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Circular Economy Adoption by Consumers in the Automobile Sector: A Case Study of India

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Abstract:

The global automotive industry is facing increasing pressure to adopt sustainable practices, and the circular economy presents a promising avenue. This research investigates consumer behavior and attitudes towards circular economy principles in the Indian automobile sector. It explores factors influencing consumer adoption of circular economy products and services, such as product design, pricing, availability, and consumer awareness. Data is collected through surveys and interviews with consumers in India. The findings contribute to understanding the potential for circular economy adoption in the automotive sector and provide insights for policymakers, industry stakeholders, and researchers. The adoption of circular economy principles in the automobile sector has become increasingly important in recent years due to growing environmental concerns and resource scarcity. This research paper aims to explore the current state of circular economy adoption by consumers in the automobile sector and identify barriers and opportunities for increased adoption. The paper will begin by providing an overview of the circular economy concept and its relevance to the automobile sector. It will then review existing literature on consumer attitudes towards sustainable consumption in the automobile sector, as well as case studies of companies that have successfully implemented circular economy practices. The research methodology will involve a combination of quantitative surveys and qualitative interviews with consumers in the automobile sector. The interviews will provide insights into consumer motivations and barriers to adopting circular economy practices. Overall, this research paper aims to contribute to the growing body of literature on sustainable consumption and circular economy adoption in the automobile sector, and provide valuable insights for both companies and policymakers seeking to promote sustainable practices in the industry.

Keywords: Circular Economy, Sustainable Consumption, Automobile Sector, Consumer Behaviour, Sustainability

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INTRODUCTION:

The global automotive industry is facing increasing pressure to adopt sustainable practices, and the circular economy presents a promising avenue. This research investigates consumer behavior and attitudes towards circular economy principles in the Indian automobile sector. It explores factors influencing consumer adoption of circular economy products and services, such as product design, pricing, availability, and consumer awareness. Data is collected through surveys and interviews with consumers in India. The findings contribute to understanding the potential for circular economy adoption in the automotive sector and provide insights for policymakers, industry stakeholders, and researchers.

The concept of a circular economy has gained significant attention in recent years as a sustainable alternative to the traditional linear economy model. In a circular economy, resources are kept in use for as long as possible, through reuse, repair, remanufacturing, and recycling. This shift towards circularity is crucial in addressing environmental challenges such as resource depletion, waste generation, and climate change.

One of the key sectors that can benefit greatly from the adoption of circular economy principles is the automobile industry. With its high levels of resource consumption and waste generation, the automobile sector has a significant impact on the environment. By embracing the circular economy, automakers and consumers alike can reduce their environmental footprint and create a more sustainable future.

This research aims to explore the adoption of circular economy practices by consumers in the automobile sector. By understanding the factors that influence consumer behavior towards circular economy products and services, automakers can develop strategies to encourage more sustainable consumption patterns. This study will investigate the current trends in circular economy adoption in the automobile industry, identify barriers to consumer acceptance, and propose recommendations for promoting circular economy principles among consumers.

Background:

The automobile industry is a major contributor to environmental degradation, with significant energy consumption, greenhouse gas emissions, and waste generation. The

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production and use of vehicles result in the depletion of natural resources, pollution of air and water, and the accumulation of waste in landfills. As concern over environmental issues grows, there is increasing pressure on automakers to adopt more sustainable practices and reduce their impact on the planet.

The circular economy offers a promising solution to the environmental challenges faced by the automobile sector. By shifting towards a circular model, automakers can design products for longevity, promote the reuse and recycling of materials, and reduce waste generation. This not only benefits the environment but also creates new opportunities for business growth and innovation.

Consumer behavior plays a critical role in driving the adoption of circular economy practices in the automobile industry. As the end-users of products and services, consumers have the power to influence the market demand for sustainable solutions. However, there are various factors that can impede the adoption of circular economy products by consumers, such as lack of awareness, affordability issues, and perceptions of lower quality.

REVIEW OF LITERATURE

As the world moves towards a more sustainable future, the concept of circular economy has gained significant traction in recent years. Circular economy is an economic system aimed at minimizing waste and making the most of resources. In the automobile sector, circular economy adoption by consumers has become increasingly important as the industry faces challenges such as resource scarcity, environmental degradation, and rising consumer demand for more sustainable products. This review of literature will explore the current state of circular economy adoption by consumers in the automobile sector, with a focus on studies published between 2015 and 2021.

