**CO2 EMISSIONS FROM VEHICLES: A REVIEW**

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**ABSTRACT**

Study the literature of CO2 emissions from vehicles makes a significant contribution to the CO2 emissions from vehicles. The increasing concerns climate change and environmental sustainability have directed significant attention towards the reduction of CO2 emissions from vehicles. This study conducts a comprehensive literature review to analyze current research trends, methodologies, new research techniques and findings related to vehicle CO2 emissions. It aims to identify the existing literature of CO2 emission and gap identify to guide for future research efforts.

**Keywords:** CO2 Emissions, Vehicles, Environmental impact, climate change

1. **INTRODUCTION**

The CO2 emission is biggest issue for climate changes and atmospheric changes, climate disturbance, increasing greenhouse gas emission overall last four decades have burned rising concern about global warming. Automobile industries are main role to emit the CO2 emission from cars, heavy trucks, autorickshaw etc. coming decade as the global population increases, income rise, and more people can afford cars and other transport services therefore, literature gap are fulfilled by government services or policy can implementation are curial role to reduced the CO2 emission from vehicles.

1. **METHODOLOGY**

This methodology based on CO2 emission from vehicle using literature of CO2 emission from vehicles or automobile industries.

1. **LITERATURE REVIEW**

**Abdullah H. AI Nefaie (2022)** Conclude that, development of intelligence system prediction models on artificial intelligence for vehicle C02 emission. High level of CO2 emission contributes to the develop of global problems, such as climate change and global warming. predicting CO2 emission is very important for future values of CO2 emission.

**Stephnie martinaz (2022)** Conclude that, the automobile industry as well as the emission gasses that are released from the manufacturing processes of a vehicle were used to review and data collect and information this project research. The emission gasses that are released among manufacturing process of automobiles, the type of model, and the specification fuels and different factors when it came to determine the effects of that it took on the environmental as well as the health hazards.

**Pen Zhang (2023)** Conclude that, problem of carbon emission for automobile industry are continuously increasing decade to decade carbon emissions. Study the policy implications are very important factor to reduced the CO2 emission from automobile industries.

**Chaira Lodi (2018)** Conclude that,different car models providing PV roof on top of the car and solar radiation received by PV roof and real-word of driving condition. Main focus of this study conventional combustion engine powered passenger car eco- innovation scheme identifies of real-world saving CO2 by PV roof.

**Lucian Loan Dulau (2023)** Conclude that, continuously increasing CO2 emission from conventional car engine compared to battery electric vehicles (BEVs). Hydrogen fuel cell vehicle less CO2 emission compared to conventional engine, battery electric vehicles so adopting (HFCVs) hydrogen fuel vehicles technology to reduced CO2 emission level in world.

**Zhenyu Li (2019)** Conclude that, rapid growth of CO2 emission from passenger cars in China high uses frequency of passenger car. were use daily communities, tour, relative and friends visiting and shopping with long average driving travel high utilization this causes and increasing continuously CO2 emission level.

**Julius Andersson (2017)** Conclude that, which is existing demand of cars and other transportation. Policy of carbon taxes are implication are very important this finding suggests policy evaluation of carbon taxes or adopting hydrogen fuel cell vehicles.

**William Todts (2018)** Conclude that, CO2 emission again raising, why is progress so painfully slow. Government is unwilling to insatiable demand for mobility and car ownership. The car industry looks upon the CO2 emission regulation as something to be circumvented by all possible means.

**Leon S. Robertson (2019)** in 2000 to 2014 onward raising CO2 emission continuously, we can find co relation of the temperature level and CO2 emission. Potential effect of global warming on vehicle travel analyses of the relation of vehicle weight, fatality risk, vehicles scarping rate, fuel economy. Improvement in fuel economy and reduce emission of CO2 base on required hybrid or electric technology adopting.

**Namita Sigh (2021)** India growing population level and also increase economy, passenger car, which would increasing transportation CO2 emission therefore, suitable strategies are recommended to reduced the CO2 level from automobile industries.

**Mr. S Sundar (2022)** Indian governmentadopting of electric autorickshaw will substantially reduce the CO2 emission. The current policy support reducing CO2 emission from conventional engine of autorickshaws. However, push demand of adopting electric auto and cars.

1. **RESULTS AND DISCUSSION**

In this Section results and discussion of the study is written. They may also be broken into subsets with short, revealing captions. This section should be typed in character size 10pt Times New Roman.

Table 4.1 Study the literature

|  |  |  |  |
| --- | --- | --- | --- |
| Author Name | Year | Country | Reference No |
| Abdullah H. AI Nefaie | 2022 | Saudi Arabia | 1 |
| Stephnie martinaz | 2022 | United State of America | 9 |
| Pen Zhang | 2023 | China | 8 |
| Chaira Lodi | 2018 | Europe | 2 |
| Lucian Loan Dulau | 2023 | Romania | 5 |
| Zhenyu Li | 2019 | China | 11 |
| Julius Andersson | 2017 | England | 3 |
| William Todts | 2018 | Europe | 10 |
| Leon S. Robertson | 2019 | United State of America | 4 |
| Namita Sigh | 2021 | India | 7 |
| Mr. S Sundar | 2022 | India | 6 |

1. **CONCLUSION**

Study the literature of CO2 emissions from vehicles makes a significant contribution to the CO2 emissions from vehicles. The increasing concerns climate change and Impact on climate. literature gap is fulfilled by government services or policy can implementation are curial role to reduce the CO2 emission from vehicles.

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