



Review

# Energy Management Strategies for Hybrid Electric Vehicles: A Technology Roadmap

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**Abstract:** Hybrid electric vehicles (HEVs) are set to play a critical role in the future of the automotive industry. To operate efficiently, HEVs require a robust energy management strategy (EMS) that decides whether the vehicle is powered by the engine or electric motors while managing the battery's state of charge. The EMS must rapidly adapt to driver demands and optimize energy usage, ideally predicting battery charge rates and fuel consumption to adjust the powertrain in real time, even under unpredictable driving conditions. As HEVs become more prevalent, EMS technologies will advance to improve predictive capabilities. This analysis provides an overview of current EMS systems, including both rule-based and optimization-based approaches. It explores the evolution of EMS development through a technology roadmap, highlighting the integration of advanced algorithms such as reinforcement learning and deep learning. The analysis addresses the technologies that underly this evolution, including machine learning, cloud computing, computer vision, and swarm technology. Key advances and challenges in these technologies are discussed, along with their implications for the next generation of EMS systems for HEVs. The analysis of these technologies indicates that they will play a key role in the evolution of EMS technology, allowing it to better optimize driver needs and fuel economy.

**Keywords:** energy management systems; technology roadmap; deep learning; reinforcement learning; hybrid electric vehicles



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## 1. Introduction

The automotive industry has been powered by the internal combustion engine for over a century. However, the industry is moving away from traditional internal combustion engines due to concerns about climate change and foreign oil dependence [1]. Recently, many countries have banned the sale of automobiles that use only internal combustion engines due to harmful emissions [2]. While the end goal is for the entire automotive sector to transition to electric vehicles (EVs) powered by renewable energy, this shift is currently limited by the cost of batteries and the associated vehicle range [3]. Meanwhile, hybrid electric vehicles (HEVs) can achieve many of the advantages of EVs while avoiding issues related to range. HEVs use both an internal combustion engine and a battery/motor assembly to power the vehicle [4].

Inherent in HEVs is their energy management strategy (EMS), which sets the conditions for when the vehicle is powered by the engine versus the battery/motor assembly. The EMS plays a key role in ensuring the vehicle operates under optimal conditions to minimize fuel consumption. The goal of this review paper is to provide a technology roadmap for the EMSs used in HEVs. It first discusses the significance and current state of the EMSs in modern HEVs. It then develops a technology roadmap for future EMSs based on market trends. This paper then presents a comprehensive review of the technologies driving the evolution of EMSs, including machine learning, computer vision, cloud computing, and swarm technology. These technologies are discussed in relation to EMSs, with a particular focus on how their advances affect overall fuel and energy consumption.

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**Vehicles Strategies America 44 2299 Electric Vehicles Strategies USA:**

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