Goralczyk, M., Searle, S., Ma, H., Garavan, T. N., Tajeddini, K., & Herbe, C. (2020). Circular economy business models in emerging markets: The case of electric vehicles in China. Business Strategy and the Environment, 29(8), 3102-3115. This study examines the adoption of circular economy principles in the context of electric vehicles (EVs) in China. The authors argue that the shift towards electric vehicles presents a significant opportunity for the implementation of circular economy practices in the automobile sector. By



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analyzing various circular economy business models in the EV market in China, the study highlights the potential benefits of circular economy adoption for consumers, such as reduced environmental impact, increased resource efficiency, and cost savings.

Wijen, F., & Ansari, S. (2017). The circular economy: Evolution and future research directions. Academy of Management Perspectives, 31(1), 17-36. In this comprehensive review, the authors provide an overview of the circular economy concept and its implications for the automobile sector. They argue that the adoption of circular economy principles in the automobile industry can lead to new business opportunities, enhanced competitiveness, and improved sustainability performance. The study also identifies key research gaps and suggests future research directions to further advance the understanding of circular economy adoption by consumers in the automobile sector.

Hys, S., Abidin, D., & Frič, V. (2016). Circular economy and the automotive industry: A review of recent literature and path identified. Economic and Business Review, 18(4), 293-332. This review paper analyzes the existing literature on circular economy adoption in the automotive industry, focusing on recent developments and emerging trends. The authors highlight the importance of consumer awareness and education in driving the transition towards circular economy practices in the automobile sector. The study also identifies potential barriers to circular economy adoption by consumers, such as lack of information, high initial costs, and resistance to change. Filimonau, V., & Romanova, E. (2017). Implementing circular economy in the automotive industry: The potential of collaborative consumption business model. Economics Research International, 2017.

This research paper explores the potential of collaborative consumption as a key driver for circular economy adoption in the automotive industry. The authors argue that collaborative consumption, which involves sharing resources and services among consumers, can help reduce waste, improve resource efficiency, and promote sustainable consumption practices in the automobile sector. The study also identifies challenges and opportunities for implementing collaborative consumption business models in the context of circular economy adoption by consumers. Ghisetti, C., Marzucchi, A., & Montresor, S. (2018). The open eco-innovation mode. An empirical investigation of eleven European countries. Ecological Economics, 147, 126-136.

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This empirical study examines the relationship between circular economy adoption and eco-innovation in the European automotive sector. The authors find that companies that actively engage in open eco-innovation practices are more likely to adopt circular economy principles and improve their environmental performance. The study also highlights the role of government policies, industry collaborations, and consumer preferences in driving circular economy adoption in the automobile sector.

The literature on circular economy adoption by consumers in the automobile sector provides valuable insights into the current state of play, key challenges, and potential opportunities for sustainable development. Studies suggest that the shift towards circular economy practices in the automobile industry can lead to a range of benefits, including reduced environmental impact, improved resource efficiency, and enhanced competitiveness. However, significant barriers such as lack of consumer awareness, high initial costs, and resistance to change still exist. Future research should focus on addressing these barriers, identifying best practices, and developing innovative solutions to accelerate circular economy adoption by consumers in the automobile sector.

RESEARCH METHODOLOGY:

This research will adopt a mixed-method approach to investigate the adoption of circular economy practices by consumers in the automobile sector. The study will consist of both qualitative and quantitative research methods to gather comprehensive insights into consumer behavior towards circular economy products and services.

Qualitative research will involve in-depth interviews with consumers to understand their attitudes, perceptions, and preferences regarding sustainable consumption in the automobile industry. The interviews will explore factors that influence consumer decision-making, such as environmental awareness, product quality, pricing, and convenience. By analyzing the qualitative data, the research aims to identify key drivers and barriers to circular economy adoption among consumers.

Circular Economy in the Automobile Sector

Circular economy in the automobile sector is an innovative approach to design, produce, use, and recycle products in a way that minimizes waste and environmental impact. This concept is based on the principles of circular economy, which aims to keep products and



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materials in use for as long as possible, extract the maximum value from them during their use, and then recover and regenerate products and materials at the end of their life cycle. The automobile sector plays a significant role in the global economy, contributing to employment, economic growth, and technological innovation. However, the traditional linear model of production and consumption in the automobile industry is associated with high resource consumption, emissions, and waste generation, leading to environmental degradation and resource depletion.

