

Oxford Brookes University

Carbon Reduction

Low Carbon Oxford

About the project

Summary

Reducing emissions for our BROOKESbus fleet by upgrading to Euro VI buses and fitting them with a fuel-saving, carbon reducing system called the Gyrodrive.

Project partners

Oxford Bus Company (and their parent company Go-Ahead), ADL, GKN Hybrid Power

The results

The problem

Over 21,000 staff and students need to move to and from our campuses in the most sustainable way possible.

The approach

Upgrading our existing BROOKESbus fleet with Euro 6 vehicles and fitting each one with a Gyrodrive system.

Our goals

To reduce the carbon emissions of our fleet by as much as possible.

Obstacles and solutions

Introducing a new fleet without compromising existing services	Gradual roll-out of the new service during the summer (off-peak) period so that adequate testing could take place with minimal impact.
Fitting flywheel technology to a UK service vehicle for the first time	Careful project management from start to finish. Ensured support from all parties involved. Regular test runs to ensure optimal integration.

Performance and results

Initial feedback suggests potential CO₂ reductions of 17% and decreases in fuel consumption of an estimated 68,500 litres.

OXFORD
BROOKES
UNIVERSITY

Profile

- HEI
- 18,500 students (includes full and part time students)
- 2800 staff
- Urban

Category supported by

SALIX
SOLVING ENERGY EFFICIENCY
FINANCE IN THE PUBLIC SECTOR

The future

Lessons learned

Don't be afraid to explore new territory – the BROOKESbuses are the first commercial vehicles to be fitted with a Gyrodrive but the endeavor has been successful

Sharing your project

The project has been reported on internally through news articles and also externally in local media. Oxford Bus Company also include an article on the Hybrid engines on the "About Us" section of the website.

What has it meant to your institution to be a Green Gown Award finalist?

Being nominated as a finalist is a huge achievement for us. It shows just how much effort we are putting into ensuring that we create a sustainable transport service for the University.

Further information

Oxford Mail article:

http://www.oxfordmail.co.uk/news/13586139.University_Life_Buses_in_pole_position_to_save_fuel_with_help_of_F1/

Internal article:

<https://www.brookes.ac.uk/about-brookes/news/formula-one-technology-in-brookesbuses-saving-over-800-tonnes-of-co2-a-year/>

Oxford Bus Company article:

<http://www.oxfordbus.co.uk/hybrids/>

BROOKESbus webpage:

<http://brookesbus.oxfordbus.co.uk/>