

PS+ev

Battery Enhancement Case Study

The future of efficient, economical and safer driving of electric vehicles

At a glance

With the Government announcement in November 2020 that they were ending the sale of new petrol and diesel cars in the UK by 2030, many organisations have already switched to a greener way of transport. In fact, demand for new electric vans grew by 26.2% last year. As with many new initiatives, change presents both opportunities and challenges.

"Transitioning over to an EV Fleet is something that has always been on our agenda, as we are running a fleet of 30 vehicles it is important for us to choose the right supplier for our needs. Whilst testing the Mercedes eVito with and without the PS+EV Battery Enhancement we were pleased to find such great short term results! With a huge 17% increase we were over moon that we were able to get more drops and have less downtime on the vehicles. Long term the wear and tear on the vehicles will be reduced as all driving styles can change due to this, which is such a great cost saving for our business."



THE FINDINGS

12%

increase in the battery range when fitted with the PS±EV device, which would give approximately 20 extra miles over the daily run.



17-20%

Increase based on the above going to 100% charge

What they found on the journey was that the miles that were being used were slower going down compared to the % of battery level and this did not change when the driver changed.

The Eco Save Electric Vehicle Device is an economical, safer and greener way to drive. It's available for a variety of different vehicles including the Nissan e-NV200, the LDV Maxus, the Mercedes eVITO & eSprinter and MAN & VW and with potential integration to Fleet Management Systems too.

CHALLENGES



The use of electric vehicles brings a set of new challenges that organisations will have to learn to deal with. One of the most important concerns quite rightly is safety, particularly in respect of reversing, as the lack of engine noise means a reversing vehicle is often unheard. Other issues are inevitably battery use and getting the maximum efficiency out of each charge.

THE TRIAL



Eden Tyres & Servicing is a family run business that has been keeping their customers safe on the roads since 1981. Keen to look at solutions to the challenges of using electric vehicles they agreed to work with Parksafes on a trial of their PS±EV Eco Save Electric Vehicle Device.

In the trial a brand new Mercedes eVito 2021 was sent out on a daily route of approximately 68 miles. The same route was taken each day and it covered a number of stops and starts to deliver tyres.

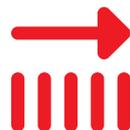
On days 1 and 2 the standard vehicle was used and on days 3 and 4 the vehicle had the PS±EV Eco Save device fitted. We changed the driver each day and consistency of kw/mile increased.

THE BENEFITS



Safety

intelligent regulation of accelerator performance combined with a speed limiter (reverse speed to 5mph and forward speed to 78mph) means increased safety as aggressive acceleration and excessive speeds are prevented. This improved driver behaviour and reductions in speeding offences, which in turn increases safety for drivers and other road users too.



Consistency

The PSEV product keeps consistency between every driver that drives the vehicles or fleet. This will allow the maximum level of miles available from the vehicle with no concern of who is driving.



Flexibility

The software on the PS+EV product can be set according to the needs of the, customer and environment. For example, if the vehicle is used up and down hills with a heavy load you will require extra power.



Financial savings

There are substantial savings on maintenance costs and reduced vehicle wear and tear by eliminating over acceleration



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