/28% | 13%/16%/14% | 13%/16%/2% |
| Tax Payable 2018-21 20% Tax | £3,137 | - £834 | - £1110 |
| Environment Impact (CO ₂ Emissions) | 58g/mile | - 42g/mile | - 58g/mile |

Congestion Charging: All PHEV and BEV vehicles receive a 100% congestion charging discount.
Average saving over 3 years. Based on a yearly mileage of 20,000.

| | Costs | You save with Electric | |
|---|-------------|---------------------------|----------------------------|
| | | 4x4 Plug-in Hybrid (PHEV) | 4x4 Battery Electric (BEV) |
| Average fuel savings/3 years | £9,240 | - £3,240 | - £5,640 |
| Fuel Costs/mile | 15.4p/mile | - 5.4p/mile | - 9.4p/mile |
| BIK Bands 2018-21 | 33%/36%/37% | 13%/16%/14% | 13%/16%/2% |
| Tax Payable 2018-21 40% Tax | £16,430 | - £10,118 | - £7,819 |
| Environment Impact (CO ₂ Emissions) | 89g/mile | - 64g/mile | - 89g/mile |

Congestion Charging: All PHEV and BEV vehicles receive a 100% congestion charging discount.
Average saving over 3 years. Based on a yearly mileage of 20,000.

Where a typical EV driver charges:





