

New Technology for eMobility

FIEE ABINEETEC DIGITAL WEEK

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Electrification - Introduction

The wide world of electromobility from Bosch



**More than
2,500,000**

... electric and hybrid cars fitted with Bosch components are on the world's roads.



**Hybrid Technology from
Bosch**

... was used in the world's first parallel hybrid vehicles.



more than 90

...electromobility series production projects for passenger cars have already been realized by Bosch.

We deliver core components such as electric motors, power electronics or complete drive units to customers worldwide.

Electrification - Introduction

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We provide **electric powertrain solutions** for **all vehicle classes**: comprehensive, scalable, and flexible.



Systems for **light electric vehicles** and **electric bikes**



Electromobility for **passenger cars**



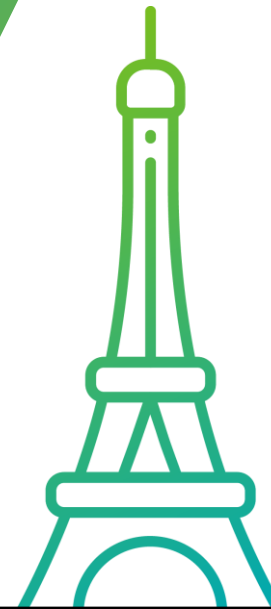
Electromobility for **commercial vehicles**

Bosch is helping electromobility achieve a quick breakthrough.
We help manufacturers to reduce their development times and launch their products faster.

Global drivers for electrification

Three main drivers:

- **Emission regulations** for road traffic getting tighter
- **Driving bans** for combustion engines in inner cities, urbanization
- **Subsidies and incentive policies** (e.g. to push “New Energy Vehicles” in CN or EU)



Electrification trends & market

Trends radar



Bosch electrified powertrain

Electrification at powertrain systems (PC/LCV)

In 2030, around **3 million** newly registered passenger cars and light commercial vehicles will be powered by fuel cells.

Fuel cell

Long-distance electric transport for deliveries into urban areas

Diesel has a **15%** CO₂ advantage over comparable gasoline systems.

At least **67%** of all new vehicles will still be powered by a diesel or gasoline powertrain in 2030, with or without hybrid technology.

Vehicles with ICEs

More economical and eco-friendly in regular long-distance operation



In 2030, around **35%** of all newly registered passenger cars and light commercial vehicles will feature fully electric drive systems.

Battery

The home of the electric car is the city

Electric motors with efficiency of up to **98%** enable efficient and dynamic driving.

By 2030, almost **50%** of the passenger cars and light commercial vehicles with internal-combustion engines will feature partially electric drive systems.

Hybrid

Efficient and dynamic thanks to electrification

Consumption up to **15%** lower with the 48-volt system.

Renewable synthetic fuels

Important component of the future mobility mix

Around **50%** of the vehicles that will be on the road in 2030 have already been sold – most of them with gasoline or diesel engines.

100% of all vehicle with ICEs could be run carbon-neutrally with renewable synthetic fuels.



Invented for life

is the compass for everything we do.

Vision becomes reality

We believe in sustainable mobility through powertrain electrification.

We offer a comprehensive and flexible portfolio of electrification components and systems - costs attractive innovations for a global mass electrification

THANK
YOU