

Initiatives undertaken by a selection of Charter Signatories



The UITP Sustainable Development Charter was launched in 2003 with 33 pioneering signatories and it is encouraging to see that now over 130 UITP members have signed. Organisations commit to monitor, measure and report on their own performance in environmental, social and economic terms. The level of engagement, and quality of reporting and commitment from full signatories has reached a high level in the past few years, demonstrating the dynamism of the sector.

Many pledge signatories have been able to become full signatories and UITP has developed a set of training tools and workshops to help coach them towards this¹.

Committing to the Charter is a two-way process – it allows UITP to also get closer to its members and the examples that follow give a little snapshot of some of the latest developments and cutting-edge actions that signatories² are undertaking. More examples can be found in the 2005 sector report “Making Tomorrow Today”.

PLEDGE

Aare Seeland mobil, Switzerland



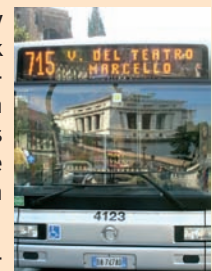
A leader in sustainable tourism and solar ferry operations, Swiss-based Aare Seeland has branded their Occupational Health and Safety programme “Oski (Oscar)– everybody’s friend”.

“Oski” uses brochures, newsletters and posters to raise awareness of a host of safety at work and healthcare issues. The initial aim of the campaign was to prevent occupational accidents during service. The campaign was then broadened to areas of life outside the working environment. Accidents today occur primarily during leisure time. Changes within society, bad diet and a lack of physical exercise are producing new patterns of sickness along with more and more problems of a psychological nature. The campaign has reduced the amount of time lost and the number of sickness days at Aare Seeland mobil and also brought about lower insurance premiums.

FULL

ATAC Rome, Italy

A Company Ecomanager was officially appointed in March 2008. Their work will focus on implementing procedures for separate waste collection in all the company assets spread across the territory of Rome and they will be responsible for the correct execution of the waste collection.



The Ecomanager is also raising colleagues’ awareness of the need to adopt environmentally friendly behaviour. The Ecomanager must interact with the Environmental Quality System already in place.

Furthermore, as a mobility agency, ATAC is promoting home-work trip plans at city level in order to reduce the share of people taking the car to work and increase the share of PT users.

ATAC is also renewing its bus fleet to guarantee the best environmental performances.

ASSOCIATION

UNIFE, European Rail Supply Industry Association



UNIFE, representing the European Railway Industries, recommitted to the UITP Charter with an EU Breakfast Briefing in June 2008 in front of an audience of EU institution officials and its members. Environment plays an important role in the development of the rail industry and UNIFE is looking in particular at the issues of internalisation of external cost, energy efficiency, noise and emissions pollution and increasing rail’s market share for a sustainable future.

¹ The presentations from all UITP coaching and training workshops can be found on Mobi+

² A full list of signatories and their website addresses (where you can find their sustainable development reports) can be found on the UITP website

APTA, American Public Transport Association



Since signing the UITP Charter in 2003, APTA has embarked on an extensive programme on sustainability for its members with a joint UITP-APTA workshop on sustainability in New York City (2005) and an annual event on this topic (next one 27-29 July 2008) to raise awareness of the importance of incorporating sustainability into the full life-cycle of public transport and to highlight best practices. A Sustainability Task Force formed in 2006 supports APTA's activities on sustainability, including work on a comprehensive set of sustainability design guidelines for public transport agencies.

With climate change becoming an increasingly hot political and public issue in the United States, APTA has recently focused much attention on public transport's contribution to reducing greenhouse gases and conserving energy. A brochure was published in February 2008 on the topic. An APTA climate change working group is currently establishing a methodology for calculating public transport's carbon footprint.

PLEDGE

Bangkok Metro Public Company Limited (BMCL), Thailand



As a signatory, and in order to comply with a sustainable development framework, the Company's policies and projects have been developed and are being implemented throughout the organisation.

One initiative that is part of the company's Corporate Social Responsibility Programme is the "Return your MRT Card, Preserve the Environment and Develop Society" scheme. Under the scheme passengers can return their expired or valueless MRT smart cards so that they can be reused in the MRT System. As such, money saved from the cost of card production will be invested in areas surrounding the MRT System's route so that BMCL can preserve the environment and support social development at the same time.

FULL

JR East, Japan

JR East is conscious of the large amount of energy it uses to transport 16 million passengers in the Tokyo metropolitan area every day. It has set a target to reduce total CO₂ emissions from railway operations by 50% by fiscal year 2031 compared with fiscal year 1991 levels.