Barriers to EV adoption for the Leasing and Rental Industry

1. Supply

OEM's control the market

2. Holding Cost

Low Tactical OEM discount / Unstable RV's / Unpredictable Grants

3. Customer Profile

Typically higher mileage drivers on fleets - range anxiety and PHEV practicality

4. Awareness

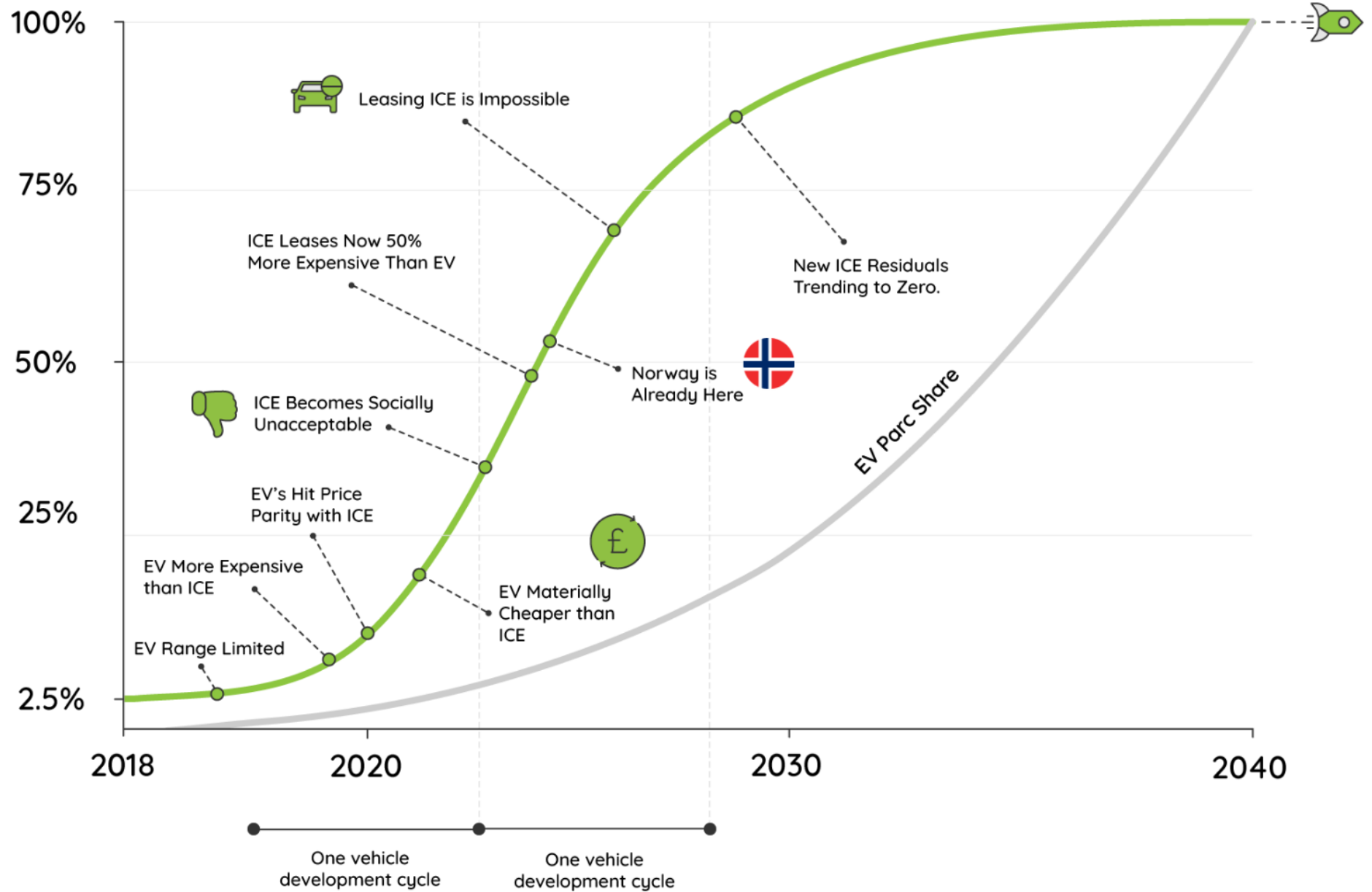
Recognition of pace of change

5. Education

Knowledge gap within business



EV Adoption





Michael Cutts
Head of Homecharge, Fleet & Leasing
Email: michael.cutts@pod-point.com

pod POINT

Session 5 – Nora Leggett, BVRLA

Technical and Operational Management Forum

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‘Skin in the Game’



By 2025, the UK rental and leasing sector will increase its annual purchase of new plug-in vehicles from **17,000** to **300,000** per year. The industry's share of annual plug-in hybrid and pure EV registrations will rise from 36% to 60%. As a result, BVRLA members' total plug-in fleet will rise during this period, from **50,000** vehicles today to **720,000** in 2025.

bvrla.co.uk

“We want to work in partnership with industry and businesses to make these shared ambitions a reality, so we welcome the commitment made by BVRLA today.”

*Transport Minister Jesse Norman,
July 2018*



Car rental companies plug into electric

◆ Car rental and leasing firms have pledged to increase their fleet of plug-in vehicles from the current 50,000 to 720,000 by 2025.

The commitment was made by the British Vehicle Rental and Leasing Association (BVRLA) on behalf of its 900 members. The sector is responsible for one in eight cars on UK roads, according to the trade body.

