



EAUC Annual Conference University of Leeds 23 – 25 March 2015

CHALLENGING CONNECTIONS

Incorporating the Student Sustainability Summit, Further Education Sustainability Summit and Transformational Leadership Summit

Workshop 5: Optimising your fleet to reduce emissions, fuel bills and collisions

*Bob Saynor, Consultant, Energy Saving Trust and
Ian Featherstone, Knowledge Manager, Energy
Saving Trust*



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CarbonCredentials



EAUC Annual Conference **University of Leeds** 23 – 25 March 2015

CHALLENGING CONNECTIONS

**Optimising your fleet to
reduce emissions, fuel
bills & collisions**

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CarbonCredentials

**Estates and
Operations**



EST Transport Products & Services



**Estates and
Operations**



Consultancy

- Green Fleet Consultancy
- Plugged in Fleets
- Fleet Carbon Audit



Training

- Green Fleet Management
- Ecodriving



Information/Advice

- Webinars
- Best Practice Guides
- Fleet Briefing
- LinkedIn

**energy
saving
trust**



EST & Ecodriving



Estates and
Operations



- Ecodriving projects since 2006
- Tried various approaches: short-duration behind-the-wheel most effective
- Fleet Smarter Driving Programme



energy
saving
trust

Smarter Driving

Reduce your fuel consumption by 15%

Smarter Driving for smarter organisations

We all like to think we are good drivers. But by making some simple changes to the way we drive, we can reduce fuel consumption by around 15%.

Smarter driver training for organisations

Working with partners in the UK and Europe, we have conducted extensive research on the technical and behavioural issues associated with reducing fuel consumption. Using this knowledge, we've designed a short training course for fully trained drivers to reduce their fuel consumption and carbon emissions. The emphasis on greater awareness and anticipation also brings safety benefits and reduces vehicle wear and tear.

What is the Energy Saving Trust?

The Energy Saving Trust is the UK's leading impartial organisation helping people save energy and reduce carbon emissions. Our specialist business transport work is funded by the Department for Transport and we've helped hundreds of fleets in the UK. We're here to help you reduce your fleet's carbon emissions and, importantly, cut your costs.