Railcar-driving currently accounts for 70% of the company's total energy consumption, and one of the main environmental conservation activities is to achieve a lower environmental impact. This includes work on developing a 'New Energy Train' (since 2000). First, the diesel hybrid railcar was put into commercial service in 2007 and then the fuel cell hybrid railcar began trial runs on a commercial line in April 2007. Although they can reach a maximum speed of 100km/h in tests, the present power of the fuel cells is not enough to provide this power in a sustained fashion and more efficient fuel cells and a larger volume of hydrogen will be required for a commercial service.

Power-generating floors are another example of a new energy-saving system. The floor generates electricity from the vibration caused by people walking on it. Pressure of footsteps on the floor is transformed into electricity by piezoelectric elements under the floor. In 2006, the power-generating floor was installed on the passageway at Tokyo Station as a demonstration experiment. The output is small and it is still in the development phase.

JR East recently signed the UITP Charter as a full signatory as part of their commitment to increase awareness of railways as an "environmentally-friendly transportation system".

FULL

GMPT, Greater Manchester Passenger Transport Executive, UK



Metrolink became the first UK tram system to use renewable electricity for its traction current in July 2007. The contract was switched to hydro-electric power following a tendering process that incorporated environmental criteria. GMPT achieved certification to Environmental Management System ISO 14001 for all direct activities in May 2008, and the Metrolink system is working towards certification by April 2009.

Bombardier Transportation, Germany



Modern and sustainable mobility concepts should not only meet the demands of speed, comfort and feasibility, but they should also meet social and ecological criteria. Over the last 10 years, we have seen

a 25 to 30% drop in energy consumption for the same transport solution. Following our signatory commitments, we issued our first Sustainability Report at the end of 2006, supplemented by a data update in 2007, presented at the UITP Congress. Our work on Environmental Product Declarations (EPDs) was acknowledged at the 2007 International Standards Organization (ISO) TC 207 meeting in China, where we presented the EPD for the Beijing airport people mover.

Bombardier has launched a new website for everyone interested in sustainable transportation solutions: www.theclimateisrightfortrains.com. It shows the considerable advantages trains can offer to today's society.

Arintech, Argentina

Arintech carries out consulting work on mobility issues in Latin America's main cities. Its customers are both private companies and national, regional and local authorities. As a UITP Sustainable Development Charter signatory, it is committed to promoting the Charter and UITP's recommendations.



Recent achievements include:

- Inclusion of a whole chapter on non-motorised transport in Ecuador's transit law (it is in the process of reforming its Constitution);
- Signing of the Rome Manifesto by the Mayor of Quito (Ecuador);
- Actions taken to garner support for the Rome Manifesto from the Mayors of Bogotá and Pereira (Colombia) and Mexico City.

Companhia Carris de Ferro de Lisboa, SA, Portugal



Recently signed as a full signatory, there are many innovations taking place at Carris, such as its customer charter and its trials of intermittent bus lanes to improve efficiency. Other actions include:

- Carris has now obtained the Certification of the Environmental Management System in accordance with Norm NP EN ISO 14001:2004. The process took two years to complete. It is the first Public Passenger Transport Company in Portugal to obtain this Certification.
- By the end of July 2008 we hope to have 18 more lines certified by Norm 13816:2003 with Technical specifications by CERTIF (the Portuguese Association for Certification of Products), bringing the total to 40 routes (43% of all our routes).
- More than half the fleet has been renewed since 2004 and the average age of the fleet has been cut from 16.5 years (2003) to 6.5 years (2007). Another 40 new Euro 5 and Euro 4 buses will arrive in the second semester of 2008 and an international public tender has been launched to buy 40 more standard Euro 5 buses.
- By March 2008, the entire fleet of nearly 800 buses, trams, funiculars and elevators had been installed with video-surveillance (some with image transmission in case of emergency).

AnsaldoBreda S.p.A., Italy

Adopting a clean life-cycle approach ensures that AnsaldoBreda products are eco-compatible. This is achieved by reducing environmental impacts throughout the life cycle (vehicle manufacture, use, maintenance and end of life).



AnsaldoBreda's Environmental System ensures that every new job order is evaluated using a complete life-cycle assessment (LCA) method. The LCA results allow engineering staff to evaluate the environmental impacts of new technical solutions and thus adopt the most environmentally friendly ones.

Environmental project management: sustainable engineering criteria

Mindsh@re and the technical communities that make up this fundamental unit play a crucial role in promoting innovation in the industrial policies of holding company Finmeccanica. These communities share knowledge and experience, and are the driving force behind an "intelligence culture" adding value to innovation. In this context and thanks to AnsaldoBreda, the "Ecodesign" Focus Group was created, in order to respond to the needs of specific trades and to instil an environmentally oriented approach at the highest level.

