



# Press Release

## CATL supplies battery to Trailer Dynamics to accelerate road transport electrification in Europe

Trailer Dynamics has developed the Newton e-Trailer, an electric drive train that replaces one of the trailer's conventional non-powered axles with an electric axle. In combination with the diesel vehicle, the entire tractor-trailer system is converted into an electric plug-in hybrid. Together with adaptive aerodynamics developed by Trailer Dynamics and the intelligent control strategy for the electric auxiliary drive, significant CO<sub>2</sub> emission reductions will be achieved and diesel savings in average of 40% are possible.

Ningde, China / Contemporary Amperex Technology Co. Limited (CATL) <300750.SZ> and Trailer Dynamics GmbH (Trailer Dynamics) sign a battery supply agreement for a new way to electrify long-haul trucks. According to the agreement, CATL will develop, manufacture, and supply batteries for the Newton eTrailer, which will launch in 2023 to promote sustainable road transport development in Europe.

CATL is providing stable supply of batteries to Trailer Dynamics to satisfy Europe's greenhouse gas emissions requirement by reducing diesel consumption and carbon emission. Newton eTrailer, Trailer Dynamics's first electric semi-trailer model, is designed to respond to the driving behavior of its coupled tractor using integrated electric drive train and provides support for it through an integrated electric transmission system, managing the electrical energy resources intelligently along the entire route. Both sides creatively apply the battery to semi-trailer, while improving efficiency, also lower operating expenses.

“CATL always provides customers with the most suitable and valuable solution to promote e-mobility,” said Li Xiaoning, Executive President of Overseas Commercial Application of CATL, “Trailer Dynamics promotes the electrification of road transport with smart and advanced solutions. Together with Trailer Dynamics, the frontrunner of truck electrification, we are accelerating the development and population of European e-mobility. CATL believes cooperation is a milestone in the area of zero-emission logistics for long-haul trucks.”

To meet the requirements of a highly efficient under the complex working condition for long-haul trucks, CATL is developing 300 kWh lithium iron phosphate (LFP) battery with cell to pack (CTP) technology and cooling liquid for the Newton eTrailer. The LFP chemistry system features in extraordinary long cycle life and high thermal runaway temperature of up to 800°C. Together with liquid cooling technology, it enables products outstanding performance in safety and reliability, as well as wide working temperature range. Besides, applying the advanced CTP technology, Newton eTrailer has a higher product efficiency to achieve 155Wh/kg system energy density. Under Europe's tough emissions rules, Newton eTrailer with CATL battery system will become a very competitive product by the lower total cost of ownership (TCO) and a better experience for end-users.

# CATL

Contemporary Amperex  
Technology Co. Limited (CATL)

## A easy choice we had to make

“Benefit from the leading technological quality and strength of CATL, the cooperation will appreciate the position of Trailer Dynamics as a frontrunner in the area of electrified long haul trailers,” said Michael Nimtsch, the co-founder of Trailer Dynamics.

“A high-quality, high performing durable battery is a central USP that makes the crucial difference to all other competing concepts in the long haul industry,” Abdullah Jaber, CEO of Trailer Dynamics, said, “CATL with their very high-quality components on our side was a very easy choice we had to make.”

The further discussion of cooperation in future models are being expanded between CATL and Trailer Dynamics.



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