To find out more, call one 0845 602 1425 or email smarterdriving@est.org.uk

energy saving trust

1. Based on national fleet fuel consumption data. Actual results may vary. See www.est.org.uk for more information.

EST Smarter Driving Programme



Estates and
Operations



2009-2014 EST trained approx. 40,000 drivers
from 500 organisations



Microsoft®



Ecodriving Benefits

Magic triangle



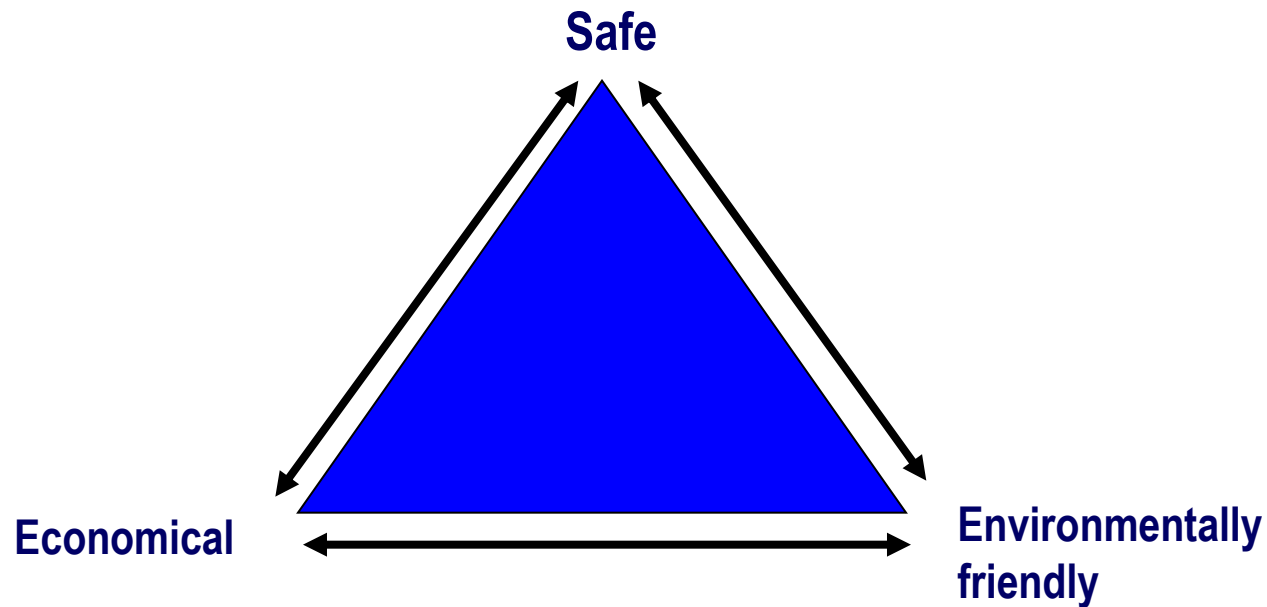
Estates and
Operations



Identical behavioural patterns



Deutscher
Verkehrssicherheitsrat e.V.



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Fuel & CO2 Savings



**Estates and
Operations**



- 13.5% av. improvement on the day (EST)
- 3.0% to 6.2% long term (EST & DVR, Germany)
- Savings on tyres, clutches, brakes



- Real-life savings depend on management
 - How fuel is reimbursed
 - League tables
 - Incentives
 - Information & refresher training
 - Complimentary technology

EST Ecodriving Scheme

EST Ecodriving Scheme



Estates and
Operations



- Subsidised training available from training suppliers
 - 17 driver training companies inc. AA DriveTech; IAM; Automotional; DriveSense
 - 50+ independent Fleet Trainers
- Scope
 - England only
 - Vehicles up to 3.5 tonnes
 - Any drivers booked by organisations
- EST pays training suppliers £25 per driver



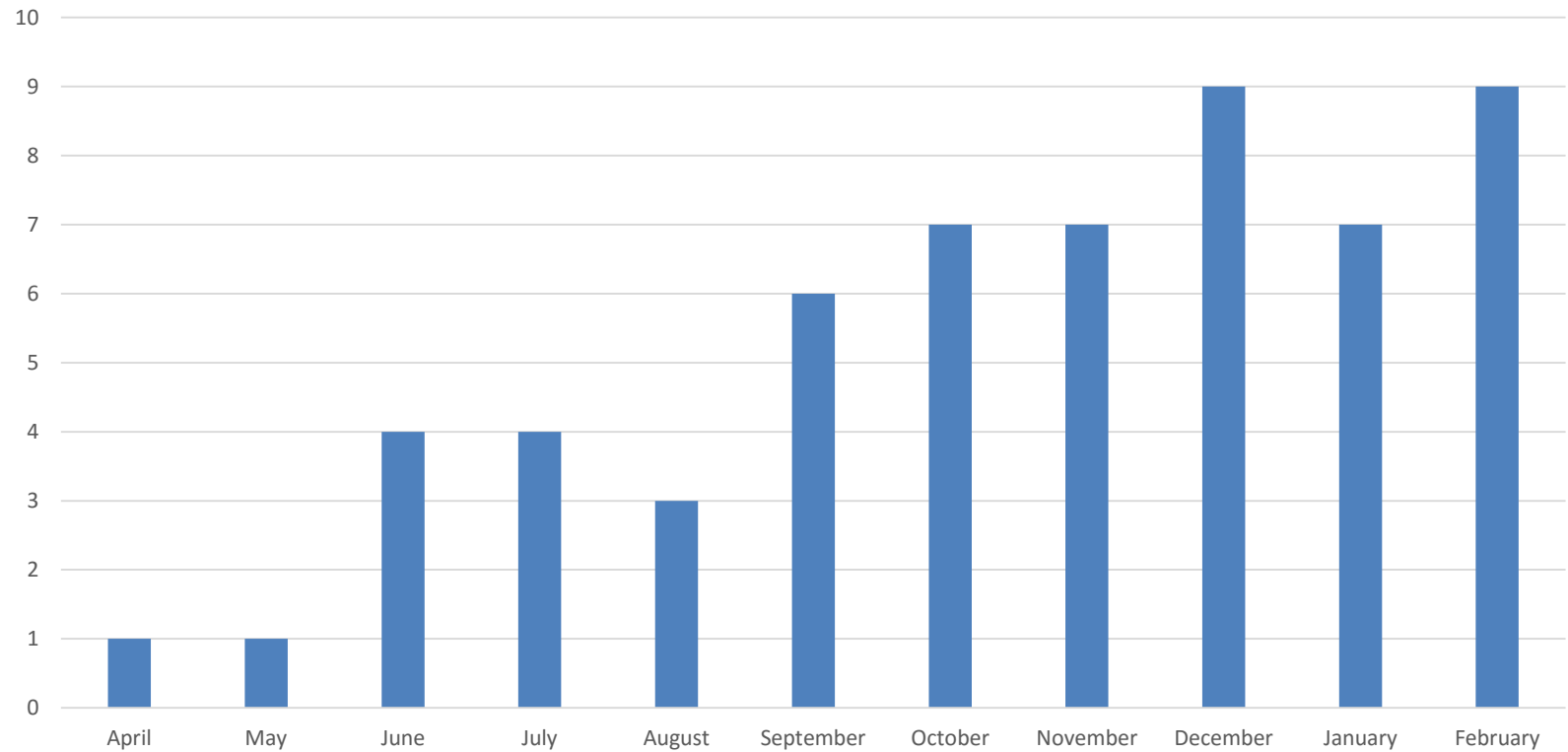
Gaining Momentum..