First Group plc, UK



First Group publicly disclosed its Climate Change strategy in early 2007 as a starting point in reducing its emissions from surface transportation. Part of the challenge is to reduce emissions per passenger journey or passenger kilometre. It

uses the following criteria to measure the overall impact on climate change: total carbon emissions; fuel efficiency in terms of fuel use per kilometre; and carbon dioxide emissions per passenger kilometre (for UK rail) and per passenger journey (for UK bus division).

The key elements of the strategy require:

- improved fuel efficacy of existing vehicles;
- the purchase of vehicles with greater efficiency;
- the use of alternative fuels;
- improved energy efficiency of properties;
- reduction of business travel and developing green travel plans ; and
- the promotion of public transport to combat climate change.

The strategy reflects the current UK policies on reducing emissions and in particular the Renewable Transport Fuel Obligation which requires 5% of fuel sold in the UK to come from renewable sources by 2010 and the UK government's support for the introduction of new vehicle technologies and fuels.

De Lijn, Belgium

During 2008, some 20 new-generation hybrid buses will be trialled in the city of Ghent, replacing the old trolley buses. Partly co-financed by the EU Civitas Plus project, they have an undisputed environmental advantage in city traffic (characterised by frequent braking and accelerating). The kinetic energy produced by the brakes is recycled and fed to the engine propulsion system. A classic diesel motor functions as a back-up in situations where the electric engine's energy is insufficient. Alongside these, since the beginning of 2007, 22 buses driving on pure vegetable oil have been circulating in Hasselt. PVO is a "clean" fuel, but sourcing the rapeseed oil has become a problem in Flanders.



photo: WM De Lijn - Stefaan Van Hul

On the social level, De Lijn has recently launched its campaign "Be a face of De Lijn" emphasising the importance of diversity in our recruitment policy. Efforts are being made to "green" our bus and tram depots. In Flanders, the system to exchange a car registration plate for an annual PT ticket is proving attractive to households that may have more than one car.

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Scheidt & Bachmann GmbH, Germany



Sustainable Development has been a strategic objective since the very beginning of the company. The formal framework (e.g. environmental legislation) that allows companies' sustainable development performance to be measured has grown in recent years.

Driven by the legislation but also by the spirit of time, Scheidt & Bachmann has put measures in place that guarantee business continuity by taking into account social well-being for both employees and communities as well as environmental protection.

Scheidt & Bachmann builds its Sustainable Development strategy on the classic definition "development that meets the needs of the present without compromising the ability of future generations to meet their own needs".

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Veolia Transport, France

As a UITP Charter signatory since 2003, Veolia Transport (with some 800 sites worldwide) is committed to adhering to a process of regular reporting on sustainable development practices.



Thanks to our Environmental Management System created in 2001, Veolia Transport has developed an innovative tool called "Eco-Efficient Travel". It is designed to estimate the beneficial effects of public transit on a given area by calculating what would occur if a public transport system disappeared and all the passengers using public transport switched to private car.

Due to growing concern about global warming, the main goal of **Eco-Efficient Travel** is to estimate the amount of CO₂ not emitted as a result of a particular public transit system. However, **Eco-Efficient Travel** also concerns releases of local pollutants, and issues such as urban space and congestion.

FULL

Hamburger Hochbahn, Germany



Hamburger Hochbahn subsidiary HADAG (ferryboat) and ATG (tourist) run successful waterborne services on the river Elbe and Lake Alster. Over the last 10 years, passenger numbers have increased from around 2 million per year to just over 6.5

million. ATG has been using a solar-powered boat since 2000 and recently has been experimenting with a zero-emission fuel cell ferry for 100 passengers to be launched in July 2008. The “Zemship” will use only fuel cell and electric power rather than a diesel engine for backup or to provide the extra power for docking. The high costs have been partly covered by EU funding via the LIFE programme and the other half was provided by a group of partners.

FULL

Mass Transit Railway Corporation Ltd, Hong Kong

The MTR is implementing sustainability through the development of its safety, quality, environmental and asset management systems. A unique balance of risk management, stakeholder engagement and diamond vision allows a transparent annual reporting of material business risks, relevant stakeholders and performance. This is produced in hard copy with supplementary information on the internet. A risk assessment of climate change impacts, a register of CO₂ emissions and related Corporate Social Responsibility (CSR) initiatives are highlighted. Corporate and management systems governance are combined through an overall sustainability management system based on BS 8900 in accordance with Global Reporting Initiative (GRI). Third party assurance is provided.



FULL

Munich Transport Company MVG, Germany



MVG published its first sustainability report in June 2008. Themes discussed include social responsibility, environmental efforts and economic successes.

This covers past and future projects as well as a lot of statistics and figures. Our present focus is on developments in hybrid buses, new projects in mobility management and sustainable financing. MVG is involved in a number of cooperation networks on sustainable development.

