Vehicle Air Pollution In China

Introduction

In China, the motor vehicle population has increased since 2009. Recently, China’s air pollution has rapidly grown since the number of cars and energy consumption. In large cities in China, the development of the vehicle industry as well as the vehicle emissions has become severe. The vehicle emission is an important cause of air pollution in China's cities. The major characteristics that result from vehicle air pollution in china, include the environment, the effects on humans, and levels of population exposure. Many of these causes are caused by people, whether intentionally or unintentionally. Even though there are a number of major causes that are caused by vehicle air pollution, these issues will undoubtedly remain high for a long time to come.

Methodology

This is a methodological study that involves the usage of second-hand data. The methodology has involved searching on the internet using journal databases and specific-subject websites for various literatures on vehicle air pollution in China. The focus was on periodical reports, graph reports, but also key stakeholder reports and journal articles on the direct impact of vehicle air pollution. These were chosen through a sampling technique, the inclusion criteria for the articles chosen that they first had to deal with vehicle air pollution in china; and second, they had to be addressing a topic related to any of the three objectives of this paper

Results/Analysis

1. Environment

As already noted above, vehicle air pollution is a significant problem in China’s environment. The impacts of vehicle air pollution can be understood using two main categories: air and land. The environmental impact of vehicle exhaust creates and emits a wide range of gases and fuel spills that cause global warming.

1.1 Air

The effects of car pollution have affected the air quality greatly. The air pollution that is associated with vehicles in China has rapidly begun to receive attention from the public. This attention is due to the vehicle emissions that have increased by on-road vehicles, the slow improvement of fuel, as well as a limited amount of efficient highway systems.

1.2 Land

In China the effects of vehicle air pollution has caused some short term hazards for the land. Effects on Humans

The effects of vehicle pollution in China for that matter are suffered by humans who are feeling these affects directly or indirectly. These effects can be viewed along two significant pathways: which is health, and death.

2.1 Health

The effects of vehicle air pollution on health in China is very critical. The research conducted about vehicle pollution over the past several decades has identified several different health concerns. These health concerns include respiratory, neurological, cardiac systems, as well as several types of cancer. (Walsh, et. al., 2003 p.19).

2.2 Immediate Deaths

The vehicle emissions has resulted in being a cause of concern that affects China's health. In fact, millions of people in China have been killed due to the result of car emissions being polluted. Research has shown, "in 2010, more than 2.1 million people have died prematurely from air pollution, mostly from the minute particles of diesel soot and gasses emitted from cars." (Vidal, 2012, p.1).

3.0. Transportation

Now, the transportation infrastructure has not been able to keep up with China's increase of vehicles. In Chinese cities, cars are a primary source that accounts to 20-40 percent of particle pollution. This has led to China organizing a training that consists of four categories: transport emissions, reduction strategies, transport policy health impact analysis, and ship emissions control and shared mobility. (Rubnitz, 2018).

3.1 Road

China's vehicle industry has expanded by constructing their own road network. This means that China's road network uses the connection of residential and commercial areas that easily causes congested traffic. For example, Hong Kong has begun to reduce air pollution in mainland china. Hong Kong has achieved a sustainable development of urban traffic that is crucial to reducing reliance on vehicles, traffic congestion, and short travel.

Conclusion

In Conclusion, the vehicle air pollution in China has grown tremendously and has become a very serious problem. The vehicle emissions have impacted the environment which includes the air, and land, but also shows the effects of human health. With the frequent number of motor vehicles in Chinese cities, China should start looking at some solutions to address the cause of motor vehicles polluting the air.

References

1. Rubnitz, T. (2018, April 13). Reducing China's Urban Air Pollution with Transport Solutions at Beijing Workshop. Retrieved from https://wrirosscities.org/news/reducing-china's-urban-air-pollution-transport-solutions-beijing-workshop

2. Vidal, J. (2012, December 17). Pollution from car emissions killing millions in China and India. Retrieved from https://www.theguardian.com/environment/2012/dec/17/pollution-car-emissions-deaths-china-india
3. Wang, J., Wu, Q., Liu, J., Yang, H., Yin, M., Chen, S., Guo, P., Ren, J., Luo, X., Linghu, W., & Huang, Q. (2019). Vehicle emission and atmospheric pollution in China: problems, progress, and prospects. PeerJ, 7, e6932. https://doi.org/10.7717/peerj.6932
4. Wash, M. P. (2004). Read 'Urbanization, Energy, and Air Pollution in China: The Challenges Ahead: Proceedings of a Symposium' at NAP.edu. Retrieved February 13, 2020, from https://www.nap.edu/read/11192/chapter/3
5. Yan, Y., & Chamberlain, B. (2016). AIR POLLUTION IN CHINA: A STUDY OF PUBLIC PERCEPTION. https://core.ac.uk/download/pdf/33382026.pdf
6. Zhou, Rui, Wang, Shanshan, Shi, Chanzhen, Wang, Wenxin, Zhao, Heng, Liu, Rui, Zhang, Yinping. (2014). Study on the Traffic Air Pollution inside and outside a Road Tunnel in Shanghai, China. PLoS ONE, 9(11), E112195.