Abb battery storage

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Our Application packages were designed by domain experts to focus on your specific challenges.Play your role in the energy transition by getting Battery Energy Storage Systems the protection they need to enable higher performances and reliability.

Batteries go hand in hand with ABB"s core businesses of electrification and automation. This includes integrating traction batteries to power electrified public transit; batteries that act as uninterruptible power supplies (UPS) in data centers; batteries to replace diesel engines in construction; and battery energy storage systems (BESS) on board marine vessels.

The transportation sector is also undergoing a significant transformation with the rapid adoption of electric vehicles (EVs). While the focus often falls on passenger cars, big changes are also underway in the public transit and industrial vehicle segments.

ABB is a leading supplier of traction batteries and wayside energy storage specifically designed for these heavy-duty applications, engineered to withstand the demanding conditions of transportation and industrial environments.

Austrian Federal Railways (?BB) has set an ambitious goal of achieving climate neutrality by 2030. ABB is supporting this effort by supplying key technology for ?BB"s new fleet of hybrid maintenance vehicles. These innovative vehicles combine traditional diesel engines with ABB"s advanced traction converters and lithium-ion batteries, resulting in a significant reduction in carbon emissions.

The maritime industry is another transportation sector undergoing rapid change in how operations are powered. Our focus on marine vessel electrification leverages our expertise in BESS, integrating modular battery power supplies designed specifically for the harsh marine operating environment and compatible with both high- and low-voltage AC and DC power systems. This versatility allows for integration with a variety of marine power sources, including diesel or gas engines and even fuel cells.

This technology has the potential to significantly reduce emissions and create a cleaner future for maritime transportation, utilizing hybrid diesel-electric propulsion, fully electric propulsion, onboard power supply and distribution, and battery management systems.

One example is the recent launch of the first all-electric harbor tug in the United States, the eWolf, operated by Crowley at the Port of San Diego. This vessel is powered by ABB"s innovative battery-electric propulsion system, helping reduce greenhouse gas emissions and pollution in the area.

ABB offers a range of technologies and services that support the entire battery industry ecosystem. For battery

manufacturers, ABB provides automation, electrification, digital and robotics solutions that optimize battery production lines, ensuring efficiency, quality and safety. This expertise streamlines the manufacturing process and accelerates the production of reliable battery systems.

ABB's Plant Optimization Methodology for Battery Manufacturers, for example, is a set of solutions that help battery makers improve project execution at every stage of the lifecycle. It is built upon a solid foundation comprising electrification, instrumentation, control and digitalization (EICD); ABB Adaptive Execution(TM); and ongoing operational support. This integrated offering helps battery manufacturers reduce project changes, complexity, risk and cost.

CMBlu Energy, a German company specializing in sustainable battery solutions, has partnered with ABB to optimize its battery production line. CMBlu"s exciting battery innovations rely on organic materials and non-flammable electrolytes.

Batteries are clearly fundamental to EVs. Here, ABB is supporting carmakers in efficient battery production, including robotics solutions for battery pack assembly and battery tray manufacturing, part of our wider portfolio of offerings for EV production.

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