

# The world without Internal- Combustion Engine

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Internal combustion engines are, basically heat engines which are designed for fluid flow circuit, on the last stage of life. Widespread adoption of electric vehicles has changed the scenario to a great extent and many countries have imposed bans on the internal combustion engines. Many countries like Mexico, Madrid and Norway etc are claiming that they are going to discontinue conventional vehicles by 2025 and preferring electric vehicles as mainstream transportation medium. The major changes due to implementation of electric vehicles are as discussed:

- 1. Economic impact:** This shifting of automobile industry to electric vehicles will have an impact on the economic conditions of the countries. First of all, this shifting will definitely influence the foreign oil burden on various countries which will further lead to cost reduction. Moreover, regarding this shifting trade balance of countries will also be affected. Implementation of electric vehicles and cars will affect the government revenue and the infrastructure of the countries in long run. Global warming and increased pollution has also played a major role towards the use of electric vehicles and abolition of internal combustion engines. Internal combustion engines produce unhealthy emissions in form of carbon monoxides, nitrogen oxides etc. which is proposed to be reduced by the application of electric vehicles. This shift also will help in the increment of overall consumer spending due to less costly electric vehicles.
- 2. Impact on other industries:** There are many industries which are related to the internal combustion engines like gasoline, maintenance based industries and spare parts etc. Due to stoppage of internal combustion engines in many countries, first of all import of gasoline will be influenced and demand of gasoline will be decreased. Maintenance based industries which are directly involved in the products related to internal combustion engines will also be affected due to this shift. Furthermore, there is a huge demand of imported spare parts, so demand of spare parts will change accordingly as per the requirements of electric vehicle industry. Hence, supply of electric motors and electric battery will be increased and industries like electric batteries and braking system regeneration will be empowered.
- 3. Impact on Human Resource Industry:** Due to disruption of internal combustion engines, human resource industry will have to change significantly. The new technology will provide high quality jobs to the learners. Research and development industry will be highly impacted with this major shift. However, requirement of highly skilled engineers

and researcher will increase. It can be evident that these changes will increase the jobs in automobile industry and will produce the requirement of trained personnel to meet the competitive advantage.

4. **Domino's effect:** The chain reaction for the electric vehicles is quite surprising as consumers in many countries have start adoption of electric vehicles. Due to lesser cost, acceptance of electric cars and vehicles has changed significantly. China, India and European nations are announced the removal of the internal combustion engines.

Hence, from the above discussion it is clear that to implement the changes in form of electric vehicles, nations needs to opt forward looking approach.