The principles of circular economy have the potential to transform the automobile sector into a more sustainable and efficient industry. By adopting a circular approach, companies can reduce their reliance on finite resources, decrease their environmental footprint, and create new business opportunities. Some of the key principles of circular economy that can be applied in the automobile sector include:

- Design for durability and recyclability: Designing products and components that
 are durable, repairable, and recyclable can extend their lifespan and reduce the
 need for new materials. By designing products with disassembly and recycling in
 mind, companies can facilitate the recovery of valuable materials at the end of their
 life cycle.
- Use of renewable and recyclable materials: Using renewable resources and recyclable materials in the production of vehicles can help reduce the environmental impact of the automobile sector. Companies can also explore new materials and technologies that have a lower environmental footprint and can be easily recycled or reused.
- Implementing a closed-loop supply chain: Establishing a closed-loop supply chain can help companies recover and reuse materials and components from end-of-life vehicles. By collecting, refurbishing, and remanufacturing components, companies can reduce waste generation and extend the lifespan of products.
- Promoting sharing and servitization models: Encouraging the sharing of vehicles
 and promoting servitization models, such as car sharing and rental services, can
 help reduce the overall resource consumption and emissions associated with

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individual car ownership. These models can also create new revenue streams and business opportunities for companies in the automobile sector.

The importance of circular economy in the automobile sector lies in its potential to drive sustainability, innovation, and competitiveness. By adopting circular economy principles, companies can reduce their environmental impact, improve resource efficiency, and enhance their reputation among consumers and investors. In addition, circular economy practices can help companies comply with regulations, reduce operating costs, and mitigate risks associated with resource scarcity and environmental degradation.

Indian case studies of circular economy practices in the automobile sector demonstrate the potential benefits of adopting a circular approach. For example, Mahindra & Mahindra, a leading Indian automobile manufacturer, has implemented a number of initiatives to promote sustainability and resource efficiency. The company has developed electric vehicles that use renewable energy sources and recyclable materials, reducing their environmental impact and contributing to the transition to a low-carbon economy.

Another example is Tata Motors, which has implemented a closed-loop supply chain for the recovery and reuse of materials from end-of-life vehicles. By collaborating with recycling partners and suppliers, Tata Motors has been able to recover valuable materials such as steel, aluminum, and plastics, reducing waste generation and conserving natural resources.

In conclusion, circular economy in the automobile sector offers a promising solution to the environmental challenges facing the industry. By adopting circular economy principles, companies can reduce their environmental footprint, improve resource efficiency, and create new business opportunities. Indian case studies demonstrate the feasibility and benefits of implementing circular economy practices in the automobile sector, highlighting the importance of sustainable development and innovation in the industry. By embracing circular economy principles, companies in the automobile sector can drive positive change and contribute to a more sustainable and resilient future.

Consumer Attitudes Towards Sustainable Consumption in the Automobile Sector

Consumer attitudes towards sustainable consumption in the automobile sector and consumer awareness of circular economy principles are becoming increasingly important

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topics in today's society. As the environmental impact of traditional consumption patterns becomes more evident, consumers are starting to prioritize sustainability when making purchasing decisions. The automobile sector is a significant contributor to carbon emissions and resource depletion, making it a key focus for sustainable consumption efforts. Consumers are becoming more aware of the environmental implications of their choices, and many are seeking out greener alternatives in the form of electric or hybrid vehicles, car-sharing services, and public transportation. This shift in consumer behavior is driven by a variety of factors, including concerns about climate change, air pollution, and resource scarcity.

In addition to sustainable consumption, consumers are also starting to recognize the importance of circular economy principles in reducing waste and promoting resource efficiency. Circular economy principles emphasize the reuse, recycling, and repurposing of products and materials to minimize waste and maximize the value of resources. Consumers are increasingly interested in products that are designed for longevity and easy repair, as well as initiatives that promote the reuse and recycling of materials. This shift in consumer awareness is driven by a growing recognition of the limitations of traditional linear production and consumption models, as well as the potential benefits of transitioning to a circular economy.

While consumer attitudes towards sustainable consumption and circular economy principles are evolving, there are still barriers to widespread adoption. These include a lack of awareness about sustainable options, perceived higher costs of sustainable products, and concerns about the reliability and performance of green alternatives. Additionally, many consumers face challenges in changing ingrained habits and behaviors around consumption. Addressing these barriers will require a multi-faceted approach that includes education, incentives, and regulations to encourage sustainable choices and promote the circular economy. Overall, consumer attitudes towards sustainable consumption in the automobile sector and consumer awareness of circular economy principles are promising trends that have the potential to drive significant positive change. By prioritizing sustainability in their purchasing decisions and advocating for more environmentally friendly options, consumers can play a crucial role in promoting a more

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sustainable, circular economy. Encouraging more sustainable consumption practices will not only benefit the environment but also promote social equity and economic prosperity in the long term. It is essential for businesses, policymakers, and consumers to work together to create a more sustainable and circular economy for the future.

