

# The WLTP Consumer Information Guide

Helping manufacturers present the new WLTP and NEDC-equivalent figures to new car buyers

**Version 1.0**

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# Recommendations for manufacturers on presenting fuel consumption, energy consumption, electric range and CO<sub>2</sub> emissions information to new car buyers.

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## Introduction

Outlined in this note is a set of recommendations for manufacturers on the presentation of WLTP and NEDC data in consumer information from September 2018 and January 2019. This is supplementary to the VCA regulation implementation guidance.

The information channels covered in this note are websites, car labels and posters at the showroom, printed brochures, including price lists which feature vehicle specifications, and adverts. The objective is to provide consistency and transparency in data presentation, avoid confusion for the consumer and ensure that appropriate and meaningful comparisons can be made between different car makes and models.

### Recommendations 1<sup>st</sup> September to 31<sup>st</sup> December 2018

- NEDC/NEDC-equivalent fuel consumption and CO<sub>2</sub> emission figures must be presented on car labels, brochures, adverts and posters until Dec 31<sup>st</sup> 2018.
- In the case of PHEV, the legal requirement is for weighted fuel consumption (NEDC) to be used. It is recommended the weighted combined electricity consumption (NEDC) must also be presented alongside since weighted data must be read together.
- Manufacturer websites should present NEDC/NEDC-equivalent figures to ensure consistency with printed promotional materials, car labels and poster information at the showroom.
- Manufacturers should avoid presenting WLTP and NEDC/NEDC-equivalent figures side by side. If manufacturers wish to present WLTP figures, these should be shown on a separate website or area of the website.
- Manufacturers should identify the official test cycle (NEDC or WLTP) associated with fuel/energy consumption, electric range and CO<sub>2</sub> emissions presented in different information channels.
- Manufacturers should make it explicitly clear that NEDC-equivalent figures for CO<sub>2</sub> and MPG, are derived from WLTP. A short explanation or reference / link to the VCA website is advocated for use in brochures, adverts and websites.
- Manufacturers are encouraged to inform consumers of the impact of optional equipment on fuel and energy consumption, electric range and CO<sub>2</sub> emissions in promotional literature and on their websites.
- Manufacturers should make use of digital media at showrooms to help explain the information presented on the car labels; especially useful for electric vehicles.

## Recommendations from 1<sup>st</sup> January 2019

Tables 1-4 present the minimum WLTP and NEDC data that manufacturers are recommended to present in different information channels.

The following recommendations are specifically for plug-in hybrid (PHEV), range extender (REEV), hydrogen fuel cell (FCEV) and battery electric car (BEV) models.

### Plug-in hybrid and range extender cars:

- Energy consumption figures should be clearly presented as ‘weighted’ combined. (This measurement is different to the combined energy consumption figure associated with battery electric vehicles). Where the figure is weighted it must be indicated as such.
- It should be made clear that PHEV/REEV are associated with an ‘equivalent’ all electric and city range figures. A footnote can be used to define these figures.
- Where available, manufacturers are encouraged to present consumers with ‘charge sustaining (engine operation)’ and ‘charge depleting (battery operation)’ fuel and energy consumption figures to demonstrate PHEV/REEVs operating in engine-only and battery-only driving modes. Consistent and meaningful terminology should be used. The most appropriate source of this data is manufacturer websites.
- Weighted combined MPG should be presented with weighted combined energy consumption figures to help consumers understand that both figures will influence the running cost of the vehicle.

### Battery electric cars:

- It should be made clear that battery electric cars are associated with an all-electric and city range.

### Hydrogen fuel cell electric cars:

- For FCEVs fuel consumption should be presented as the combined hydrogen consumption in kg and range should be referred to as zero emission range.

## Recommendations from 6<sup>th</sup> April 2020

- WLTP combined CO<sub>2</sub> emission figures shall replace the NEDC/NEDC<sub>eq</sub> figure in all manufacturer consumer information channels.
- Manufacturers should be aware that from April 2020 new car labels will be re-designed. New guidance will be prepared to outline the amendments.

