

“ELECTRICAL CAR vs PETROL CAR”

A Project Report Submitted in the Partial Fulfillment of the degree of

BACHELOR OF BUSINESS ADMINISTRATION (MARKETING AND AUTOMOBILE MANAGEMENT)

Submitted by

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IN

**BBA MARKETING AND AUTOMOBILES MANAGEMENT
SCHOOL OF BUSINESS**

**Under the Supervision of
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Management Faculty,
Galgotias University**



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SCHOOL OF BUSINESS
BONAFIDE CERTIFICATE

Certified that this project report “**Electrical Car Vs Petrol Car**” is the bonafide work of “**ALI ARSALAAN HUSSAIN**” who carried out the project work under my supervision.

Signature of the Dean of School

DEAN OF SCHOOL
SCHOOL OF BUSINESS

Signature of the Supervisor

Name: **Prof. NEHA DUBEY**
SUPERVISOR
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Approval Sheet

This report entitled Electrical Car Vs Petrol Car by ALI ARSALAAN HUSSAIN is approved for the degree of Bachelor of Business Administration (Marketing and Automobile Management)

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Statement of Project Report Preparation

1. Thesis title: **Electrical Car Vs Petrol Car**
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3. Project Supervisor was referred to for preparing the report.
4. Specifications regarding thesis format have been closely followed.
5. The contents of the thesis have been organized based on the guidelines.
6. The report has been prepared without resorting to plagiarism.
7. All sources used have been cited appropriately.
8. The report has not been submitted elsewhere for a degree.

(Signature of the student)

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ELECTRICAL CAR VS PETROL CAR



INTRODUCTION TO PETROL CARS

Thanks to numerous emissions associated legislation, petrol vehicles now advantage from more suitable gas-saving technology and advanced aerodynamics. Other blessings of petrol vehicles consist of the reality that petrol has a tendency to be inexpensive to buy on the pumps, and the engines are normally quieter than diesel alternatives. With the improved gas financial system cutting-edge petrol-powered vehicles are offering, it begs the question: which of them are the maximum low in cost? We're now no longer going to consist of hybrids of any kind. So, we have got compiled a listing of the maximum low in cost petrol vehicles presently to be had at the used vehicle market.

OUR TOP PICKS

- Fiat 500
- Citroën C1 / Toyota AYGO / Peugeot 108
- Volkswagen up! / Skoda Citigo / Seat Mii
- Peugeot 208
- Ford Fiesta
- Toyota Yaris
- Nissan Micra
- Vauxhall Astra
- Mazda2
- Audi A1

PROS OF PETROL CARS

- They include a cost-effective charge tag
- Petrol engines are less complicated to track and track-up
- They provide higher agility – acceleration and speed – than EVs because engines ultimate longer than electric powered motors, petrol automobiles normally have an extended provider life.