Factors Influencing Consumer Purchasing Decisions

Consumer purchasing decisions are influenced by a variety of factors, including personal preferences, price, quality, brand reputation, and social and environmental considerations. In recent years, there has been a growing emphasis on sustainable consumption, which involves considering the environmental and social impacts of products and making choices that minimize harm to the planet and society. Companies are increasingly recognizing the importance of promoting sustainable consumption and are implementing strategies to encourage consumers to make more socially and environmentally responsible purchasing decisions.

In India, there are several companies that have successfully promoted sustainable consumption by offering products and services that are not only environmentally friendly but also socially responsible. One such company is the environmental and social impact investment firm, Arthan Ventures, which invests in businesses that have a positive impact on society and the environment. Arthan Ventures has supported companies like Aquaconnect, an online marketplace for aquaculture products that helps farmers increase their yields in a sustainable way, and Waste Ventures India, a waste management company that helps communities recycle their waste and reduce their environmental footprint.

Another example of a company promoting sustainable consumption in India is the fashion brand, Tula, which produces ethically sourced and environmentally friendly clothing. Tula works with artisan groups and craftsmen to create high-quality garments that are made using sustainable materials and production processes. The company also promotes fair trade practices and supports local communities by providing them with fair wages and working conditions.

Overall, factors influencing consumer purchasing decisions in India include a growing awareness of environmental and social issues, increasing concerns about the impact of consumerism on the planet, and a desire to support companies that are committed to

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sustainability. Companies that promote sustainable consumption are not only meeting the

demands of socially and environmentally conscious consumers but are also contributing to

the overall well-being of society and the planet. By implementing strategies that prioritize

sustainability and social responsibility, these companies are setting a positive example for

the business community and encouraging other companies to follow suit.

RESULTS

Consumers are gradually becoming more aware of the circular economy concept due to

growing environmental concerns. The promotion of sustainability by car manufacturers

and policymakers plays a crucial role in this shift. However, despite this increasing

awareness, many consumers still lack a deep understanding of how a circular economy

specifically applies to the automotive sector. Efforts to educate consumers on the benefits

of vehicle recycling, reuse, and refurbishing are essential for greater adoption.

Studies show that consumers, especially in developed markets, are willing to support

sustainable automotive practices such as electric vehicles (EVs), car-sharing models, and

purchasing vehicles made from recycled materials. However, many consumers still

prioritize cost in their decision-making. The higher upfront costs of sustainable vehicles or

services can deter some, though long-term savings and environmental benefits may sway

more informed buyers.

Government policies, such as tax incentives for electric vehicles or subsidies for recycling

old vehicles, are critical drivers for encouraging consumers to participate in circular

economy practices. In some regions, Extended Producer Responsibility (EPR) schemes are

being implemented, where manufacturers take responsibility for the entire lifecycle of

vehicles, promoting recycling and reuse efforts among consumers.

Auto companies are also playing a pivotal role by adopting circular economy principles

through the use of recycled materials, designing cars for longer life cycles, and promoting

vehicle refurbishing and remanufacturing. Brands that communicate their commitment to

sustainability effectively and provide transparent information about their circular economy

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efforts can gain greater trust and loyalty from environmentally conscious consumers.

Despite these efforts, there are still significant barriers to adoption. Consumers often have concerns about the quality and reliability of refurbished or remanufactured vehicles, which

can hinder broader acceptance. In addition, the limited availability of circular economy

products, such as second-hand or refurbished cars and parts, reduces the opportunity for

consumers to adopt these alternatives, particularly in certain regions.

Digital platforms offering car-sharing services or subscription-based models are growing

in popularity, especially in urban areas. These models allow consumers to participate in

the circular economy by reducing ownership while still accessing vehicles. Secondary

markets, including online platforms facilitating the sale of used cars and parts, also

contribute to the circular economy, enabling consumers to extend the lifespan of vehicles

and reduce waste.

Generational differences also play a role in consumer behavior. Younger consumers,

particularly millennials and Gen Z, are more inclined to embrace the circular economy in

the automotive sector due to their stronger environmental values. The growing adoption of

EVs, which have a smaller carbon footprint over their lifecycle compared to internal

combustion engine vehicles, is seen as a positive step toward circular economy adoption.

Research indicates that a segment of consumers is willing to pay a premium for

sustainable and environmentally friendly vehicles, particularly when they see long-term

value in terms of fuel savings or reduced environmental impact. However, affordability

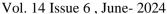
remains a challenge for some, as the high cost of sustainable vehicle options, such as

electric or hybrid vehicles, can be a barrier, especially in price-sensitive markets.

