

Caterpillar demonstrates new automated energy transfer solution for battery electric large mining trucks

IRVING, Texas, September 20, 2024 – Caterpillar Inc. (NYSE: CAT) showcased a new solution to support battery electric truck charging – the Cat® Automated Energy Transfer System (Cat AETS). The company successfully demonstrated this new technology for customers at its Tucson Proving Ground in Green Valley, Arizona.

Cat AETS utilizes robotics, robust vision systems and controls to fully automate the connection between a battery electric machine and a two- to six-megawatt stationary charger. The system replaces the manual process of mine site personnel connecting and disconnecting a charger from a battery electric machine.

Cat AETS enhances mine site safety by removing site personnel directly from the machine charging process, facilitating a more fully autonomous site operation. Automating the charging process can also reduce downtime and improve consistency and reliability of the machine charging process.

Caterpillar Senior Vice President Greg Hepler explains, “When it comes to meeting production goals, every second matters on our customers’ mine sites. Through our advancements in mining technology and automation, our repeatable processes enhance machine reliability and ultimately reduce downtime. Caterpillar is proud to offer the solutions that create benefits for the battery electric machine charging process.”

Cat AETS is a complementary offering to the company’s recently announced [Cat Dynamic Energy Transfer system](#) (Cat DET).

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TRADE PRESS RELEASE

New Product Introduction

NOTE TO EDITORS

About Caterpillar:

With 2023 sales and revenues of \$67.1 billion, Caterpillar Inc. is the world's leading manufacturer of construction and mining equipment, off-highway diesel and natural gas engines, industrial gas turbines and diesel-electric locomotives. For nearly 100 years, we've been helping customers build a better, more sustainable world and are committed and contributing to a reduced-carbon future. Our innovative products and services, backed by our global dealer network, provide exceptional value that helps customers succeed. Caterpillar does business on every continent, principally operating through three primary segments – Construction Industries, Resource Industries and Energy & Transportation – and providing financing and related services through our Financial Products segment. Visit us at [caterpillar.com](https://caterpillar.com/en/news/social-media.html) or join the conversation on our social media channels at caterpillar.com/en/news/social-media.html.

Caterpillar rolls out products and services in each of its regions at different time intervals. Although every effort is made to ensure that product information is released only after Caterpillar has received confirmation from its independent dealer network, plants, and marketing subsidiaries that products and services are available in the relevant region, editors are kindly requested to verify with a Cat dealer for product availability and specifications.

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