

When should the future begin? Press ad 25 November 2018. Claim substantiation.

Smart Meters have potential to save 29.7 million tonnes of CO₂ by 2030

Supporting Evidence

The Smart Meter Rollout Cost-Benefit Analysis¹, published by The Department for Business, Energy and Industrial Strategy projected that the smart meter rollout would save 10.02 million tonnes of traded CO₂ emissions and 19.65 million tonnes of non-traded CO₂ emissions by 2030. The total of which is 29.7 million tonnes of CO₂ emissions.

If we all get a smart meter, the CO₂ saved would be like taking over 600,000 cars of the road

Summary

- 19.65 million tonnes of CO₂ emissions (non-traded) will be saved as a result of the smart meter rollout by 2030
- this is the equivalent to taking over 600,000 cars off Britain's roads by 2030

Supporting evidence

Carbon savings from the smart meter rollout

Government's *Smart meter roll-out cost benefit analysis* indicates a saving of 19.65 million tonnes of CO₂ (non-traded) as a result of the smart meter rollout by 2030²

What do these carbon savings equate to in terms of cars on the road?

Carbon emissions by cars

The total life cycles CO₂ emissions for an average mid-sized petrol internal combustion engine vehicle (ICEV) purchased in 2020 will be 28.7 tonnes per vehicle.³

We've used the above figure as vehicles from 2020 are likely to be the majority of cars on the road or reaching the end of their life by 2030⁴, when the expected smart meter savings are reached.⁵

¹ The Smart Meter Rollout Cost-Benefit Analysis. August 2016. Page 2
https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/567167/OFFSEN_2016_smart_meters_cost-benefit-update_Part_I_FINAL_VERSION.PDF

² Smart Meter Impact Assessment, November 2016, page 2.

<https://smartenergygb.box.com/s/mu78vstafpgllz28hkn16oy75krajb9>

³ Life Cycle CO₂e Assessment of Low Carbon Cars 2020 – 2030, For the Low Carbon Vehicle Partnership, PE International – Experts in Sustainability. 2013. Page 27

<https://smartenergygb.box.com/s/bb2j6y2bmnxazmuq4h7c2a1kwvdaua6>

⁴ Vehicle Licensing Statistics: Annual 2017, Average age of petrol cars on the road is currently 8.1 years. Page 13

Calculations

19.65 million (tonnes of CO₂ saved by 2030 if everyone has a smart meter) divided by 28.7 (tonnes per vehicle) = 684,668.98 (equivalent number of cars taken off the road)

Millions of households are benefitting from a smart meter.

Supporting evidence

Number of smart meter installs

As per the latest installation figures The Department of Business, Energy and Industrial Strategy, published in August 2018, there are now over 12 million⁶ smart and advanced meters operating across homes and businesses in Great Britain

Eight in ten people have taken steps to reduce their energy use and around three quarters would recommend one today.

Supporting evidence

Reduction of energy usage

Smart Energy Outlook⁷, the largest independent barometer of national public opinion on energy and smart meters in Britain, with a sample size of almost 10,000 people showed that 81% of smart meter households (or eight in 10) are taking at least one step to reduce their energy use.

Smart meter recommendations

Smart Energy Outlook also showed that 71% of smart meter owners would recommend them to others.

With the demand for electricity in the UK expected to rise by around a fifth between 2015 and 2035, our cities will need more and more energy.

Supporting Evidence

https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/716075/vehicle-licensing-statistics-2017-revised.pdf

⁵ Smart Meter Impact Assessment, November 2016. page 2

<https://smartenergygb.box.com/s/mu78vstafpgllz28hkn16oy75krajb9>

⁶Department of Business, Energy and Industrial Strategy (BEIS), Smart Meters, Quarterly Report to end June 2018. Number of smart meters operating across homes and businesses in Great Britain. Page 3.

https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/736406/2018_Q2_Smart_Meters_Report.pdf

⁷ Smart energy outlook, October 2018. Page 18 and page 16. <https://www.smartenergygb.org/en/-/media/SmartEnergy/essential-documents/press-resources/Documents/Smart-energy-outlook-October-2018.ashx>

A report conducted by The Department of Energy and Climate Change shows that demand is expected to rise by about a fifth (20 per cent) between 2015 and 2035⁸. This is a result of economic growth, a rising population and technological changes, such as a shift away from petrol and diesel vehicles to electric vehicles

Currently more than 8 million people in Britain are considering buying or leasing an electric vehicle in the next 5 years.

Evidence

A survey⁹ conducted for Smart Energy GB by Populus on the 29th of May 2018 is the source of this information.

⁸ Updated energy and emissions projections 2015. November 2015. Page 19.
https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/501292/eepReport2015_160205.pdf

⁹ The smart route to electric vehicles. 29 May 2018.
<https://www.smartenergygb.org/en/resources/press-centre/press-releases-folder/smart-route-to-electric-vehicles>