FULL

Wiener Linien GmbH & Co KG, Austria

Vienna, host to the next UITP World Congress, has one of the highest modal shares of public transport in Europe. Another subway line extension opened in May will add 4 km and 5 stations. Three of these stations, which are underground, will be heated and cooled by geothermal energy. As such, it may be possible to cut energy costs by around 60%. This new technology is an Austrian development and is being used for the first time on this subway line.



ASSOCIATION

Portuguese Electric Vehicle Association, Portugal



The Geneva International Motorshow is probably the “greenest motorshow” and this year 2/3 of the exhibits showed some sort of electric, hybrid, plug in, capacitor or fuel cell models, many as concept cars. It also hosted the 3rd European Conference and Exhibition on electric vehicles (EET), together with the newly founded International Advanced Mobility Forum, thus building on the previous editions in 2004 and 2007. Next year’s EVS24 world symposium hopes to have a strong UITP presence in order to join forces promoting this new technology and its applications for public transport. There is a growing interest in pure Electric Bus transport with operations in a growing number of cities (some 70 in Europe; Quebec City; and some now in China). With crude oil at over USD120 (May

2008) – and a strong possibility that it will climb to over USD200 a barrel – electric traction coming from renewable sources will be a more interesting option for many urban transport networks. However, there is still much work to do to enlarge the supply and variety and reduce the price of electric buses.

ATCM, Italy



In May, ATCM began to promote the NIGHT TAXIBUS service through an advertising campaign aimed at target groups involving all major media stakeholders. The aim was to promote a better quality of life and improved safety for young people coming home after a night out and also to reduce traffic and congestion in the evening.

The service is only available to ATCM clients and allows them to use a taxi at night for as little as EUR3,50 for journeys within the city. The service is accessible from 9 locations in the old town centre, where most of the nightclubs are located.

The campaign slogan is: "Don't worry Mum, I'm coming home in a taxi".

Metro Bilbao S.A., Spain

One of Metro Bilbao's main objectives is to make its activity a means of contributing to sustainable development. For this reason, the title **Metro BIO** was chosen for its latest report, which was also used for the latest awareness-raising campaign. The aim of the campaign was to raise awareness of public transport's contribution to environmental protection and to the improvement of quality of life.



To achieve these objectives, Metro Bilbao uses the **best economically viable technology available**. Furthermore, **all staff are involved** in developing objectives and goals with a view to protecting the environment and encouraging Sustainable Development. Metro Bilbao strives to put **ethical and social principles** of integrity and non-discrimination into practice. Besides complying with all the relevant legal requirements, Metro Bilbao also fosters continuous improvement and training and raises staff awareness in the field of ethics and the environment.

Further information on Metro Bilbao's sustainable development efforts can be found in the **Metro BIO** report.

Yarra Trams, Melbourne, Australia



Saving water became a top priority at Yarra Trams when we were no longer able to wash our trams with mains water due to drought and the subsequent water restrictions. All four sites have been equipped with tanks to capture rainwater for washing trams, and the tanks metered at the certified Green depots. When measuring the amount of fresh water saved, it is important to consider the water restrictions, which have forced everyone to use less water (washing trams for example is not allowed anymore). Therefore, the amount of water saved does not equate to the amount of water harvested.

Consequently at Green Depots we monitor the amount of portable water saved and the amount of harvested water used. At the seven Green Depot Precinct sites about 8 million litres are saved per annum, these sites are not wholly owned by Yarra Trams. In summary we have saved 1.7 million litres of fresh water ourselves and assisted others to save an additional 8 million litres per annum and to date we have used 2.5 million litres of harvested rainwater. Although a Green Depot conversion can be costly, once the price of water increases (which is inevitable) there will be a stronger case for rolling out more sites. We are also in the process of converting all our urinals into waterless urinals with an expected saving of over 5 million litres of water per annum. There are other added benefits, as this programme has also made our staff more aware about water use both at work and at home.

üstra Hannoversche Verkehrsbetriebe AG, Germany

üstra has launched a "climate-protection campaign", which will run throughout 2008. A "demographic-change project" has also been launched to tackle the challenges facing the üstra workforce in the coming years (how to deal with ageing staff, maintain expertise and increase part-time jobs).



After a successful pilot phase, the integrated mobility card "HANNOVERmobil" (a joint access card for Public Transport, CarSharing, Taxi, etc.) became a regular offer. This card offers clients a full mobility service connected to an annual public transport subscription.

A long-term contract was negotiated with the competent authority and the trade union to make sure that üstra will continue to be the public transport operator until 2020, to secure jobs and social standards and to reduce necessary compensations.

Not yet a signatory? For information and applications, please visit the UITP website:

www.uitp.org/Public-Transport/sustainabledevelopment

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