



PRESS RELEASE

Unveiling of the Urbino 18 hydrogen bus along with #SolarisTalks 2022

Bolechowo, 14.09.2022

Today, Solaris unveiled its Urbino 18 hydrogen bus. The presentation of the articulated model was preceded by e-mobility talks at the #SolarisTalks 2022 conference with participants from a host of different countries.

On 14 September 2022, at noon, Solaris's new articulated Urbino 18 hydrogen bus was shown to the public for the first time ever. Just before the official unveiling of the vehicle, the third edition of the international e-mobility #SolarisTalks conference took place. Both events could be followed online at www.solarisbus.com.

The Urbino 18 hydrogen bus is now Solaris's second hydrogen bus in its zero-emission offering. As with the shorter version, the main energy source in this vehicle is hydrogen. With this 18-metre model, the manufacturer is responding to the growing market for vehicles of this type. This also reflects the commitment of Solaris when it comes to the development of zero-emission solutions and its desire to provide its clients with the widest possible range of environmentally friendly vehicles.

The heart of the Urbino 18 hydrogen bus is a cutting-edge fuel cell that acts as a miniature hydrogen power plant. Hydrogen is transformed by the fuel cell into electricity which is then transferred to the driveline. Solaris's new vehicle doesn't feature a conventional engine compartment as it has been equipped with a modular drive system. The space thus saved allowed the bus maker to increase the vehicle's passenger capacity. What is more, by eliminating the engine compartment more space on the roof has been created, where composite light hydrogen tanks with a total capacity of 51.2 kg have been mounted. The use of a modular drive also facilitates servicing as its main components are now accessible from floor level.

The electricity from the hydrogen fuel cell in this articulated Solaris bus is transferred directly to the driveline. Solaris batteries with a capacity of around 60 kWh, mounted in the vehicle serve as an auxiliary power source, used, for example, during acceleration as well as a storage for recovered energy. Full refuelling of the vehicle takes around 20 minutes.

Thanks to the hydrogen technology applied and an increased number of new, light hydrogen tanks, the brand-new bus will perform excellently on longer routes. It will be able to cover about 350 km on a single refill in various weather conditions. Depending on the configuration, the bus will be able to carry up to 140 passengers. The latest model can be type-approved as a class II vehicle, which makes it possible to deploy it on inter-city routes.

The first deliveries of the 18-metre articulated vehicle will be possible as early as the second quarter of 2023. Clients will be offered the possibility of customising the bus to cater for their individual preferences. The bus will be available with four door arrangements: 2-2-2-0, 1-2-2-0, 1-2-2-2 and 2-2-2-2. As standard, the new model will feature an air-conditioning system for the passenger compartment with a heat pump, which uses heat drawn in from outside to create the right vehicle temperature. The air conditioning in the driver's cabin is powered by the passenger compartment unit. As regards additional features, clients may choose from a variety of solutions, for example, they

may opt for ADAS, i. e. advanced drivers assistance systems such as MirrorEye or MobilEye Shield+.

It is worth remembering that the Solaris Urbino 18 hydrogen bus is the second hydrogen vehicle in the manufacturer's range. The 12-metre version of the Solaris Urbino hydrogen bus was launched in 2019. Since then, nearly 100 hydrogen buses have already been delivered to customers in Italy, Germany, the Netherlands, Sweden and Poland. New deliveries to clients in Spain, France, the Czech Republic and Slovakia, amongst other countries, will start soon.

E-mobility has been a priority in Solaris's activities for many years. By offering new, increasingly technologically advanced and environmentally friendly vehicles, Solaris is eagerly sharing its know-how and inviting others to join a discussion about the future of zero-emission transport. During this year's #SolarisTalks conference, specialists from Solaris talked about their many years of experience in deploying e-mobility solutions in European towns and cities. The discussions concerned the development of hydrogen technologies and the specifics of after-sales services when it comes to electric and hydrogen vehicles. The special guest speaker at the #SolarisTalks conference, Alisa Meyer from the Alternative Drives Department at German operator Regionalverkehr Köln, talked about the challenges of introducing and operating hydrogen buses in Cologne from the perspective of a practitioner and the local public transport operator. All of this was a prelude to the main event of the day, the unveiling of the Urbino 18 hydrogen bus.

Additional information

Mateusz Figaszewski

E-mobility Development & Market Intelligence Director

Tel.: +48 61 66 72 347

Mobile: +48 601 652 179

Fax: 48 61 66 72 345

email: mateusz.figaszewski@solarisbus.com

About our company

Solaris Bus & Coach sp. z o.o. is one of the leading European bus and trolleybus manufacturers. Benefiting from 25 years of experience and having manufactured over 20,000 vehicles, Solaris affects the quality of city transport in hundreds of cities across Europe every day. Thinking of the future, the firm is setting new standards by dynamically developing its products, in particular in the electromobility sector. Solaris electric buses, trolleybuses and hydrogen buses are cutting-edge solutions for zero emission public transport. Solaris products have been repeatedly awarded for quality and innovation. The Solaris Urbino 12 electric won the prestigious European "Bus of the Year 2017" competition. In September 2018 Solaris Bus & Coach sp. z o.o. joined CAF Group.