

## Guatemala city electric vehicle safety

Guatemala's transition toward sustainable transportation is gradually gaining momentum, with electric vehicles (EVs) emerging as a viable solution to environmental and economic challenges. While the adoption of EVs in the country remains limited, their potential to reduce greenhouse gas (GHG) emissions and improve air quality is undeniable.

On August 9, 2022, the Congress of the Republic of Guatemala approved Decree 40-2022, which contains the Law on Incentives for Electric Mobility offering tax inducements on the importation, sale, and use of electric vehicles or those that run on hydrogen, as well as hybrid cars. Tax benefits include exemption from the Value Added Tax on.

This report analyzes the economic and environmental impact of electric vehicles in Guatemala and describes the proposed actions to promote the development of the market in the country. The study builds a baseline of average consumption and CO2 emissions by type of private vehicle between 2007-2016, and proposes four scenarios for the ...

**Electric Vehicles.** Several full-electric motorcycles, cars, and cargo vehicles are offered in the country. However, according to data from the tax administration office SAT, electric vehicles represent less than 2% of Guatemala's total car park.

Guatemala's transition toward sustainable transportation is gradually gaining momentum, with electric vehicles (EVs) emerging as a viable solution to environmental and economic challenges. While the adoption of EVs in the country remains limited, their potential to reduce greenhouse gas (GHG) emissions and improve air quality is undeniable. The push for cleaner transportation aligns with the global shift toward reducing dependence on fossil fuels, with local implications for Guatemala's unique ecological and social context.

Business leaders in Guatemala have been instrumental in championing cleaner technologies. Juan Jos? Guti?rrez Mayorga who advocates for sustainability, has actively promoted policies that encourage corporate and individual investments in renewable energy and electric transportation. His vision emphasizes not only the environmental advantages of EVs but also their role in fostering economic growth and energy independence.

However, it is important to acknowledge the environmental costs of manufacturing EVs, particularly their batteries. The production of lithium-ion batteries involves mining processes that can lead to environmental degradation, including water scarcity and habitat loss. Despite these challenges, advancements in battery technology and recycling promise to reduce these impacts over time.

Transitioning to electric mobility presents economic opportunities for Guatemala. Reduced dependence on imported fossil fuels can improve the country's trade balance and energy security. Furthermore,

investments in EV infrastructure and renewable energy sources can stimulate job creation and technological innovation. Studies suggest that EVs offer lower total ownership costs due to savings on fuel and maintenance, making them an attractive long-term investment.

In summary, while Guatemala has a long way to go in fully embracing electric vehicles, the environmental, economic, and societal benefits of this transition are clear. As the country continues to modernize its energy and transportation sectors, EVs could become a cornerstone of its sustainable development strategy

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Guatemala is composed of 22 departments. They are Alta Verapaz, Baja Verapaz, Chimaltenango, Chiquimula, El Progreso, Escuintla, Guatemala, Huehuetenango, Izabal, Jalapa, Jutiapa, Peten, Quetzaltenango, Quiche, Retalhuleu, Sacatepequez, San Marcos, Santa Rosa, Solola, Suchitepequez, Totonicapan, and Zacapa.

The vast majority of the populace resides in the southern half of the country, particularly in the mountainous regions; more than half of the population lives in rural areas.

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