Table 1 - Diesel, petrol, hybrid cars from 1<sup>st</sup> January 2019

<b>Car Label (specific to car on display in the showroom)</b>		
NEDC Equivalent	Combined CO <sub>2</sub> emissions	g/km
WLTP	Low	Fuel consumption
	Medium	Fuel consumption
	High	Fuel consumption
	Extra High	Fuel consumption
	Combined	Fuel consumption
I/100km & MPG		
<i>Voluntary section of the label</i>		
Annual fuel cost		£
1 <sup>st</sup> Year and Standard Yr VED		£
Euro Standard : Diesel Surcharge : AFID* Fuel Identifier :		Euro 6d (temp) /Euro 6 Y/N B7 /E10/E5 as appropriate
<b>Poster (specific to range of car models available)</b>		
NEDC Equivalent	Combined CO <sub>2</sub> emissions: Highest to lowest	g/km
WLTP	Combined fuel consumption Highest to lowest/lowest to highest	I/100km & MPG
<b>Printed brochures including price lists which include vehicle specifications (Car model including optional equipment)</b>		
NEDC Equivalent	Combined CO <sub>2</sub> emissions Highest to lowest	g/km
WLTP	Combined fuel consumption Highest to lowest	I/100km & MPG
<b>Advert (specific to car model or model range including optional equipment) Where an advert relates to a single car model, data specific to that vehicle should be presented</b>		
NEDC Equivalent	Combined CO <sub>2</sub> emissions Highest to lowest	g/km
WLTP	Combined fuel consumption Highest to lowest	I/100km & MPG
<b>Manufacturers website -- Voluntary Information not specified by labelling regulations</b>		
<b>Promotional pages (car model including optional equipment)</b>		
NEDC Equivalent	Combined CO <sub>2</sub> emissions Highest to lowest	g/km
WLTP	Combined fuel consumption Lowest to highest	MPG
	Cycle specific WLTP fuel consumption should be presented to consumers reviewing specific cars and must be readily accessible on a website and not require a full vehicle configuration. This could be via a digital brochure or in a separate technical specification area of the website.  Car configurators should present vehicle-specific NEDC-equivalent CO <sub>2</sub> emission and WLTP fuel consumption figures.	

\*AFID - Alternative Fuel Infrastructure Directive

Table 2 - Plug-in hybrid and range extender cars from 1<sup>st</sup> January 2019

<b>Car Label (specific to car on display in the showroom)</b>		
NEDC Equivalent	Weighted combined CO <sub>2</sub> emissions	g/km
WLTP	Low	N/A
	Medium	N/A
	High	N/A
	Extra High	N/A
	Combined	Weighted combined fuel consumption
<i>Voluntary section of the label</i>		
WLTP	Weighted combined energy consumption	m/kwh
	Weighted combined fuel consumption	MPG
	Equivalent all electric range	Miles
Annual fuel, & electricity costs and total cost		£
1 <sup>st</sup> Year and Standard Yr VED		£
Euro Standard Diesel Surcharge AFID Fuel Identifier		Euro 6d (temp) /Euro 6d Y/N B7/ E10/E5 as appropriate
<b>Poster (specific to range of car models available)</b>		
NEDC Equivalent	Weighted combined CO <sub>2</sub> emissions Highest to lowest	g/km
WLTP	Weighted combined fuel consumption Highest to lowest/lowest to highest	l/100km & MPG
	Weighted combined energy consumption Lowest to highest	Miles
	Equivalent all electric range Lowest to highest	
<b>Printed brochures including price lists which feature vehicle specifications (Car model including optional equipment)</b>		
NEDC Equivalent	Weighted combined CO <sub>2</sub> emissions Highest to Lowest	g/km
WLTP	Weighted combined fuel consumption Highest to Lowest/Lowest to Highest	l/100km & MPG
	Weighted combined energy consumption Highest to Lowest	m/kwh
	Equivalent all electric range Lowest to highest	Miles
	Equivalent city electric range Lowest to highest	Miles

<b>Advert (specific to car model or model range including optional equipment)</b>		
<i>Where an advert relates to a single car model, data specific to that vehicle should be presented</i>		
NEDC Equivalent	Weighted Combined CO <sub>2</sub> emissions Highest to lowest	g/km
WLTP	Weighted Combined fuel consumption Highest to lowest /lowest to highest	l/100km & MPG
	Weighted combined energy consumption Lowest to highest	miles/kwh
	Equivalent all electric range Lowest to highest	miles
<b>Manufacturers website – Voluntary Information not specified by labelling regulations</b>		
<b>Promotional pages (car model including optional equipment)</b>		
NEDC Equivalent	Weighted Combined CO <sub>2</sub> emissions Highest to Lowest	g/km
WLTP	Weighted combined fuel consumption Highest to lowest/lowest to highest	l/100km & MPG
	Weighted combined energy consumption Lowest to Highest	m/kwh
	Equivalent all-electric range Lowest to highest	miles
	Equivalent city electric range Lowest to highest	
	<p>Cycle-specific WLTP fuel and energy consumption figures should be presented to consumers reviewing specific cars and must be readily accessible on a website and not require a full vehicle configuration. This could be via a digital brochure or in a separate technical specification area of the website.</p> <p>Car configurators should present vehicle specific NEDC-equivalent CO<sub>2</sub> emission and WLTP energy/fuel and electric range figures.</p>	

\* Assumes plug-in hybrid and range extender cars are externally charged.



