

## 19 Useful Links

### Railway Industry information

Find the latest fleet performance data, industry 20pp complete or for sections as required. Industry contacts can also be found at this site. <https://engineeringportal.atoc.org>

### Improving Rail's Energy Efficiency

A series of reports produced by RSSB produced covering traction and non traction energy use and traction energy metrics in 2007/2008.

<https://www.rssb.co.uk/library/research-development-and-innovation/research-brief-T618.pdf>

### Whole Life Carbon Footprint of the Great Britain Rail Industry

This report was produced by RSSB for the Rail Technical Strategy Advisory Group (now TSLG) in 2010.

<https://www.rssb.co.uk/innov-prog/Documents/Energy.pdf>

### The GB Sustainable Rail Programme

The GB rail industry established the Sustainable Rail Programme (SRP) to respond to the opportunities and challenges presented by sustainable development and to contribute to the delivery of key government policy objectives such as reductions in greenhouse gas emissions, sustainable mobility, increased social inclusion and a thriving economy. The SRP is led by cross-industry and Government stakeholders and facilitated by RSSB.

[http://sustainableprogramme.rssb.co.uk/Libraries/SD\\_SelfAssessment\\_Library/User\\_guidance.sflb.ashx](http://sustainableprogramme.rssb.co.uk/Libraries/SD_SelfAssessment_Library/User_guidance.sflb.ashx)

### The Rail Sustainable Development Principles

The Sustainable Development Principles represent core values of the rail industry and are fundamental in delivering a sustainable railway at the centre of the transport system that meets the travel needs of society without compromising future quality of life.

<https://www.rssb.co.uk/improving-industry-performance/sustainable-development/rail-sustainabledevelopment-principles>

### A Guide to RSSB research in Energy

Research in the energy topic covers traction energy sources, electrification safety, electrification systems, fixed interface equipment and vehicle mounted interface equipment.

<https://www.rssb.co.uk/Pages/research-catalogue/T928.aspx>

### A Guide to RSSB Research in Sustainable Development.

This includes reference to research programmes for driver advisory information for energy management and information (T724) and eco-driving: understanding the approaches, benefits and risks (T839). <https://www.rssb.co.uk/pages/research-catalogue/t839.aspx>

Research Brief: Investigation into the use of bio-fuels on Britain's railways T697 August 2010.

The research has examined the advantages and disadvantages associated with the use of bio-fuels in the rail industry.

<https://www.rssb.co.uk/pages/search-results.aspx#k=t697>

Managing Rail's environmental impacts in Control Period 5 and beyond

This document, produced in 2010, sets out a way forward for managing the GB rail industry's impact, developed through the Sustainable Rail Programme (SRP) and its Carbon Reduction Working Group, and endorsed by the Sustainable Development Steering Group (SDSG) of cross-industry executives. It includes both carbon emissions trajectories and lists possible carbon efficiency interventions in CP5 (2014 – 2019).

<https://www.raildeliverygroup.com/about-us/publications.html?task=file.download&id=469762555>

Energy Efficiency for Railways (UIC, 2008)

This booklet has been prepared by RDG (Rail Delivery Group) on behalf of UIC (International Union of Railways). Titled "Process, Power, People", it provides practical insights for train operators into tackling energy efficiency through process improvement, technology, training and motivation of staff.

[www.uic.org/IMG/pdf/uic\\_process\\_power\\_people.pdf](http://www.uic.org/IMG/pdf/uic_process_power_people.pdf)

Transport for London: Sustainable Development

This webpage on the TfL website provides information about TfL's approach to sustainability, including tackling energy and climate change issues, and sustainable procurement.

<https://tfl.gov.uk/corporate/about-tfl/sustainability?intcmp=41575>

UIC and UNIFE websites on Energy and Carbon emissions

The webpage on the UIC (International Union of Railways) and Railenergy websites describes some of the initiatives in which the UIC and UNIFE partners have been involved in pursuit of energy efficiency and carbon emissions reduction. [www.uic.org/spip.php?rubrique1584](http://www.uic.org/spip.php?rubrique1584) [www.railway-energy.org](http://www.railway-energy.org)

The website public area allows download of energy and environmental documents, and staff of RDG member companies and partner organisations can apply to join the Engineering Extranet which contains more detailed information.