CONS OF PETROL CARS

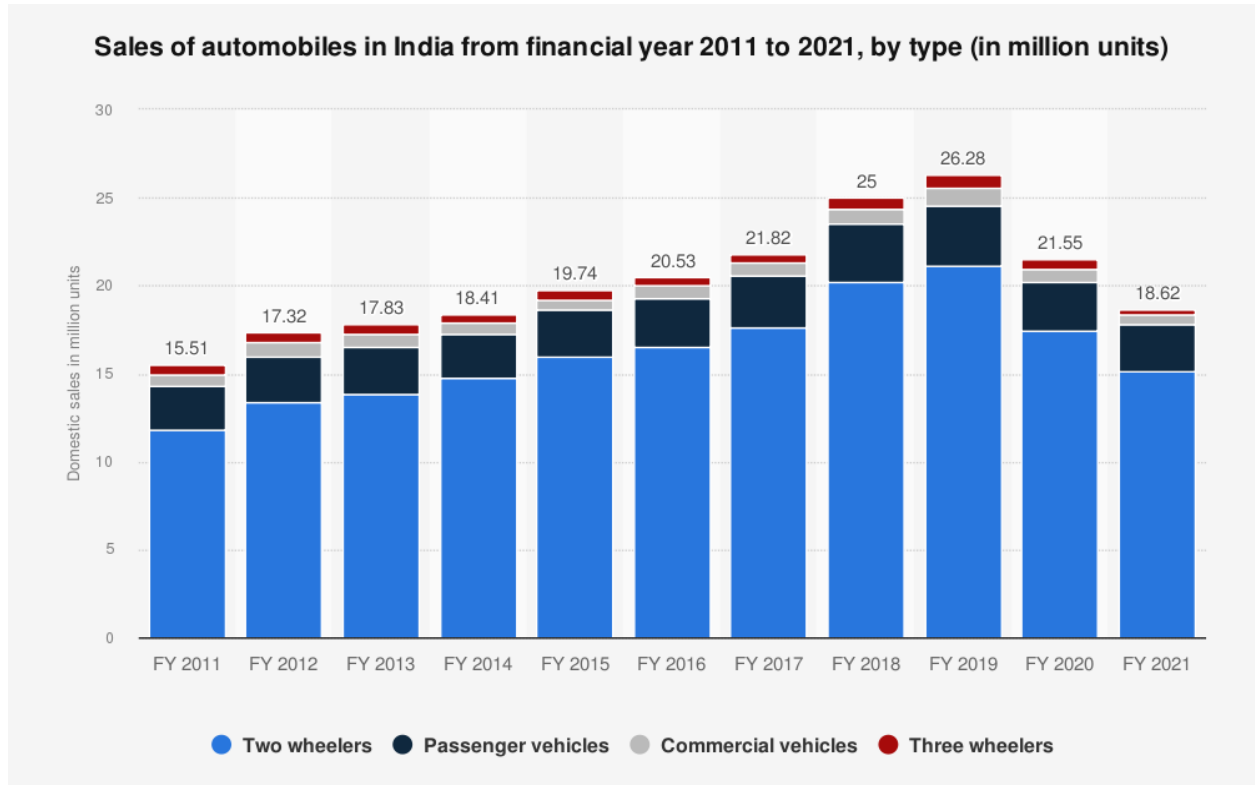
- They devour fuel which results in overwhelming volumes of CO2 emissions, as a result polluting the environment.

- Despite being low-priced to purchase, petrol vehicles are normal heavy at the wallet because of excessive gas fees and habitual preservation costs.

ELECTRIC CARS VS PETROL CARS: AT A GLANCE

Point of comparison	Electric cars	Petrol cars
Buying cost	Expensive	Cheaper than EVs
Maintenance cost	Low	High
CO2 emissions	Close to zero	High
Range	Higher range in the city than highways	Higher range in the highways than city roads
Fuel costs	Low	High

SALES OF AUTOMOBILE IN INDIA



EFFECTS OF CAR POLLUTANTS ON THE ENVIRONMENT



Car pollution reason on the spot and long-time period results at the surroundings. Car exhausts emit a extensive variety of gases and strong matter, inflicting international warming, acid rain, and harming the surroundings and human health. Engine noise and gas spills additionally reason pollutants. Cars, vehicles and different kinds of transportation are the unmarried biggest contributor to air pollutants within side the United States; however, automobile proprietors can lessen their vehicle's results at the surroundings.

Global Warming

Car pollutants are one of the most important reasons of world warming. Cars and vehicles emit carbon dioxide and different greenhouse gases, which make a contribution one-5th of the United States' general international warming pollutants. Greenhouse gases entice warmness within side the atmosphere, which reasons global temperatures to upward push. Without greenhouse gases, the Earth could be protected in ice, however burning immoderate quantities of fossil fuels, consisting of gas and diesel, has precipitated a growth of 0.6 ranges Celsius, or 1 diploma F, in international temperatures considering that pre-business times, and this could preserve to upward push over the approaching decades. Warmer international temperatures have an effect on farming, wildlife, sea stages and herbal landscapes.

Air, Soil and Water

The outcomes of automobile pollutants are widespread, affecting air, soil and water quality. Nitrous oxide contributes to the depletion of the ozone layer, which shields the Earth from dangerous ultraviolet radiation from the sun. Sulfur dioxide and nitrogen dioxide blend with rainwater to create acid rain, which damages crops, forests and different plants and buildings. Oil and gas spills from motors and vehicles seep into the soil close to highways, and discarded gas and particulates from automobile emissions contaminate lakes, rivers and wet lands.

Human Health

Particulate matter, hydrocarbons, carbon monoxide and different vehicle pollution damage human fitness. Diesel engines emit excessive tiers of particulate matter, that's airborne debris of soot and metal. These motive pores and skin and eye infection and allergies, and really satisfactory debris motel deep in lungs, in which they motive respiration problems. Hydrocarbons react with nitrogen dioxide and daylight and shape ozone, that's useful withinside the higher surroundings however dangerous at floor level. Ozone inflames lungs, inflicting chest pains and coughing and making it tough to breathe. Carbon monoxide, every other exhaust gas, is especially risky to babies and those affected by coronary heart disorder as it interferes with the blood's capacity to move oxygen. Other vehicle pollution that damages human fitness consist of sulfur dioxide, benzene and formaldehyde. Noise from automobiles is likewise dangerous, unfavorable listening to and inflicting mental ill-fitness.



