VEHICLE EFFICIENCIES

of Electric Vehicles vs. Hydrogen Vehicles

The internal combustion engine is notoriously inefficient, with efficiency losses 80%, delivering just 10-20% of the fuel's energy into moving the wheels. So how do electric vehicles and hydrogen vehicles compare?

ELECTRIC VEHICLES

100% RENEWABLE ELECTRICITY

energy losses

TRANSPORT, STORAGE, AND DISTRIBUTION -5%

95% FUEL PRODUCTION EFFICIENCY

BATTERY CHARGE EFFICIENCY -5%

ELECTRIC DRIVE AND SYSTEM LOSSES -18%

ENERGY DELIVERED TO THE WHEELS

87% ENERGY EFFICIENCY

5% INVERSION AC/DC

5% INVERSION DC/AC

+20% REGENERATIVE BRAKING (RECOVERED)

HYDROGEN VEHICLES

100% RENEWABLE ELECTRICITY

ELECTROLYSIS (Electricity to Hydrogen) 30%

52% FUEL PRODUCTION EFFICIENCY

26% TRANSPORT, STORAGE, AND DISTRIBUTION

FUEL CELL (Hydrogen to Electricity) 50%

ELECTRIC DRIVE AND SYSTEM LOSSES 18%

ENERGY DELIVERED TO THE WHEELS

40% ENERGY EFFICIENCY

5% INVERSION DC/AC

+20% REGENERATIVE BRAKING (RECOVERED)

EVs are able to put much more of the initial electricity to use than hydrogen cars, which lose energy converting electricity to and back from hydrogen.

Sources: InsideEVs, Transport & Environment

Sources:
https://insideevs.com/news/352584/efficiency-compared-battery-electric-75-hydrogen-22-ice-13/

ENERGY minute

Electric Vehicle Vs Store Hours

Rajkumar Viral,Anuradha Tomar,Divya Asija,U. Mohan Rao,Adil Sarwar

Electric Vehicle Vs Store Hours:

Role of Plug-in Electric Vehicles in Grid Management Services Ark Dev,Vineet Kumar,Vivek Prakash,2025-11-05 The increasing integration of plug in electric vehicles PEVs into power grids has sparked new challenges and opportunities in energy management grid stability and sustainable power solutions Role of Plug in Electric Vehicles in Grid Management Services provides a comprehensive exploration of how PEVs are transforming modern power networks offering solutions for demand side management vehicle to grid V2G integration and energy storage This book presents in depth discussions on emerging technologies smart charging strategies and optimization methods to ensure a resilient and efficient grid infrastructure With contributions from leading researchers and industry experts this book delves into critical areas such as the impact of EV integration on grid stability smart charging infrastructure battery health monitoring using AI and advanced power electronic converters for seamless EV grid interactions Covering both theoretical foundations and practical applications this book serves as an essential resource for researchers policymakers and professionals working at the intersection of electric mobility and power systems Key Features A detailed review of the impact of EV integration on power grids and energy transition Cutting edge insights into smart charging infrastructure and multi criteria decision making for lithium battery selection AI and machine learning applications for battery health monitoring and key parameter estimation Novel optimization techniques for multi area microgrids incorporating energy storage and EVs Advanced power electronics designs including DC DC converters and resonant converters for efficient EV charging Exploration of future trends and research directions in EV integrated grids This book is an invaluable reference for academics engineers and researchers in electrical engineering renewable energy and electric vehicle technology It will also benefit industry professionals involved in power system planning grid management and electric mobility solutions **Smart Grids for Renewable Energy Systems, Electric Vehicles and Energy Storage Systems** Rajkumar Viral,Anuradha Tomar,Divya Asija,U. Mohan Rao,Adil Sarwar,2022-10-10 This comprehensive reference text discusses simulation with case studies and realworld applications related to energy system models the large scale integration of renewable energy systems electric vehicles and energy storage systems The text covers analysis and modeling of the large scale integration of renewable energy systems electric vehicles and energy storage systems It further discusses economic aspects useful for policy makers and industrial professionals It covers important topics including smart grids architectures wide area situational awareness WASA energy management systems EMS demand response DR smart grid standardization exertions virtual power plants battery degradation modeling optimization approaches in modeling and smart metering infrastructure The book Discusses the analysis and modeling of the large scale integration of renewable energy systems electric vehicles and energy storage systems Covers issues and challenges encountered in the large scale integration of electric vehicles energy storage systems and renewable energy systems into future smart grid design Provides simulation with case studies and real world applications related to energy

system models electric vehicles and energy storage systems Discusses the integration of large renewable energy systems with the presence of a large number of electric vehicles and storage devices systems Discussing concepts of smart grids together with the deployment of electric vehicles energy storage systems and renewable energy systems this text will be useful as a reference text for graduate students and academic researchers in the fields of electrical engineering electronics and communication engineering renewable energy and clean technologies It further discusses topics including electric grid infrastructure architecture interfacing standardization protocols security reliability communication and optimal control

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