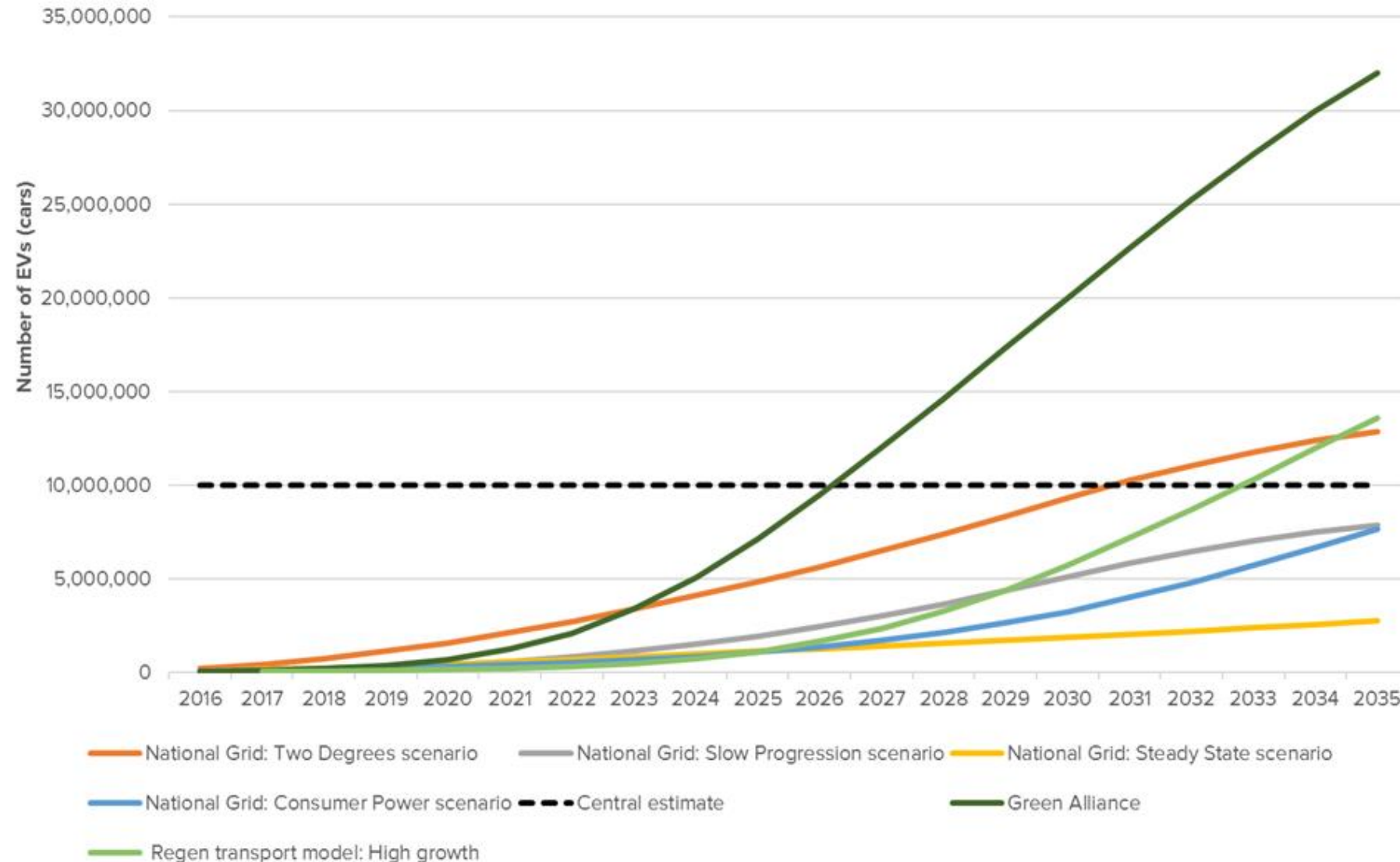
The target to make at least half of new car sales ultra-low emission by 2030 was included in the Government's recently published Road to

Zero Strategy. The BVRLA warned that its pledge on hybrid and electric cars depends on ministers providing more support for adopting the technology.

This includes bringing forward plug-in company car tax incentives from 2020.

Gerry Keaney, the chief executive of BVRLA, said: “Fleets are ready to make a large-scale transition to zero-emission motoring, providing that the Government can match their ambition with a supportive tax regime and more help with charging infrastructure.”

