Ecolution by Scania, a sustainable transport solution for the future – here and now

Climate change imposes an exceptional and inevitable challenge to all sectors in society. Authorities are pushing hard for reductions of CO₂ and other fossil greenhouse gases, setting targets for increased use of renewable energy. Also, consumers are engaging more and more in environmental issues to a larger extent and putting pressure on transportation to become greener. This naturally leads to a larger number of transport companies striving to attain a green image.

According to recent International Energy Agency figures, 97% of the growth in oil use will come from the transport sector, while other sectors in society reduce their oil use and greenhouse gas emissions. The transport sector is more and more seen as “the bad guy” in today’s society. Given its massive dependency of oil, how should the transport sector tackle this?

In order to overcome these obstacles, it is necessary to facilitate the path for its customers to go green – not only in small test projects – but on a large scale. Now.

Scania has introduced the Ecolution by Scania concept, which is about combining well-proven, commercial solutions for all types of heavy transport. Ecolution by Scania not only ensures a reduction of CO₂ but also facilitates the use of renewable fuels and contributes to optimising both driver performance and the operator’s transport services.

Ecolution by Scania is a package of products and services designed to maximise energy efficiency and minimise greenhouse gas emissions.

It is about offering the most economical solution for each customer, based on their specific needs. By providing a way of transportation that reduces CO₂, Scania can offer attractive public transport solutions that contribute to a better environment and that should appeal to environmentally concerned groups in society. Because the solutions are available here and now.

Source: SCANA

Volvo’s hybrid bus – one of the world’s most efficient

Volvo’s hybrid buses reduce fuel consumption by up to 35 percent and carbon-dioxide emissions by the same amount. At the UITP Exhibition in Dubai, they are being shown for the first time in the Middle East.

Volvo has started serial production of its Volvo 7700 hybrid bus and the double-decker Volvo B5L hybrid bus. Sales of the buses are now a success in Europe. Volvo has started serial production of its Volvo 7700 hybrid bus and the double-decker Volvo B5L hybrid bus. Sales of the buses are now a success in Europe.

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Mobility is a topic of growing concern for the people of the 21st century. Rapidly increasing population figures and the unbroken trend towards urbanisation are giving rise all over the world to megacities with populations in excess of 1 million. These large cities face major challenges in particular when it comes to public transport. The megacities are the pulsating hearts of nations with enormous population densities. Every day, many thousands of people will commute to workplaces in the cities. The increasing level of motorisation presents a considerable logistical challenge. A reliable public transport system is therefore essential in order to relieve the burden on the road network and the environment. Organising expanding cities with millions of inhabitants involves bringing people safely and punctually to their destinations every day, despite having to cope with traffic snarl-ups and road works. These tasks call for highly-complex but flexible planning and control systems like the products of the IVU.suite. IVU is constantly developing to meet these growing demands. We are moving, but at the same time we remain flexible and alert – ready for the challenges and solutions of the future of public transport.

Source: IVU Traffic Technologies AG

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The increasing demand for hybrid buses derives not only from Europe, but also from several other places around the world.

“Researchers currently agree that we must find methods to reduce total energy consumption,” says Edward Johnson, Environment Manager at Volvo Buses. “Hybrid technology is the best way to achieve this in public transport. This is being recognized by an increasing number of decision-makers and Volvo can offer the most efficient solution.”

Consequently, Volvo Buses have initiated test driving of buses with Volvo hybrid technology in South America and Mexico. During 2011, test driving is planned in China, and at the UITP Exhibition in Dubai, a Volvo hybrid bus will be shown for the first time in the Middle East.

Volvo’s unique hybrid technology is a parallel hybrid in which the bus can be powered by a smaller diesel engine or an electric motor independently, as well as by both engines simultaneously. The brake energy is recovered by storing it in a lithium-ion battery that provides energy to the electric motor for drive power. Several of the auxiliary systems also use electricity from the battery.

Fuel consumption in a Volvo hybrid bus is reduced by up to 35% and greenhouse-gas carbon emissions are cut by an equal amount. Other emissions are also about 40-50% lower.

Volvo’s hybrid technology also contributes to a quieter city environment, since the diesel engine is switched off at bus stops. The bus starts using only the electric motor, which results in a quiet and exhaust-free environment at bus stops.

“I am convinced that hybrid buses will dominate city traffic globally in a few years’ time, and Volvo has great prospects for becoming one of the largest suppliers of such buses,” concludes Edward Johnson.

Source: VOLVO

With the IVU.suite IVU Traffic Technologies AG will present an integrated IT solution meeting all key requirements of a public transport operator. The IVU.suite is a family of software systems which enables the provision of well-proven solutions from a single source: from planning, dispatching, fleet management, ticketing and passenger information, to the settlement of transport agreements. IVU systems plan routes, get buses running, inform passengers, ensure connections, control traffic signals, dispatch drivers, monitor fleets, sell tickets, collect data and ensure efficiency. Whether complete solutions or individual components are deployed, the products of IVU are based on open standards and can be integrated in the most varied of system environments.

To meet the growing requirements of public transport, IVU is continually upgrading its products and developing new ones. The IVU.fleet operational control system, for example, is one of the most modern systems on the market. For the first time it allows group calls using public networks. The solution PTT/GIP over GPRS offers all the functions of conventional analogue voice and data transmission, with excellent sound quality and widespread area coverage. IVU is the only system producer so far to have introduced this new communications system in its products. Important further developments have also been made in passenger information. IVU.realtime can now provide information for a fleet of 15,000 vehicles and up to 20,000 stops and stations, twice as many as in the past. Large cities, in particular, benefit from this extension.

In order to fit the demands of its customers today as well as in the future, IVU constantly develops its products and ensures that they are always up to the latest standards. So use the chance to get to know our current development highlights at UITP in Dubai and exchange experience or discuss practical matters.

Source: IVU Traffic Technologies