**Estates and
Operations**



Driver Training Companies Delivering Training



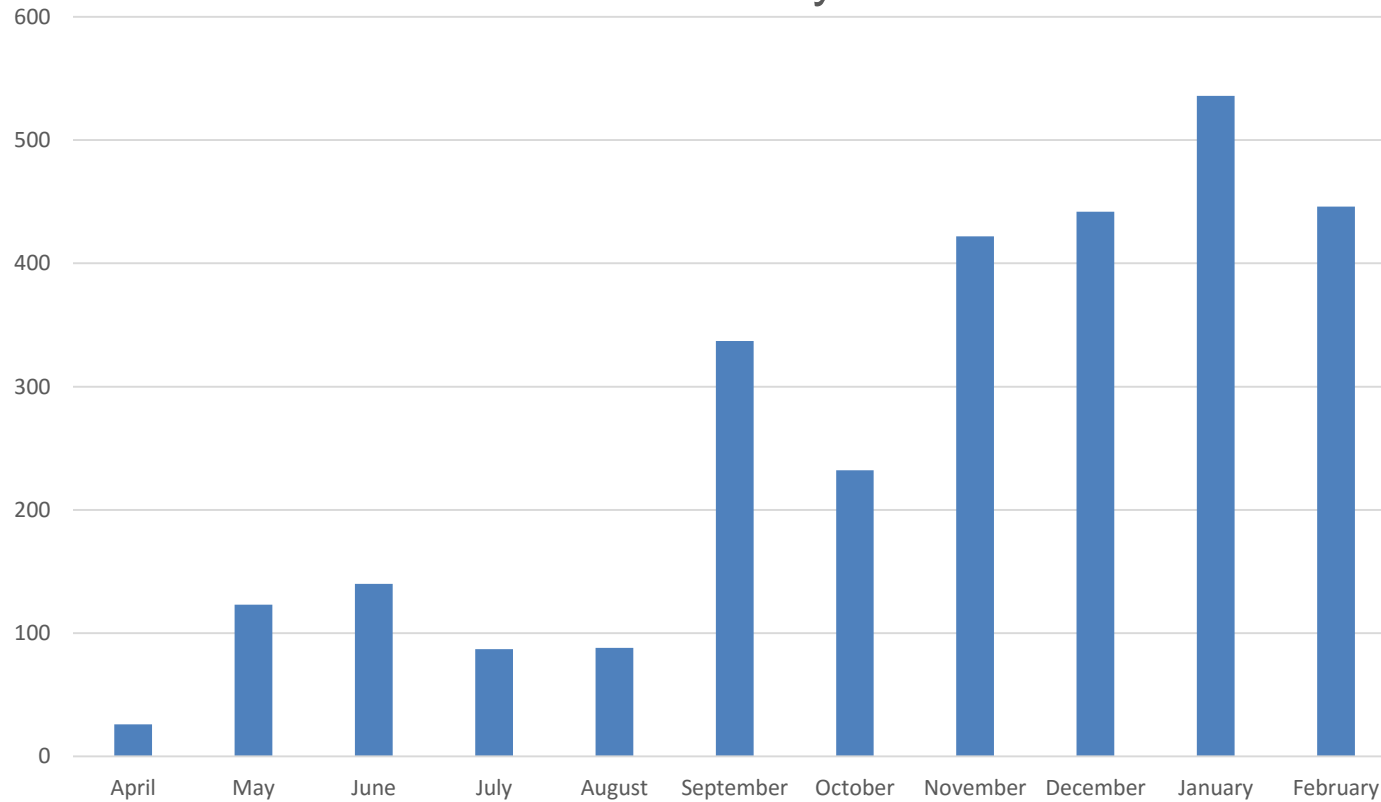
Gaining Momentum..