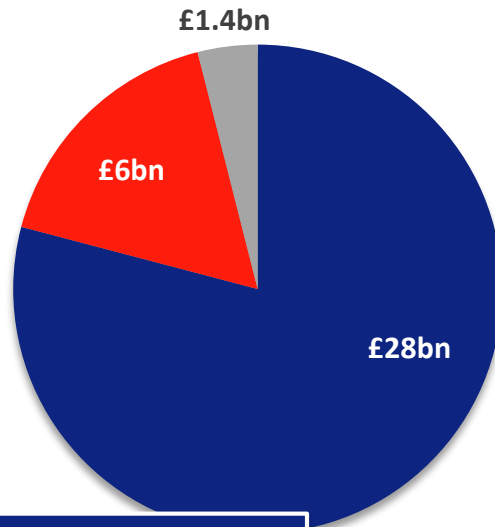
Projections of EV growth in UK



Source: Cornwall Insight

Zero-emission road transport considerations: Tax

■ Fuel Duty ■ VED ■ CCT



Main Motoring Taxes



2030 targets



Company Car Tax rates in 2020-21

| Emissions g/km | Zero-emission miles | Appropriate percentage |
|-------------------|---------------------|------------------------|
| 1-50 | 100+ | 2% |
| 51-54 | 70-120 | 2% |
| 55-59 | 40-69 | 8% |
| 60-64 | 30-39 | 8% |
| 65-69 | 0-29 | 12% |
| 70-74 | | 14% |
| 75-79 | | 15% |
| 80-84 | | 16% |
| 85-89 | | 17% |
| 90-94 | | 18% |
| 95-99 | | 19% |
| 100-104 | | 20% |
| 105-109 | | 21% |
| 110-114 | | 22% |
| 115-119 | | 23% |
| 120-124 | | 24% |
| 125-129 | | 25% |
| 130-134 | | 26% |
| 135-139 | | 27% |
| 140-144 | | 28% |
| 145-149 | | 29% |
| 150-154 | | 30% |
| 155-159 | | 31% |
| 160-164 | | 32% |
| 165-169 | | 33% |
| 170+ | | 34% |

Diesel vehicles attract a 3-percentage point surcharge.
Source: HM Revenue & Customs

No tax policy post 2021

Zero-emission road transport considerations: 'Urban Mobility'

"**Mayor** sets 2020 timetable for London Zero Emission Zones"

"... plan to make the entire **Uber** fleet in the capital electric by 2025."

BVRLA



"**Zipcar** targets 800,000 Londoners using 9,000 shared EVs by 2025"

Panel Session

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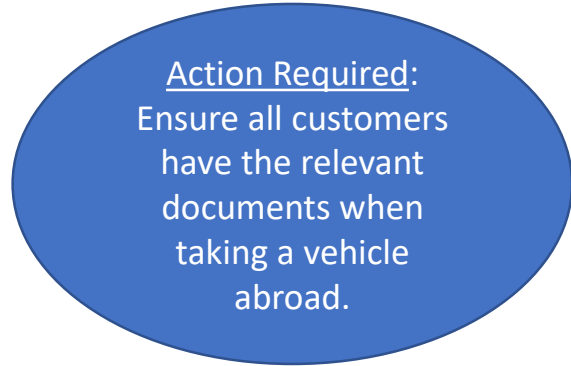
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BVRLA Update

- Ⓟ Vehicles travelling abroad and VE103
 - <https://www.gov.uk/taking-vehicles-out-of-uk/for-less-than-12-months>
 - [uk-drivers-of-rental-and-leased-vehicles-still-require-ve103-certificates.html](https://www.gov.uk/uk-drivers-of-rental-and-leased-vehicles-still-require-ve103-certificates.html)
 - [abi-issues-motor-insurance-advice-in-the-event-of-no-deal.html](https://www.abi.org.uk/abi-issues-motor-insurance-advice-in-the-event-of-no-deal.html)
- Ⓟ BVRLA IMI Accreditation and e-Learning
- Ⓟ Fair Wear and Tear
- Ⓟ WLTP
- Ⓟ Annual Dinner 2019



BVRLA



- As the trade body for the vehicle rental and leasing industry, the BVRLA provides VE103B certificates to its members. Should you need to place an order contact BVRLA Member Services Executive, [Laura Birdsey](#).

Driving Abroad

UK Driving Licences:

- From 29 March 2019, drivers from the UK will need extra documentation to drive in the EU and EEA.
- UK drivers may also need an international driving permit (IDP) to drive in the EU and EEA.



Action Required:
Communicate to customers an IDP is required to drive in the EU.

Insurance:

- A physical copy of a Green Card is required.

BVRLA IMI Technical Customer Service Accreditation

Benefits

For the individual:

Following accreditation, candidates are noticeably more motivated and engaged, demonstrate improved teamwork and evidence enhanced customer service ratings.

For the employer:

In supporting their staff in attaining this accreditation, BVRLA members enjoy better staff retention, higher customer service standards and improved work output. Staff receive written feedback which serves to appraise performance and identify opportunities for career progression.

<https://www.bvrla.co.uk/training/courses.html>



Updating the Car Fair Wear & Tear Standard

BVRLA Director of Member Services Nora Leggett is leading a review of the Fair Wear & Tear Standard for cars. She would welcome members' views on proposed amendments relating to nine areas that have been identified by the review panel as needing improvement.



