

We make the electric revolution work.*

* The ways people and materials move are changing. Electric vehicle (EV) market share is rising, but adoption challenges remain a concern. EV manufacturers are tasked with balancing vehicle weight, power requirements, consumer expectations and costs. At Eaton, we combine vehicle expertise with extensive electrical insights to engineer forward-thinking solutions for EV systems. And we're also leveraging our electrical know-how to help develop more electrified aircraft. All for safer, cleaner and more cost-efficient transportation.

7.8 billion

 passengers will travel the skies in 2036—nearly double today's rate.¹

With so much growth on the horizon, we're ready to support aerospace OEMs with lighter, fuel-efficient technologies that operate around the clock and make a positive impact on emissions reduction.

700%

The increase in greenhouse emissions from air travel by the end of the century.²

4%

The total contribution of global greenhouse gas emissions from airplanes.³

800

watt-hours per kilogram
Energy needed to fly a Boeing 737 600 nautical miles.⁴

Actuation and motion control

With the industry-first steer-by-wire system and flap-by-wire controllers, our technologies maximize efficiency and cut on weight and envelope.

Hydraulic power packs

Our single-unit integrated hydraulic system is lightweight to reduce fuel consumption and offers improved efficiency by converting electric power into hydraulic power.

\$362.7 billion by 2025.⁵

Whether it's cross-country hauling or busing commuters to and from work, our commercial EV technologies help you keep pace with performance goals without sacrificing your bottom line.

460k

Electric buses worldwide in 2018.⁶

250k

Light commercial vehicles on global roadways in 2018.⁷

9%

By 2030, annual sales of electric medium- and heavy-duty trucks and buses will grow by over 9% annually to about 514,000.⁸

EV transmissions

Our EV transmissions deliver the efficiency and performance required for medium- and heavy-duty trucks and buses around the globe.

48-volt mild hybrid system

Our electronically regenerative accessory drive reduces emissions and increases fuel savings. The 48V motor powers HVAC systems and replaces alternators to charge batteries for greater flexibility.

5.1 million in 2018,

 up two million from the previous year.⁹

Our passenger EV expertise, global resource networks and product offerings help you build vehicles that go farther, charge faster and get passengers safely to their destinations.

30%

The portion of the global passenger vehicle fleet that will be electric by 2040.¹⁰

5.1m

The current fleet of electric cars across the globe.¹¹

1m+

4.4% of China's passenger cars sold are electric—the most of any nation.¹²

Bussmann series fuses

Our fast-acting fuses increase safety by protecting the main high-voltage bus to traction inverters and high-voltage auxiliary circuits.

Power electronics

Our power-dense inverters and DC/DC converters optimize driving dynamics and range by efficiently regulating ac and dc power where and when it's needed.

We make what matters work.*

* By leveraging our electrical expertise, we enable our vehicle and aerospace customers to take their businesses to newer, greener horizons. We're working with OEMs around the globe to accelerate driving dynamics and range by efficiently regulating ac and dc power where and when it's needed. Because that's what really matters. And we're here to make sure it works. To learn more, visit Eaton.com/WhatMatters.

¹ International Air Transport Association (IATA), October 2018, 2036 Forecast Reveals Air Passengers Will Nearly Double to 7.8 Billion. Retrieved from <https://www.iata.org/pressroom/pages/2017-10-24-01.aspx>
² IATA, Umeir (2019, April). Forget cars. We need electric airplanes. Retrieved from <https://www.iata.org/pressroom/2019/04/09/the-electric-aircraft-is-taking-off>
³ IATA, Umeir (2019, April). Forget cars. We need electric airplanes. Retrieved from <https://www.iata.org/pressroom/2019/04/09/the-electric-aircraft-is-taking-off>
⁴ IATA, Umeir (2019, April). Forget cars. We need electric airplanes. Retrieved from <https://www.iata.org/pressroom/2019/04/09/the-electric-aircraft-is-taking-off>
⁵ Navigant Research (2019, 4Q). Market Data: Electric Trucks and Buses, Medium and Heavy Duty Trucks and Buses with Hybrid, Plug-In Hybrid, Battery Electric, and Fuel Cell Powertrains: Global Market Analysis and Forecasts. Retrieved from <https://www.navigantresearch.com/reports/market-data-electric-trucks-and-buses>
⁶ The International Energy Agency (2019, May). Global EV Outlook 2019: Scaling up the transition to electric mobility. Retrieved from <https://www.iea.org/publications/reporting/global-ev-outlook/2019/>
⁷ McKinsey & Co (2018). BloombergNEF Electric Vehicle Outlook. Retrieved from <https://about.bnef.com/bnef/electric-vehicle-outlook/>
⁸ The International Energy Agency (2019, May). Global EV Outlook 2019: Scaling up the transition to electric mobility. Retrieved from <https://www.iea.org/publications/reporting/global-ev-outlook/2019/>
⁹ Statista, Felix (2019, May). Who Leads the Charge Towards Electric Mobility? Retrieved from <https://www.statista.com/chart/12162/electric-vehicle-seller/>