

New energy vehicles and energy storage field scale and trends

How to predict the technology trends of the new energy vehicle industry?

Predicting the technology trends of the new energy vehicle industry. Using integrated methods of Latent Dirichlet Allocation and Vector Autoregression model. In the sustainable development context, the automotive industry is shifting towards new energy vehicles (NEVs) to reduce carbon emissions.

Why is the automotive industry moving towards new energy vehicles?

In the sustainable development context, the automotive industry is shifting towards new energy vehicles (NEVs) to reduce carbon emissions. China leads in NEVs production and technology but faces challenges in innovation capacity due to increasing market competition and technological demands.

What are energy management systems in electric vehicles?

In HEVs, energy storage devices, such as batteries and supercapacitors (Fig. 1c), are combined with internal combustion engines (ICEs) (Fig. 1a). Energy management systems are essential to optimizing various types of electric vehicle (EV).

Why is energy storage management important for EVs?

We offer an overview of the technical challenges to solve and trends for better energy storage management of EVs. Energy storage management is essential for increasing the range and efficiency of electric vehicles (EVs), to increase their lifetime and to reduce their energy demands.

What are energy storage technologies for EVs?

Energy storage technologies for EVs are critical to determining vehicle efficiency, range, and performance. There are 3 major energy storage systems for EVs: lithium-ion batteries, SCs, and FCs. Different energy production methods have been distinguished on the basis of advantages, limitations, capabilities, and energy consumption.

What is China's Energy-Efficient Vehicle & NEV plan?

The Chinese government approved this plan in July 2012 with aims to: (1) accelerate the industrialization process of energy-efficient vehicle and NEV; (2) cope with energy shortage and environment challenges effectively; and (3) promote sustainable development of auto industry .



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