The Industry Fair Wear & Tear Standard
for drivers of leased and financed cars

BVRLA
British Vehicle Rental & Leasing Association

The review panel includes representatives from ACFO, ALD Automotive, Lex Autolease, Arval, Hitachi, Tusker, VWFS, JCT 600, PSA Finance, Mercedes Benz Financial Services, LeasePlan, Avis Budget, Zenith, Wessex

Fleet, The AA, the RAC, BCA, Manheim, Hudson Kapel, VRA, RMIF. ♦

The BVRLA would like to hear the views of as many

| What needs to be addressed? | Possible solutions: |
|---|---|
| Customers are not aware of their responsibilities for maintaining the vehicle and the condition of the vehicle when returned. | <ul style="list-style-type: none"> ➤ Provide an app, more web content and advice. ➤ Provide more self-appraisal tools, eg measure tool. ➤ Provide clear and transparent communications throughout the supply chain, plain language and clear explanations about the type of contract and why we have end-of-lease charges. |
| Customers have no idea about repair costs and often dispute end-of-lease charges. | LeaseCo advises its customers how charges are derived, eg industry standards, such as Audatex, Glassmatics, Thatcham – this adds authenticity. |
| Increasing number of customer-maintained contracts means that contact with the customer can be non-existent. Customers are motivated by price. | Missed services, particularly with software downloads, can affect the vehicle's performance and the re-sale value. Customers MUST provide evidence that the vehicle has been maintained. |
| The concept of 'age and mileage' in relation to the end-of-lease standard is a difficult one. More BVRLA members are remarketing ex-lease cars. | 'Age and mileage' is already a difficult concept. We don't need separate guidelines for older vehicles but need to ensure vehicles are inspected and have a condition report before re-sale. |
| Customers may have been advised very thoroughly at the start of their contract, but they forget or don't allow sufficient time to rectify any damage as the end of lease approaches. | Leasing companies should have more frequent, structured contact with drivers throughout the lease period, explaining and anticipating issues such as end-of-lease procedures. |
| Clocking: Press reports of increased incidents of clocking fraud. | Customers must self-declare their odometer reading at return and be advised of consequences of fraud. |
| Paintwork: Small areas of chipping, including door edge chipping, are acceptable. If the areas of chipping require the entire panel, bumper or trim to be repaired or repainted, the | Greater clarity required. It was proposed to replace with "chips up to 3mm in diameter are acceptable provided they are not rusted". 8 chips for each forward-facing panel. 2 for all other panels. |

WLTP – call for action

<https://www.bvrla.co.uk/resource/bvrla-rallies-industry-response-to-vehicle-tax-consultation.html>

As the closing date looms on government's consultation Review of WLTP and vehicle taxes, the BVRLA and other leading trade bodies are making a collective call to industry to take action.

Concerned that government's continued lack of alignment of its taxation and environmental policies will result in a failure to remedy the current vehicle tax regime, the BVRLA is urging industry colleagues to [respond to the consultation](https://www.bvrla.co.uk/resource/bvrla-rallies-industry-response-to-vehicle-tax-consultation.html) which closes on 17 February.

Annual Dinner

- Members can book individual places or a table of ten, at the same cost per head.
- The ticket includes pre-dinner drinks and a 3-course dinner with wine.
- With top entertainment, delicious food and the opportunity to network with industry colleagues, the BVRLA Annual Dinner is a 'not-to-be-missed' event, attended by around 1,000 industry leaders from across the vehicle, rental, leasing and fleet sectors every year.

Committee and Projects Update

Committee Discussions (21 November 2018):

- ⓑ FCA Motor Finance Review – thematic review – now due March 2019
- ⓑ WLTP and business car taxation
- ⓑ Next TOM Committee: 27 February, Amersham
- ⓑ Next TOM Forum: 16 May, Venue TBC

Final Thoughts

- Ⓟ Thank you to PSA Group for hosting today's forum
- Ⓟ Thank you to our speakers and you for participating in today's forum
- Ⓟ **TOM Feedback & Suggestions:** Please spend a few minutes to complete the feedback survey when you receive the email
- Ⓟ **Presentations:** Fran will email the link to download these from the BVRLA website tomorrow
- Ⓟ See you next time! 16 May 2019

Technical and Operational Management Forum

7 February 2019



Hosted by



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