

# Martin Harris

---

Managing Director, Brighton & Hove Buses and Metrobus,  
Chair, The Living Coast, our UNESCO Biosphere,  
Board member, Transport for the South East,  
Board member, Coast to Capital Local Enterprise Partnership,  
Trustee board member, East Sussex Credit Union Foundation,  
Brighton & Hove Fairness Commissioner.

ZERO  
EMMISSIONS  
BY 2030



## Current carbon trend

---

OVER THE LAST  
FOUR YEARS:

Mpg has  
improved by **7.5%**



## Current carbon trend

---

OVER THE LAST  
FOUR YEARS:

Mpg has  
improved by **7.5%**

With fuel consumption  
dropping by **1 million litres**



## Current carbon trend

---

OVER THE LAST  
FOUR YEARS:

Mpg has  
improved by **7.5%**

With fuel consumption  
dropping by **1 million litres**

Site energy has improved  
Electricity by **28%** – Gas by **6%**



## Current carbon trend

---

OVER THE LAST  
FOUR YEARS:

Mpg has improved by **7.5%**

With fuel consumption dropping by **1 million litres**

Site energy has improved  
Electricity by **28%** – Gas by **6%**

**4%** of UK  
roadside emissions  
come from existing buses



## Current carbon trend

---

OVER THE LAST  
FOUR YEARS:

Mpg has improved by **7.5%**

With fuel consumption dropping by **1 million litres**

Site energy has improved  
Electricity by **28%** – Gas by **6%**

**4%** of UK  
roadside emissions  
come from existing buses

Co<sup>2</sup> emissions combined have improved by **16%** at 29,000 tonnes



## Low emission revolution to date

---

# EXTENSIVE INVESTMENT IN LOW CARBON FLEET:



EuroV1 technology augmented by Microhybrid advances – **82 buses in Brighton since 2015.**



**Upgrade of SCRT equipment to a further 90 buses in the Brighton fleet,** further aids air quality improvement.



**31 Microhybrid EuroV1 buses since 2015 for Metrobus.**

# Zero emission in Brighton

---



54 ADL E400ER hybrid electric buses with geo-fenced zero emission electric only operation through the city's Low Emission Zone delivering **244,000 miles of zero emission bus travel every year over 3 million passenger journeys.**

# Hydrogen Fuel Cell Electric Buses

---



- Only zero emission bus as flexible and efficient as we need – range of up to 370 miles per day!
- Short refuel time.
- Low impact in mining of heavy metals.
- Low impact on national grid.
- First commercial application of this technology worldwide.
- Funding from EU, UK Government, and other partners.
- Due in service on Fastway route Autumn/Winter 2021, with further routes to follow then into Brighton.



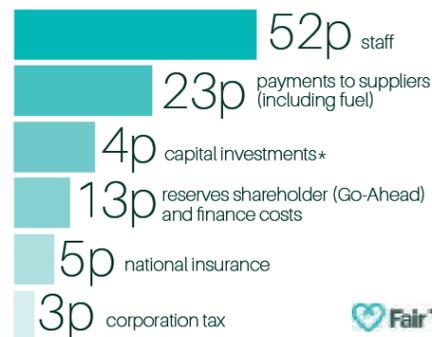
# The value of your fare



## Where does the money come from?



## Where does every £1 go?



Fair Tax  
AUDITED ACCOUNTS 17/18

## Zero emission buses alone, are not the complete answer

---

*Zero emission ambitions need to be matched with bus priority measures that reverse the decades of damage to bus journey times from traffic congestion and create the conditions for much greater modal shift towards all sustainable active travel modes, and maintaining vital access to city centre areas that people want to travel to.*

# The power of the bus

---

*People want a fairer, greener, more community-oriented future.*

*Buses are a powerful enabling force in the wider fight against climate change, and more.*

- Our partnerships can enable hydrogen for other heavy vehicle fleets, sharing investment and bringing down cost: refuse and delivery vehicles, and other buses.
- Zero emission buses with better journey times and access provide real alternatives to private cars, improving carbon impacts and local air quality.
- Better buses deliver strong returns for the local economy and deliver better public health and wellbeing outcomes.

# In summary

---

- Buses are very much part of the solution.
  - Given improvements for journey time and access.
  - Better facilities for passengers.
  - Reduced costs and improved revenues create more and faster investment and services at lower costs for users.
  - So challenge us and everyone involved in our public transport system to get it done.
- But challenge all other fuel burning vehicle types too.
  - And challenge the way we heat our homes, the way we produce and consume our food, and if I may challenge you, seek out the information and get as active and vocal as you can.
  - We are creating an information resource about transport and carbon at [www.buses.co.uk](http://www.buses.co.uk)

## In summary

---

- Buses are very much part of the solution.
- Given improvements for journey time and access.
- Better facilities for passengers.
- Reduced costs and improved revenues create more and faster investment and services at lower costs for users.
- So challenge us and everyone involved in our public transport system to get it done.
- But challenge all other fuel burning vehicle types too.
- And challenge the way we heat our homes, the way we produce and consume our food, and if I may challenge you, seek out the information and get as active and vocal as you can.
- We are creating an information resource about transport and carbon at [www.buses.co.uk](http://www.buses.co.uk)

There  
really isn't  
a lot of  
time left.