REDUCING CAR POLLUTION



There are numerous approaches that automobile and truck proprietors can lessen the consequences of automobile pollution at the surroundings. Old and poorly maintained automobiles motive maximum pollutants from motors, however electric, hybrid and different clean, gas-green motors have a discounted impact. When shopping for a brand new automobile, test the gas financial system and surroundings label. High scores imply low pollutants levels. Maximize gas financial system with the aid of using casting off all unneeded items, which includes roof racks, and using steadily, in preference to accelerating fast and braking hard. Keep your automobile well-maintained, with normal tune-ups and tire checks, and go away the auto at domestic every time you can. Walk, motorcycle or use public transportation while possible.

Small changes to your driving habits can make a big difference.

- Avoid idling. Switch your engine off if you're going to be parked for a while. This may even assist you to apply much less gas, saving money.
- Drop your speed. Slower, steadier using will assist store gas and decrease emissions.
- Avoid brief journeys. Try combining numerous shorter journeys or recall taking walks or cycling. Both of for you to assist hold you active, lessen air pollutants and decrease put on and tear in your vehicle.
- Taking care of your vehicle may even assist lessen the way it impacts air quality. It have to additionally imply your vehicle lasts longer and is much less vulnerable to breakdowns.
- Get your vehicle serviced regularly, this have to hold the entirety operating as correctly because it have to.
- Keep your tyres pumped up.

INTRODUCTION TO ELECTRIC CARS

An electric powered automobile, battery electric powered automobile, or all-electric powered automobile is an vehicle this is propelled via way of means of one or extra electric powered motors, the usage of handiest power saved in batteries. Compared to inner combustion engine (ICE) motors, electric powered vehicles are quieter, don't have any exhaust emissions, and decrease emissions overall. In the USA and the European Union, as of 2020, the overall price of possession of new electric powered motors is inexpensive than that of equal ICE vehicles, because of decrease fueling and upkeep costs. Charging an electric powered automobile may be executed at a lot of charging stations; those charging stations may be established in each home and public areas.

Worldwide, 6.6 million plug-in electric powered motors had been offered in 2021, extra than doubling 2020 income, and attaining a marketplace percentage of 9% of the worldwide new automobile marketplace. All-electric powered motors represented 71% of plug-in automobile income in 2021. As of December 2021, there had been sixteen million plug-in electric powered motors had been at the world's roads. Many nations have hooked up authorities incentives for plug-in electric powered vehicles, tax credits, subsidies, and different non-economic incentives even as numerous nations have legislated to phase-out income of fossil gasoline motors, to lessen air pollutants and restriction weather change.

The Tesla Model three have become the world's all-time best-promoting electric powered automobile in early 2020, and in June 2021, have become the primary electric powered automobile to by skip 1 million worldwide sales. Earlier fashions with significant adoption consist of the Japanese Mitsubishi i-MiEV and the Nissan Leaf.

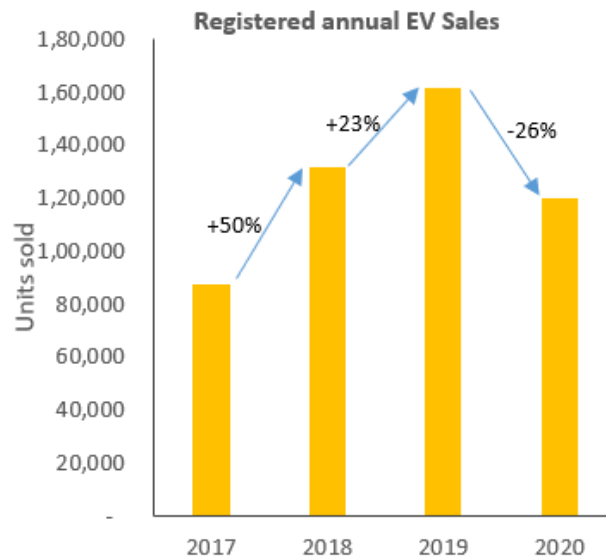
PROS OF ELECTRIC CARS

- They feel lighter to drive.
- You can install EV charging units in your home garage to recharge your electric car instead of going to a gas station.
- They help reduce your carbon footprint as they do not emit harmful CO2 emissions.
- Since EVs have fewer mechanical parts, they don't require maintenance and servicing as frequently as needed for petrol cars.
- Because electricity is cheaper than fuel, the running costs of EVs are less compared to petrol cars.
- They are also incredibly fast and make less noise.
- You can enjoy certain tax benefits if you buy an EV using a personal loan.