Table 3 - Battery electric cars from 1<sup>st</sup> January 2019

<b>Car Label (specific to car on display in the showroom)</b>		
NEDC Equivalent	Combined CO <sub>2</sub> emissions	g/km
WLTP	Low	N/A
	Medium	N/A
	High	N/A
	Extra High	N/A
	Combined	N/A
<i>Voluntary Section of the label</i>		
WLTP	Combined energy consumption	m/kwh
	All electric range	Miles
Annual electricity cost		£
1 <sup>st</sup> Year and Standard Yr VED		£
AFID Fuel Identifier		When released
<b>Poster (specific to range of car models available)</b>		
NEDC Equivalent	Combined CO <sub>2</sub> emissions	g/km
WLTP	Combined energy consumption Lowest to highest	l/100km & MPG
	All electric range	Miles
<b>Printed Brochures (Car model including optional equipment)</b>		
NEDC Equivalent	Combined CO <sub>2</sub> emissions	g/km
WLTP	Combined energy consumption Lowest to highest	l/100km & MPG
	All electric range Lowest to highest	Miles
	All city electric range Lowest to highest	Miles


<b>Advert (specific to car model or model range including optional equipment)</b>		
<i>Where an advert relates to a single car model, data specific to that vehicle should be presented</i>		
NEDC Equivalent	Combined CO <sub>2</sub> emissions Highest to lowest	g/km
WLTP	Combined energy consumption Lowest to highest	l/100km & MPG
	All electric range Lowest to highest	Miles
<b>Manufacturers website</b>		
<b>Promotional pages (car model including optional equipment)</b>		
NEDC Equivalent	Combined CO <sub>2</sub> emissions	g/km
WLTP	Combined energy consumption Lowest to highest	l/100km & MPG
	All electric range Lowest to highest	miles
	All city electric range Lowest to highest	
Car configurators should present vehicle specific NEDC-equivalent CO <sub>2</sub> emission and WLTP energy consumption figures plus all electric and city range figures.		

Table 4 – Hydrogen fuel cell cars from 1<sup>st</sup> January 2019

<b>Car Label (specific to car on display in the showroom)</b>		
NEDC Equivalent	Combined CO <sub>2</sub> emissions	g/km
WLTP	Low	N/A
	Medium	N/A
	High	N/A
	Extra High	N/A
	Combined	N/A
<i>Voluntary Section of the label</i>		
Combined fuel consumption		kg/100km & m/kg
Zero emission range		Miles
Annual fuel cost		£
1 <sup>st</sup> Year and Standard Yr VED		£
Euro Standard		Euro 6d (temp) /Euro 6d
Diesel Surcharge		Y/N
AFID Fuel Identifier		When released
<b>Poster (specific to range of car models available)</b>		
NEDC Equivalent	Combined CO <sub>2</sub> emissions Highest to lowest	g/km
WLTP	Fuel consumption Highest to lowest/lowest to highest	kg/100km & miles/kg
<b>Brochures (Car model including optional equipment)</b>		
NEDC Equivalent	Combined CO <sub>2</sub> emissions Highest to lowest	g/km
WLTP	Fuel consumption Highest to lowest/lowest to highest	kg/100km & miles/kg
	Zero emission range Lowest to highest	Miles
<b>Advert (specific to car model or model range including optional equipment) Where an advert relates to a single car model, data specific to that vehicle should be presented.</b>		
NEDC Equivalent	Combined CO <sub>2</sub> emissions Highest to lowest	g/km
WLTP	Fuel consumption Highest to lowest	kg/100km & m/kg
	Zero emission range Lowest to highest	Miles
<b>Manufacturers website</b>		
<b>Promotional pages (car model including optional equipment)</b>		
NEDC Equivalent	Combined CO <sub>2</sub> emissions Highest to lowest	g/km
WLTP	Combined fuel consumption Lowest to highest	kg/100km & miles/kg
	Zero emission range Lowest to highest	Miles
Car configurators should present vehicle specific NEDC-equivalent CO <sub>2</sub> emission and WLTP fuel consumption and zero emission range figures.		



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