

## World Premiere: Bombardier Transportation Presents a New Battery-Operated Train and Sets Standards for Sustainable Mobility

**Berlin, 12 September 2018** – Emission-free, energy-efficient and low-noise – the new battery-operated train from Bombardier Transportation, introduced to the public for the first time today, scores with these features. A group maiden voyage with the *BOMBARDIER TALENT 3* electro-hybrid train was the highlight of the press event at Bombardier's Hennigsdorf site. The guests included Enak Ferlemann, State Secretary at the Federal Ministry of Transport and Digital Infrastructure and Federal Commissioner for Rail Transport as well as the Brandenburg Transport Minister Kathrin Schneider.

"We want to continue to electrify rail transport. A train that can charge its batteries from the overhead line while driving is a huge step toward this and the epitome of innovation," the State Secretary stated. "On non-electrified or only partially electrified routes, the motto is: move away from diesel on the tracks and toward cleaner and more environmentally-friendly mobility."

The new battery-operated train is the first of its kind to enter passenger operation in Europe in over 60 years. It does not generate any exhaust and sets the standards for smart mobility with peak values of 90 percent in the areas of efficiency and recyclability. It is also around 50 percent quieter than modern diesel trains. According to a comparative study by the Technical University of Dresden, the battery-operated train clearly has an edge with respect to the total costs across the service life of 30 years.

"With our new battery-operated train, we are putting real innovation on the tracks," says Michael Fohrer, Head of Bombardier Transportation in Germany. "This train is Bombardier's technological response to challenges such as air pollution, climate change and scarcity of resources. Around 40 percent of the German rail network is not electrified. The Bombardier battery-operated train is an attractive option to counter that, both economically and ecologically speaking."

In general, the prospects for the battery-operated train are positive. The range increases proportionally with the continuous capacity increases due to new battery developments. The current prototype is equipped with four *BOMBARDIER MITRAC* traction batteries and can travel routes of around 40 kilometres – in 2019, the next generation of battery-operated trains will be able to cover distances of up to 100 kilometres on non-electrified railways. In 2019, Deutsche Bahn (DB) will start a twelve-month trial run with passengers with the current prototype in the Alb-Lake Constance region.

The development of the battery-operated train is subsidised by the German federal government in the framework of an innovation program for electromobility with four million euros. The project partners include the DB Regio subsidiary DB ZugBus Regionalverkehr Alb-Bodensee (regional transport for the

Lake Constance region), Nahverkehrsgesellschaft Baden-Württemberg (Baden-Wuerttemberg Regional Transport Company) and the Nationale Organisation Wasserstoff- und Brennstoffzellentechnologie (National Organisation for Hydrogen and Fuel Cell Technology) and the Technical University of Berlin.

### **About Bombardier Transportation**

Bombardier Transportation is a global leader in rail technology and offers the broadest portfolio in the industry. It covers the full spectrum of rail solutions, ranging from trains to sub-systems and signalling. The company also provides complete transport systems, e-mobility technology and maintenance services. As an innovation driver, Bombardier Transportation continuously breaks new ground in sustainable mobility. It provides integrated solutions that create substantial benefits for operators, passengers and the environment. Headquartered in Berlin, Germany, Bombardier Transportation employs around 39,850 people and its products and services operate in over 60 countries.

### **About Bombardier**

With over 69,500 employees across four business segments, Bombardier is a global leader in the transportation industry, creating innovative and game-changing planes and trains. Our products and services provide world-class transportation experiences that set new standards in passenger comfort, energy efficiency, reliability and safety.

Headquartered in Montreal, Canada, Bombardier has production and engineering sites in 28 countries across the segments of Transportation, Business Aircraft, Commercial Aircraft and Aerostructures and Engineering Services. Bombardier shares are traded on the Toronto Stock Exchange (BBD). In the fiscal year ended December 31, 2017, Bombardier posted revenues of \$16.2 billion US. News and information are available at [bombardier.com](http://bombardier.com) or follow us on Twitter [@Bombardier](https://twitter.com/Bombardier).

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