



ELECTRIC ROAD SYSTEMS

a SOLUTION FOR THE FUTURE

An electric vehicle (EV)
is a motor vehicle
whose propulsion is
powered fully or
mostly by electricity.



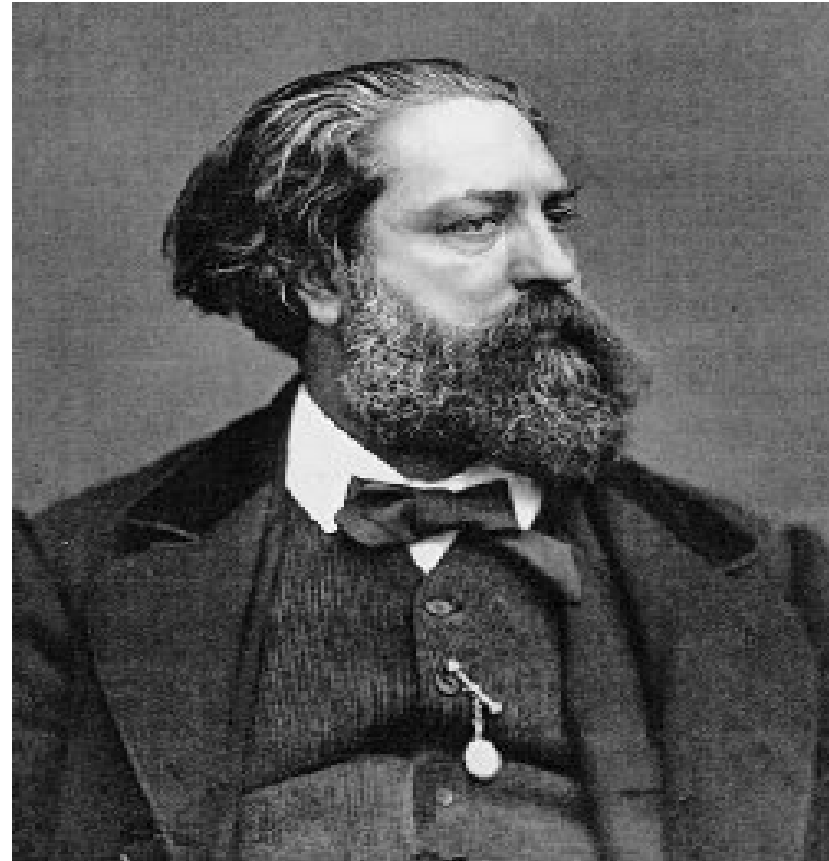
ELECTRICAL ROADS

- An electrical roads or e-road is a road which supplies electric power to vehicles travelling on it ,either through trolley wires above the road or through conductor rails embedded in its surface
- To eliminate fossil fuel road transportation

ELECTRICAL VEHICLES

THE WORLD'S THE FIRST
ELECTRICAL VEHICLE
PRESENTED BY FRENCHMAN
GUSTAVE

He was born on 1839 -1902



FIRST LAUNCH OF ELECTRICAL ROAD

- The first electrified road for charging vehicles opened in sweden,specifically a 2-kilometers strip on the E16 motorway near the city of **gavle,in central sweden**

