

## ZERO EMISSIONS LOCAL DELIVERIES IN IRISH CITIES

*An Post ambition is to be the greenest postal service in Europe supported by its ISO 50001 certified energy performance management system and are aiming to achieve zero-emission postal deliveries around the country. By the end of 2020, they replaced 450 vehicles with EVs and acquired Ireland's first two 7.5 Tonne Canter EVs. Electric vans show energy savings of 63% and fuel cost savings of 47%. All An Post drivers are receiving Eco-Driving training to ensure best-practice driving in all vehicles and for all road and weather conditions. – John Smith Sustainability Infrastructure and Facilities Manager An Post*

An Post is the national postal service operator for Ireland delivering parcels and letters to every home and business address in the country. An Post employs 8,900 people, operating a retail and mails network nationwide, with headquarters in the iconic GPO, Dublin.

Every working day, An Post, process and deliver 2 million items of mail using a road fleet of over 2,800 vehicles and 1,600 bicycles. In 2018, An post consumed 118,873,391kWh and emitted 30,587,307 kgCO<sub>2</sub> (down from 31,746,719 kgCO<sub>2</sub> in 2018), with 16,706,428kWh offset in renewable electricity (zero emissions).

An Post<sup>1</sup>, has replaced its diesel local delivery vehicles in all 6 Irish cities (Dublin, Kilkenny, Waterford, Cork Limerick and Galway) with electric vehicles; effectively delivering zero emissions local parcels and ecommerce services in 2020. In line with its commitment to the UN Sustainable Development Goals (SDG)<sup>2</sup>.

An Post has set itself the goal to be the greenest postal service in Europe by 2030 using its ISO50001 certified energy performance management system as a structured approach to achieve this; An Post were the first postal service worldwide to have ISO50001 certification cover its entire operations i.e. buildings and transport fleet.



A further goal is to extend the use of electric vehicles to one third of its local delivery fleet, from diesel to electric within the next 4 years.

*"I love driving the new electric vehicle, its transmission is smooth and it is good for the environment as well" -Barney Cronin Ravensdale DSU*

### SAVINGS

To the end of Q3'20 An Post have measured and verified savings from small vans (raw data<sup>3</sup>), this comprises data from 286 vehicles in daily use compared to equivalent diesel vehicles. The Electric Vans use 2.89L[e]/100km vs diesel 9.63L/100km, avoiding CO<sub>2</sub>e emissions of 196tonne to Q3'20.

### DATA SOURCES

Diesel use in Litres is sourced from forecourt fuel pumps calibrated annually; electricity is from MID (Measuring Instrument Directive) compliant meters on chargers i.e. it includes charging losses, vehicle heater use etc. checked against sub-metered usage at electrical panels.

### OTHER BENEFITS

At urban service depots, electric vehicles reduce noise for neighbours and residents, whilst lower service and maintenance costs (oils, tyres, brakes etc.) reduce costs and payback time to fleet operations.

By the end of 2020 An Post will have 500 electric vehicles to support the Christmas rush and Black Friday online shopping. With the balance of the 1,000 total to be delivered as they become available through Q1'2021.

### AN POST ECODRIVING

In July 2019 An Post in-house driving school developed an in-house Ecodriving program for diesel and electric vans showing savings across both types; *"The eco driving course was excellent and I hope to transfer what I learnt to driving style, and saving on my own fuel usage"* - Eamon Keogh Mullingar

### <sup>1</sup> Fast facts on An Post

<http://www.anpost.ie/AnPost/MainContent/About+An+Post/An+Post+at+a+glance/>

<sup>2</sup> For more information on **An Post and its commitment to the UN Sustainable Development Goals** see <http://www.anpost.ie/AnPost/MainContent/About+An+Post/Sustainability+at+An+Post.htm>

An Post has committed itself to Goal 3 Decent Work, Goal 4 Responsible Production & Consumption and Goal 5 Partnership and Innovation.

<sup>3</sup> **Raw data – total data** shows higher savings again but based on average not median performance.

From An Post-Live YoY-Results	Fuel Litres	Distance Km	L/100K m	Energy Saving	gCO2/Km	CO2 saving	kg CO2e Avoided
<i>C&amp;D Total 2019</i>	<i>6,042,665</i>	<i>62,744,836</i>	<i>9.63</i>		<i>253</i>		
<i>EV's 2019</i>	<i>16,675</i>	<i>470,519</i>	<i>3.54</i>	<i>63.2%</i>	<i>117</i>	<i>53.7%</i>	<i>64,151</i>
<b>C&amp;D Total 2020</b>	<b>4,575,934</b>	<b>49,560,320</b>	<b>9.23</b>		<b>243</b>		
<b>EV's 2020</b>	<b>38,407</b>	<b>1,329,719</b>	<b>2.89</b>	<b>68.7%</b>	<b>96</b>	<b>60.6%</b>	<b>196,158</b>
<b>Notes</b>							
<b>EV's figures include generation and grid losses excluded from diesel</b>							
<b>2020 EV gCO2/km uses 2019 national grid factor, actual 2020 grid factor will be lower again</b>							