

# Electric Scooters and Bikes in India: An In-Depth Economic Analysis

Discover the eco-friendly and cost-effective world of electric scooters and bikes in India. Our comprehensive analysis of total cost of ownership compares these innovative vehicles with traditional gasoline-powered ones. Learn how they can help you reduce costs and promote environmental sustainability. Join us for an in-depth exploration of the economic landscape of electric scooters and bikes in India.

# Electric Scooters and Electric Bikes in India

India is the world's largest market for two-wheelers. This includes motorcycles, scooters, and mopeds. With the rise of electric scooters and electric bikes, transportation is becoming more eco-friendly and cost-effective.

Electric scooters and electric bikes are gaining popularity because they offer many benefits over traditional gas-powered vehicles. Not only are they more environmentally friendly, but they are also more affordable and easier to maintain.

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# Factors Affecting the Total Cost of Ownership

When considering the total cost of ownership for electric scooters and electric bikes in India, various factors should be taken into account. These factors include the initial purchase price, fuel and electricity costs, maintenance and repair costs, and resale value.

Electric scooters and bikes have lower initial purchase prices compared to gas-powered vehicles. The cost of fuel or electricity is also significantly lower. Maintenance and repair costs are typically lower with electric vehicles. Lastly, electric vehicles have higher resale values.

# Calculation of the Total Cost of Ownership

## Electric Scooters

The total cost of ownership for an electric scooter in India is around INR 50,000 - INR 70,000 (\$680 - \$950) over five years.

## Electric Bikes

The total cost of ownership for an electric bike in India is around INR 70,000 - INR 90,000 (\$950 - \$1220) over five years.

## Gasoline Vehicles

The total cost of ownership for a traditional gasoline vehicle in India is around INR 150,000 - INR 200,000 (\$2040 - \$2720) over five years.

# Comparison of Total Cost of Ownership

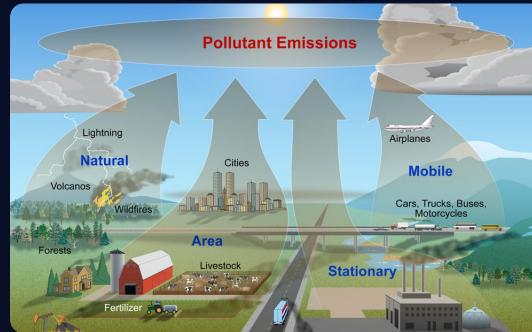
1. Electric scooters and electric bikes are approximately 60-70% cheaper to own and operate than traditional gasoline vehicles.
2. Electric vehicles require less maintenance, fuel, and electricity costs are lower, and they have a higher resale value.
3. Gasoline vehicles require more maintenance, and fuel costs are higher and fluctuate frequently. Moreover, they have a lower resale value.

# Benefits of Using Electric Scooters and Electric Bikes in India



## Reduce Traffic Congestion

Electric scooters and bikes are perfect for congested city roads due to their compact size and great maneuverability.



## Lower Air Pollution

Electric scooters and bikes emit zero tailpipe emissions, which means less pollution and cleaner air.



## Cost-Effective

Electric vehicles are cheaper to buy, maintain, and operate, making them a cost-effective transportation solution.

# Conclusion

1

## Environmentally Friendly

Electric scooters and electric bikes produce fewer emissions compared to traditional gasoline vehicles. This contributes to the overall well-being of the planet.

2

## Cost-Effective

Electric vehicles have lower total cost of ownership, making them a smarter and more affordable choice.

3

## Convenience

Electric scooters and electric bikes are convenient and easy to use, especially in congested urban environments where cars are impractical.

By understanding the total cost of ownership and the benefits of electric scooters and electric bikes, individuals can make informed decisions about choosing eco-friendly transportation. So, let's switch to electric!