440 kWh battery component

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PORTLAND, Ore., May 9, 2022 /PRNewswire/ -- Freightliner Trucks, a division of Daimler Truck North America LLC (DTNA), today unveiled the new eCascadia at ACT Expo in Long Beach, CA. Built on the best-selling heavy-duty truck platform in North America, the new battery electricFreightliner eCascadia provides customers with a zero-emission version of the industry-leading Cascadia and debuts its innovative safety and connectivity features.

Extensive development and rigorous testing through several prototypes and customer-tested trucks, resulted in a powerful and efficient battery electric truck with multiple battery and drive axle options, providing a typical range of 230 miles (depending on vehicle configurations)1. The eCascadia is ideally suited for short-haul routes that allow for depot-based charging, examples of which include last mile logistics, local and regional distribution, drayage and warehouse to warehouse applications.

Powered by in-house developed Detroit ePowertrain

Detroit, the industry-leading manufacturer of state-of-the-art engines, axles and transmissions, is the power behind the eCascadia. The in-house developed Detroit ePowertrain is designed for a full integration with the eCascadia for maximum power, increased driving dynamics, and driver comfort, all with zero emission.

The eAxle is an electric drivetrain component integrated with an electric motor, transmission and specialized electronics within a compact unit. Detroit"s ePowertrain provides two eAxle designs including a dual motor with max torque of 23,000 lb-ft and max power of 395 hp, and a single motor featuring a max torque of 11,500 lb-ft and max power of 195 hp.

The Detroit ePowertrain offers three battery options for a range of sizes and average, zero-to-full charging times starting with 194 kWh (one and a half to three hours), 291 kWh (two to four hours), and 438 kWh (two to six hours). Detroit"s Li-Ion batteries enable the eCascadia to meet critical range targets without sacrificing payload.

Because the Detroit ePowertrain produces less heat than a traditional combustion engine, temperature and packaging requirements for cooling are minimized. This allows the eCascadia to come with closed hood vents, and a new grille, which reduces drag by forcing more air around the vehicle, as opposed to pulling it through the radiator.

Innovative Detroit Connect eServices for an efficient and productive electric fleet

Connectivity plays a critical role in successful freight operations. Innovative Detroit Connect eServices have been exclusively developed for eCascadia and offer features that allow for maximum uptime, productivity, and

profitability.

An in-house developed Charger Management System (CMS) is integrated directly into the Detroit Connect portal. CMS provides reports about depot utilization, data for grant compliance and Low Carbon Fuel Standard credit reporting, and can strategically save fleets money by leveraging demand-response incentives from local utilities. Additionally, CMS allows for staggered charging of multiple vehicles, charging during off-peak-demand hours, and partial charging. CMS is optimized for use with Detroit eFill chargers, and is also compatible with other popular charger models.

The eRange prediction tool automatically and accurately calculates and displays range over the course of a proposed trip. To give the most accurate indication possible, the tool analyzes multiple data inputs including vehicle parameters, load, weather, traffic, and road gradient. eRange Prediction allows for testing of "what-if" scenarios and performs analysis.

Battery health monitoring tracks and gives visibility into the eCascadia battery"s state-of-health percentage, state-of-charge percentage, remaining range miles, and charging status. Post-trip analysis gives actionable information to improve the eCascadia"s performance, utilization, and driver training. Based on actual trip data, users can visualize and quantify operational differences between trips. Outlying data is highlighted so that managers can easily identify exceptional situations.

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