- ✓ REDUCE EMISSIONS
- ✓ FUEL ECONOMY
- ✓ EASY AVAILABILITY
- ✓ LOW MAINTAINANCE
- ✓ Low cost



The Benefits of Electric Cars

DISADVANTAGES OF FOSSIL FUEL

- GREEN HOUSE EFFECT
- INCREASE IN OIL PRICES
- DEPLETION OF OZONE LAYER
- AIR POLLUTION

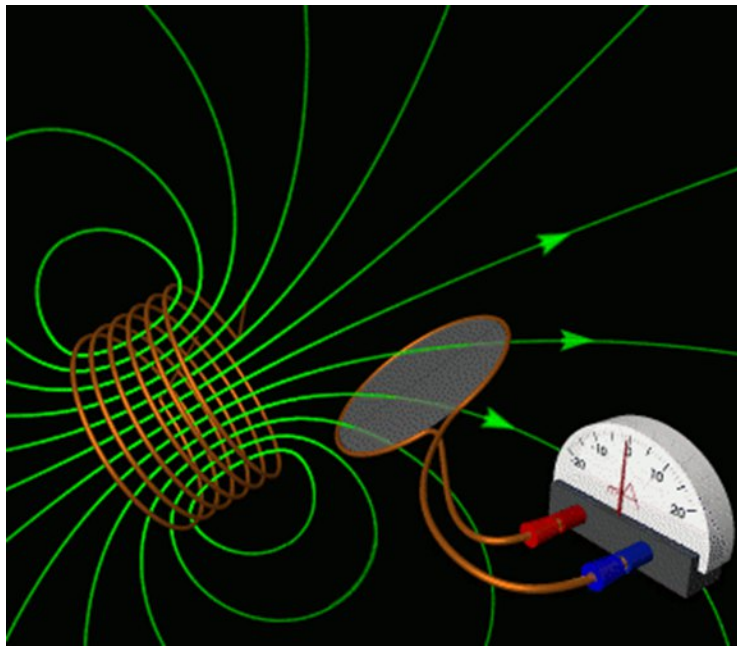


THE FUTURE OF ELECTRICAL ROADS

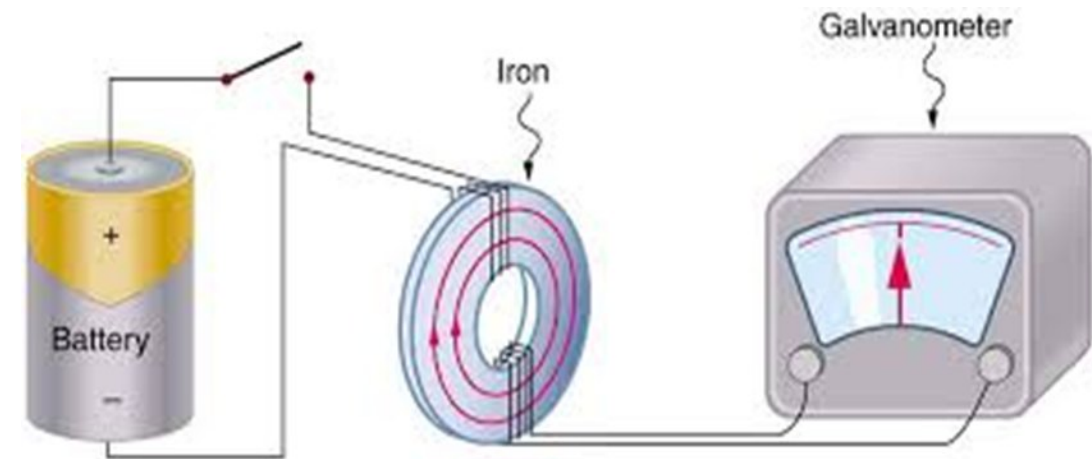
- Technological Advancements: Development of more efficient and cost-effective wireless power transfer technologies.
- Policy and Regulation: Government support and standardization efforts to promote the adoption of electrical roads.
- Integration with Autonomous Vehicles: Combining electrical roads with autonomous driving technology to create more efficient and sustainable transportation systems.

HOW IS IT WORK ?

ITS WORKS ON THE ELECTRO MAGNETIC INDUCTION FIELD ,



WHENEVER COIL CONNECTED TO THE BATTERY THEN CURRENT IS PRODUCED IN THE COIL AND THE GENERATE MAGNETIC FIELD TO TRANSFER THE ANOTHER COIL , IN THEY GALVANOMETER DISPLAY THE READINGS



They are explained in two methodes

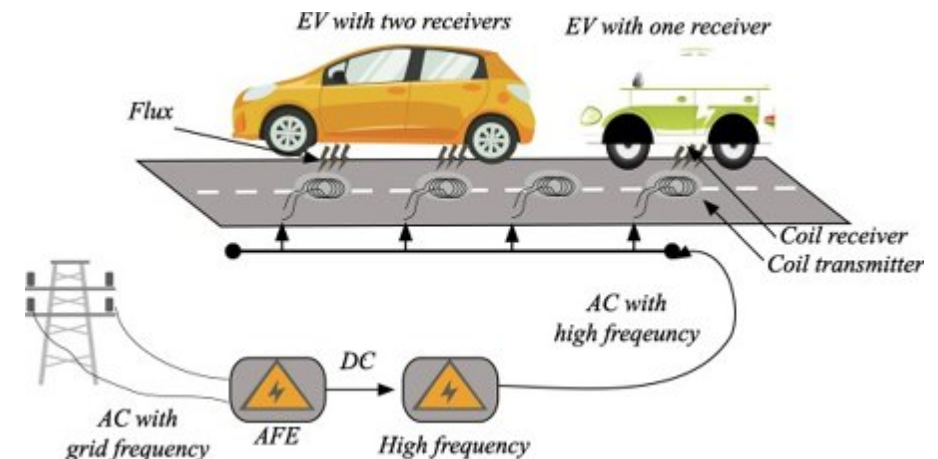
i. Statically

ii. dinamically

- In statically method they don't move any way .
- for example: transformer



- In dinamically they can move any way because of more transformers by using electro magnetic induction



conclusion

Lets create a sustainable way for our future generations.

We will not stop until every vehicle is on the electrical road.

THANK YOU.....