**Estates and
Operations**



Drivers Trained by Month



EST Ecodriving Scheme (2)



Estates and
Operations



- Diversity in format & price of training
- Funding for 10,000 drivers 2015/16
- Short duration **or** longer incorporating ecodriving
- www.energysavingtrust.org.uk/businesses/ecodriving

Green Fleet Consultancy



- Carbon Footprint
- Mileage Management
- Fuel Management
- Grey Fleet
- Whole Life Costs
- Vehicle Choice



**Client led delivery - we do what is
needed**

Available for organisations with sub-3.5t
fleets typically

energy saving
trust
10 – 200 vehicles



Over 84,000 vehicles were
covered in the reviews

25 GFR Clients
subsequently had a PIFI
(representing 20% of PIFIs)

88 GFRs

A potential £15.25M of
cost savings were
identified

A potential 20,000 tonnes
of CO₂ saved

Plugged-in Fleets Initiative

Plugged-in Fleets Initiative



**Estates and
Operations**



Project Aim

- Fleet adoption



Methodology

- Senior stakeholder buy-in
- Whole life cost & carbon analysis PIV vs ICE
- Drive cycle
- Infrastructure advice
- Overcome objections/barriers
- Report with clear recommendations

Outcome

- 1,422 vehicles identified where a business case exists
- 1,300 viable pool cars
- 61% have or intend to adopt PIVs

Plugged-in Fleets Initiative



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Range (and range
anxiety)

Payload

**...but there are
challenges...**

Electricity supply
at base

Vehicles taken
home (small vans)

Top Banana



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- Driving c. 60 miles per day
- Saving **£3,000** per year vs. diesel Kangoo (WLC)
- Zero emission deliveries USP for business



Taking Plugged-in Fleets Initiative to the next stage (PiFI Plus)

Vehicles

Choice & suitability

Demonstrators

Funding

Specialist vehicles- eg refrigerated vans





Infrastructure

Types of charger, numbers & locations

Rapid charging

Fleet management

Replacement cycles

User chooser choice lists

Driver familiarisation & Training

Information & Advice



Webinars

20-30 minutes on fleet management topic

Best Practice Guides

Concise “get started” guidance

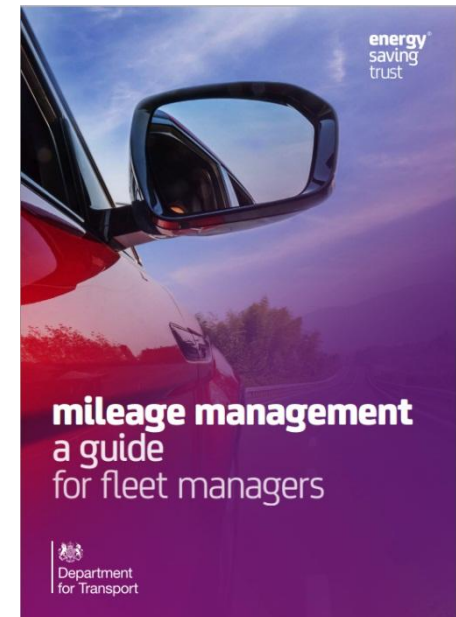
Fleet Briefing

Monthly e-newsletter

Green Fleet Management Training

Vehicle supply chain

Includes introduction to plug-in vehicles



Projects

Projects- Rapid charging



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Increase effective
range and alleviate
range anxiety

