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Clean Vehicles Partnership

Ferrovial Agroman Heathrow CVP Case Study



Investing in electric vehicle technology

Ferrovial Agroman is working on Heathrow's Q6 project to upgrade areas of the airport to improve passenger experience. Ferrovial, a leading construction company operating across the UK and Ireland, has made a substantial investment in low emissions technology – including upgrading to electric vehicles within its fleet. In 2017, the company received the Clean Vehicles Partnership (CVP) Improver Award in recognition of its commitment to reducing emissions at Heathrow Airport.

Here, Ferrovial Agroman explains what inspired the effort to reduce emissions and how being part of CVP helped the company to achieve its sustainability ambitions.





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What was the project about?

Within the construction industry the use of vehicles for transportation is vital to ensure operations run efficiently. As a result, 95% of our direct carbon emissions is accountable in our consumption of diesel.

In 2017, Ferrovial consumed on average 2,000 litres of diesel and 250 litres of fuel per month through journeys in and around Heathrow. With the growing interest surrounding electric cars, along with Heathrow introducing charging points across the airport, transitioning to electric vehicles made environmental and financial sense.

What inspired you to do it?

The primary reason for the transition is to reduce Ferrovial's carbon emissions. Heathrow Airport has set a target in its Sustainability 2.0 plan that 100% of airside plants must meet Euro Standard 6 Stage 5 by 2025, which Ferrovial aims to mirror and deliver ahead of target.

Since January 2018, we have used Nissan e-NV200 electric vehicles on airside projects. One single charge provides a range of 80 miles, so with the vans averaging 20 miles per day only 1 to 2 charges are needed each week.

To calculate accurate greenhouse gas (GHG) figures and eliminate idle time and driving, Ferrovial is using Smart Asset Manager (Telematics System). Drivers are also trained to drive more safely and economically, further decreasing GHG emissions.



Ferrovial Agroman has invested in using asset management technology to accurately monitor its emissions and encourage safer and more efficient driving.





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We are also using SmartWaste Software to measure fuel consumption. The system provides comprehensive monitoring, reporting and targeting of a site's environmental and CO₂ impacts, based on standard UK Government conversion factors. This has enabled us to closely monitor performance and demonstrate success in reducing emissions.

How did the CVP help you to achieve your targets?

Participating in the CVP has helped us better understand Heathrow's sustainability strategy and align our project commitments to support these targets.

We attended several CVP workshops where best practice in sustainable fleet management was promoted. CVP facilitates collaborative working and supports the sharing of information amongst Heathrow fleet operators.

Ferrovial won the CVP Improver Award in recognition of its investment in electric vehicles, as well as its work using driver training and telematics to reduce emissions from conventionally fueled vehicles. This training was provided to all employees to help them reduce emissions while commuting. We have also introduced car sharing and discouraged single-occupancy car use.

The CVP Awards provided an excellent opportunity to find out more about leading-edge technology and best practice at the airport. We also had the opportunity to showcase Ferrovial's achievements to the CVP community.



Since January 2018 Ferrovial Agroman has been using four Nissan e-NV200 electric vehicles on airside projects.





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What were the benefits to your business?

The three main benefits have been carbon reductions, capital efficiency savings and increased employee awareness.

We have calculated that it costs on average 2.5p per litre to power vans on electricity, whereas a diesel van costs 8.92p per litre. As we increasingly convert to electric vehicles we expect to see our savings increase.

Ferrovial has invested a lot of time to ensure that employees are aware of the changes and that these are reflected in daily operations. During 2017 many events, workshops and training courses took place to communicate and share good practice, improve vehicle performance and to educate Ferrovial drivers.

Using electric vehicles has helped to demonstrate our commitment to energy reduction and the compliance with Ferrovial's energy management system, certified by the ISO 50001. Ferrovial is committed to reducing emission wherever possible and following in Heathrow's footsteps of striving for even greater sustainability targets.

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To find out how to join the Clean Vehicles Partnership and receive free support on how to reduce emissions and secure sustainable growth, contact heathrow_cvp@ricardo.com

CVP is delivered by Ricardo on behalf of Heathrow Airport Limited to support the sustainability goals outlined in Heathrow 2.0.



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Making every journey better