<https://www.raildeliverygroup.com/>

Environment and energy policy document September 2010

<https://www.raildeliverygroup.com/about-us/publications.html> Energy and Emissions Statement

2006/7 (October 2007), <https://www.raildeliverygroup.com/about-us/publications.html> Initial Industry Plans September 2011 <https://www.raildeliverygroup.com/about-us/publications.html>

General information and educational sources

The Engineering Institutions have Energy, Environment and Sustainability Groups or Sectors that organise conferences and seminars, and provide responses to Government consultation [www.imeche.org/knowledge/industries/energy-environment-and-sustainability/overview](http://www.imeche.org/knowledge/industries/energy-environment-and-sustainability/overview)  
[www.theiet.org/sectors/energy/about.cfm](http://www.theiet.org/sectors/energy/about.cfm)

Forum for the Future is a charity committed to sustainable development. This means developing an enriching and enjoyable way of life that does not threaten the global environment or rob future generations of resources. [www.forumforthefuture.org](http://www.forumforthefuture.org)

Government and EU agencies

The Carbon Trust is a private company set up by Government in response to the threat of climate change. Their mission is to accelerate the move to a low carbon economy by developing commercial low carbon technologies and working with business and the public sector to reduce carbon emissions.

[www.carbontrust.co.uk](http://www.carbontrust.co.uk)

The Energy Saving Trust is a non-profit organisation, funded both by Government and the private sector. Their aim is to cut emissions of CO<sub>2</sub> by promoting the sustainable and efficient use of energy.

[www.energysavingtrust.org.uk](http://www.energysavingtrust.org.uk)

Envirowise delivers a government-funded programme of free, confidential advice to UK businesses. This assistance is aimed at enabling companies to increase profitability and reduce their environmental impact.

<http://webarchive.nationalarchives.gov.uk/20090122000050/http://www.envirowise.gov.uk/uk.html>

[html](#) The Low Carbon Buildings Programme provides grants for the installation of microgeneration technologies in a range of buildings to include households,

community organisations, public, private and the non-profit sectors.

[www.lowcarbonbuildings.org.uk](http://www.lowcarbonbuildings.org.uk)

The European web portal for energy efficiency in buildings, legislation, guidance.

[www.buildup.eu](http://www.buildup.eu) (energy use in buildings, legislation, guidance etc)

BESS programme (Benchmarking and Energy Management Schemes in Small and Medium-Sized Enterprises)

A benchmarking tool and support programme developed as part of the Intelligent Energy Programme sponsored by the European Commission.

<https://ec.europa.eu/energy/intelligent/projects/en/projects/bess>

Standards

British Standards are available from the British Standards Institution

[www.bsigroup.co.uk](http://www.bsigroup.co.uk).

PAS 2050 2011 Specification for the assessment of the life cycle of greenhouse gas emissions of goods and services provides a method for assessing the life cycle of GHG emissions of goods and services

Railway Group Standards are available from the Railway Safety Standards Board [www.rgsonline.co.uk](http://www.rgsonline.co.uk)

GMRT2132 Issue 1 September 2010 On-board Energy Metering for Billing Purposes sets out the energy metering requirements when electric traction units are fitted with an energy metering system that provides data for billing purposes.

<https://www.rssb.co.uk/rgs/standards/GMRT2113%20Iss%201.pdf>

UIC/UNIFE Technical Recommendation – Specification and verification of energy consumption for railway rolling stock - TecRec 100\_001 March 2010

[https://www.uic.org/com/uic-e-news/177/article/uic-and-unife-publish-the-first-1265?page=thickbox\\_eneews](https://www.uic.org/com/uic-e-news/177/article/uic-and-unife-publish-the-first-1265?page=thickbox_eneews)