

## **Voltabox receives first order for new LTO high-performance battery system in the USA**

- **Voltabox equipping smart trolleybus fleet of Greater Dayton Regional Transit Authority in Dayton (Ohio)**
- **Joint testing in a three-year pilot phase has proven the significant technological advantages**
- **Voltabox will initially supply 26 LTO battery systems, with a total order volume of 75 systems**
- **Project revenue in the mid-single-digit million range**
- **Initial deliveries planned for the current fiscal year**

**Delbrück, May 3, 2018 – Today, Voltabox AG [ISIN DE000A2E4LE9] announced an order for the series production of 26 battery systems for the NexGen trolleybus fleet Greater Dayton Regional Transit Authority (Dayton RTA). Overall, the framework agreement covers the delivery of 75 systems.**

Two trolleybus prototypes equipped with the newly developed battery systems from Voltabox have been in testing with Dayton RTA since 2014. Following the successful completion of the pilot phase, the transit authority has finalized its decision for Voltabox's LTO technology. The 20-year-old fleet of trolleybuses is being replaced with 26 new dual-mode buses in the first step. These receive power via overhead lines and can alternatively be powered by a battery. Voltabox supplies the modern high-voltage traction batteries with an energy content of 66.7 kWh, which are charged on-the-go via the overhead lines. These battery systems are the first to feature Voltabox's prismatic cells using high-quality lithium titanate oxide (LTO) chemistry. With 16,500 charging and discharging cycles over a service life of around 14 years, the Voltabox LTO battery systems offer longevity roughly five times greater than previous systems for trolley buses.

Thanks to the batteries, the trolleybuses can drive up to 24 kilometers without power from the overhead lines. This gives Dayton RTA trolleybuses a new kind of flexibility – allowing them

to take alternate routes in heavy traffic or construction or for extending routes that are not covered by the existing grid of overhead lines. The new buses are scheduled to be in regular operation as early as spring 2019. The first deliveries from Voltabox are planned for this year. To date, the transit authority transports more than 2 million passengers per year on its trolley routes. The new vehicle concept is expected to increase this number even further in the future.

“This is a real breakthrough for us; the new LTO technology has proven itself in practice. We are very happy that the testing performed by our partner, the local transit authority for Greater Dayton, provided excellent results and that we were subsequently awarded the contract for series production. This shows we are prepared to meet the needs of other transport companies that are looking to benefit from our battery systems,” says Jürgen Pampel, CEO of Voltabox AG. “Over the past months and years, we have equipped a large percentage of the trolleybus fleets in Seattle, San Francisco, Linz and other cities with our state-of-the-art battery systems. We are proud to be making a significant contribution to the continued electrification of local public transportation in Dayton, where they’ve been using electric trolleybuses since 1888.”

Many transport companies are currently renewing their bus fleets and opting for forward-looking vehicle concepts. Decisions are increasingly being made in favor of electric solutions, with conventional diesel emergency power generators being replaced by modern lithium-ion battery systems. This enables completely emission-free driving in inner-city traffic, while also allowing for the seamless transition between drive types during operation. The vehicle concept combines a large passenger volume with an almost unlimited range and allows for uninterrupted 24-hour operation.

Globally, about 40,000 trolleybuses in roughly 370 cities are currently in operation across 47 countries. The trolleybus is considered to be the cleanest and most economical form of e-mobility in public transportation. On the one hand, zero emissions makes an important contribution to the sustainable development of cities and regions. On the other hand, with an

average capacity of up to 8,000 passengers per hour and direction, they are as efficient as trams. The use of Voltabox battery systems also allows for flexible route extensions, even in city centers.

## **About Voltabox AG**

Voltabox is a high-growth e-mobility system provider for industrial applications. Its core business lies in intrinsically safe, highly developed high-performance lithium-ion batteries that are modular and in serial production. The battery systems are used in buses for public transportation, forklifts, automated guided vehicles and mining vehicles. The company also develops and produces high-quality lithium-ion batteries for selected mass market applications, such as high performance motorcycles. Voltabox has production sites at its headquarters in Delbrück, Germany, and in Austin, Texas, as well as a development site in Aachen, Germany. Additional information about Voltabox can be found at [www.voltabox.ag/en/](http://www.voltabox.ag/en/).

## **Financial Press & Investor Relations Contact**

### **Voltabox AG**

Dr. Kai Holtmann  
Artegastraße 1  
D-33129 Delbrueck  
Phone: +49 (0) 52 50 – 99 30-964  
Fax: +49 (0) 52 50 – 99 30-901  
E-Mail: [investor@voltabox.ag](mailto:investor@voltabox.ag)