Right-size battery;
reduce impact on
payload



Base / depot
charging not critical

Overnight charging
not critical

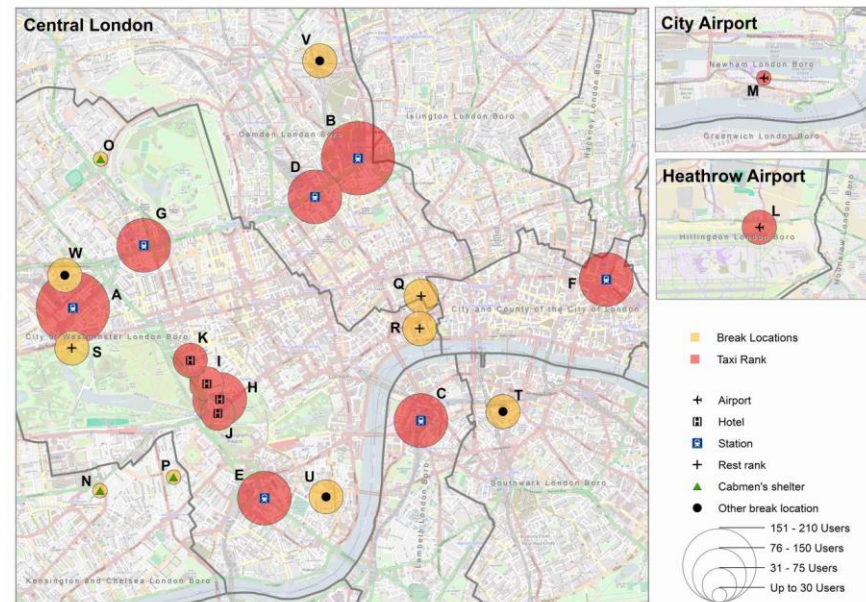
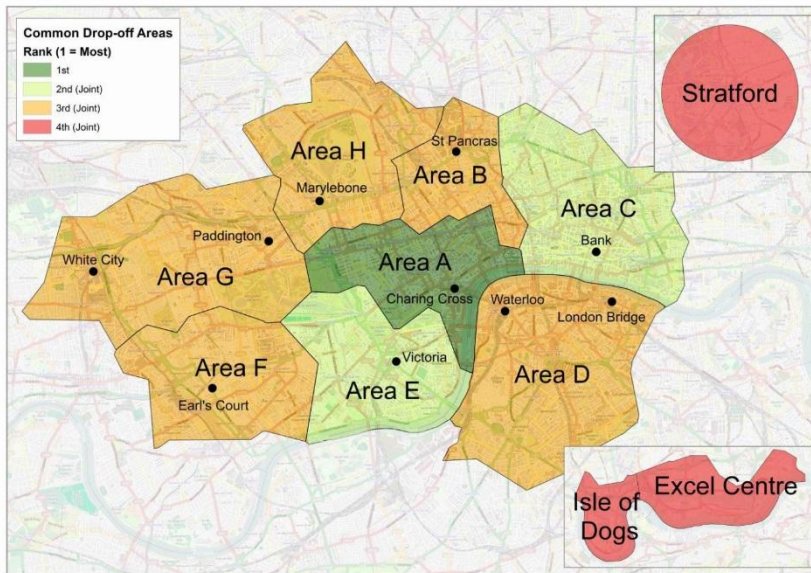
Projects - Taxis



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Operations



TfL rapid charge feasibility study





Rapid Chargepoint Mapping

- EST & TfL rapid chargepoint mapping project
- Commercial vehicles
up to 12.5 tonnes
- Analyse telematics data
- Map locations for RCPs
- Combine data from 25
fleets



Projects –commercial vehicles



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