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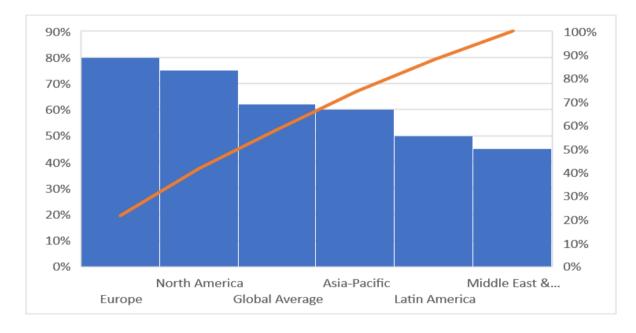




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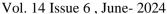
Table 1: Consumer Awareness and Adoption of Circular Economy Practices in the Automobile Sector (2023)

Region	Aware of Circular Economy (%)	Willing to Adopt (%)	Currently Adopting (%)
North America	75%	60%	35%
Europe	80%	65%	45%
Asia-Pacific	60%	50%	30%
Latin America	50%	40%	20%
Middle East & Africa	45%	35%	15%
Global Average	62%	50%	29%



The table highlights regional variations in consumer awareness, willingness, and adoption of circular economy practices in the automobile sector. Europe leads with the highest awareness (80%) and adoption (45%), followed by North America, where 75% are aware, but only 35% actively participate. Asia-Pacific shows moderate engagement, with 60% awareness and 30% adoption, while Latin America and the Middle East & Africa lag behind, with lower awareness and adoption rates. The global averages reflect that while





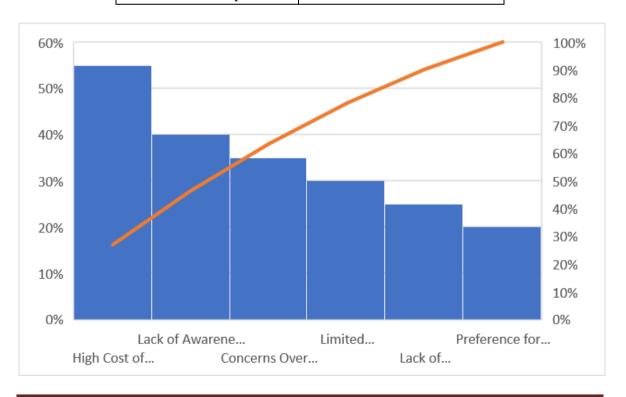




62% of consumers are aware of circular economy concepts, only 29% are currently adopting them, indicating a significant gap between awareness and action.

Table 2: Barriers to Circular Economy Adoption by Consumers in the Automobile Sector (2023)

Barrier	Percentage of Consumers Affected (%)	
High Cost of Sustainable Vehicles	55%	
Lack of Awareness and Information	40%	
Concerns Over Quality and Reliability	35%	
Limited Availability of Circular Options	30%	
Lack of Government Incentives	25%	
Preference for Traditional Ownership	20%	



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stronger government support for sustainable automotive initiatives.

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The table highlights key barriers to consumer adoption of circular economy practices in the automobile sector. The most significant challenge is the high cost of sustainable vehicles, affecting 55% of consumers. Lack of awareness and information (40%) and concerns over quality and reliability (35%) also pose substantial obstacles. Limited availability of circular options (30%) and insufficient government incentives (25%) further hinder adoption. Additionally, 20% of consumers prefer traditional vehicle ownership, resisting newer, more sustainable models like sharing or leasing. Overcoming these barriers requires improved affordability, better consumer education, expanded options, and

CONCLUSION

Overall, consumer attitudes towards sustainable consumption in the automobile sector and consumer awareness of circular economy principles are promising trends that have the potential to drive significant positive change. By prioritizing sustainability in their purchasing decisions and advocating for more environmentally friendly options, consumers can play a crucial role in promoting a more sustainable, circular economy. Encouraging more sustainable consumption practices will not only benefit the environment but also promote social equity and economic prosperity in the long term. It is essential for businesses, policymakers, and consumers to work together to create a more sustainable and circular economy for the future.

In conclusion, circular economy in the automobile sector offers a promising solution to the environmental challenges facing the industry. By adopting circular economy principles, companies can reduce their environmental footprint, improve resource efficiency, and create new business opportunities. Indian case studies demonstrate the feasibility and benefits of implementing circular economy practices in the automobile sector, highlighting the importance of sustainable development and innovation in the industry. By embracing circular economy principles, companies in the automobile sector can drive positive change and contribute to a more sustainable and resilient future.



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