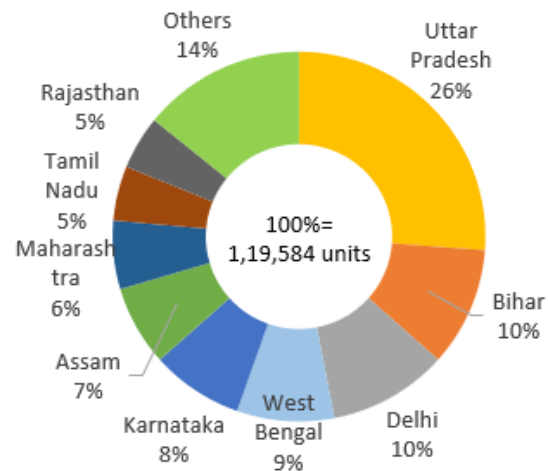
CONS OF ELECTRIC CARS

- The range of EVs, or the distance a car can cover before needing a recharge, can be a problem. They can only cover a few km daily.
- Installation of Level 2 charging stations at home can be an added expense.
- There is less service availability for EVs than petrol cars.
- EV battery replacement costs can be hard on the pocket. However, a battery has a pretty long shelf life of 10 years.

SALES OF ELECTRIC CARS IN INDIA



**Region-wise registered EV sales -
Jan-Dec 2020**



Negative Effects of Having EV Vehicle

Lithium and other rare metals — where do they come from and at what cost?



Electric motors want treasured metals for his or her batteries. At first, hybrids used Ni-Mh batteries, however aggressive electric powered motors depend on the Li-Ion technology. The luxurious component is referred to as Lithium, and it's miles getting greater luxurious those days. However, in which does it come from?

According to a 2015 US Geological Survey, Australia is the world's largest provider of lithium. It is accompanied with the aid of using Chile, Argentina, China, and Zimbabwe withinside the pinnacle five.

Just like oil, lithium is a finite resource, and its miles turning into extra luxurious due to the needs made via way of means of automakers. Until something higher comes along, lithium ought to turn out to be extraordinarily costly. At the identical time, electric powered vehicles will even have a larger charge due to the price of lithium.

For exemplification purposes, the electrical motor desires neodymium and praseodymium, and "a hint of" dysprosium. The antique batteries in Ni-Mh hybrid vehicles required lanthanum; however, the new ones nevertheless want a number of those valuable uncommon earth minerals. They are mined in situations that aren't optimal, and their call for hurts the environment.

Battery recycling — is everybody ready for it?

While we discover the truth that Lithium recycling centers do now no longer exist at the size required while all of these electric powered automobiles may be parted out and meet the crusher, we do recognize why. The global does now no longer have a large marketplace for electric powered automobiles yet, and the traditional ones do now no longer get recycled well within side the first place. So do now no longer throw that stone simply yet.

Toyota has a set application for its antique batteries, which includes giving a brand-new existence for the devices that used to take a seat down in Prius models. The cycle can nevertheless be stepped forward to make those automobiles in reality eco-friendly.

Goodbye easy fixes and jump-starts

With a traditional vehicle, matters may be constant in maximum workshops at affordable rates, relying on how awful the harm was. No self-governing carrier unit is aware of a way to restore electric powered cars of car grade, and maximum do now no longer have the equipment had to paintings on the one's automobiles. So, rather of having your vehicle constant at a workshop, they may with courtesy ship you off to the provider. If the stated provider has been to overcharge you, hard luck.



No Adventures into Remote Areas for You

While a few human beings have controlled to power electric powered cars from one factor to another, embarking on interesting adventures in a few cases, not one of the journeys has focused far flung areas.

We do now no longer assume that to occur too soon, if ever, as it will take a few years for electric powered vehicles to achieve a “comfortable” variety on an unmarried charge. It might need to deliver a person the extent of agree with within side the machine’s capacity to pass tough terrain, throughout great distances, without turning into a totally highly-priced wooded area decoration. Pun intended.

In different words, electric powered vehicles will now no longer convey the entire demise of the traditional vehicle. Not in far flung areas, and in all likelihood now no longer in locations in which the weather is unfriendly. The identical applies to Hydrogen Fuel Cell Vehicles, which additionally require a complicated fueling gadget and procedure.



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