MONTHLY JULY-2024 Rs. 400

VOLUME 17 ISSUE 07

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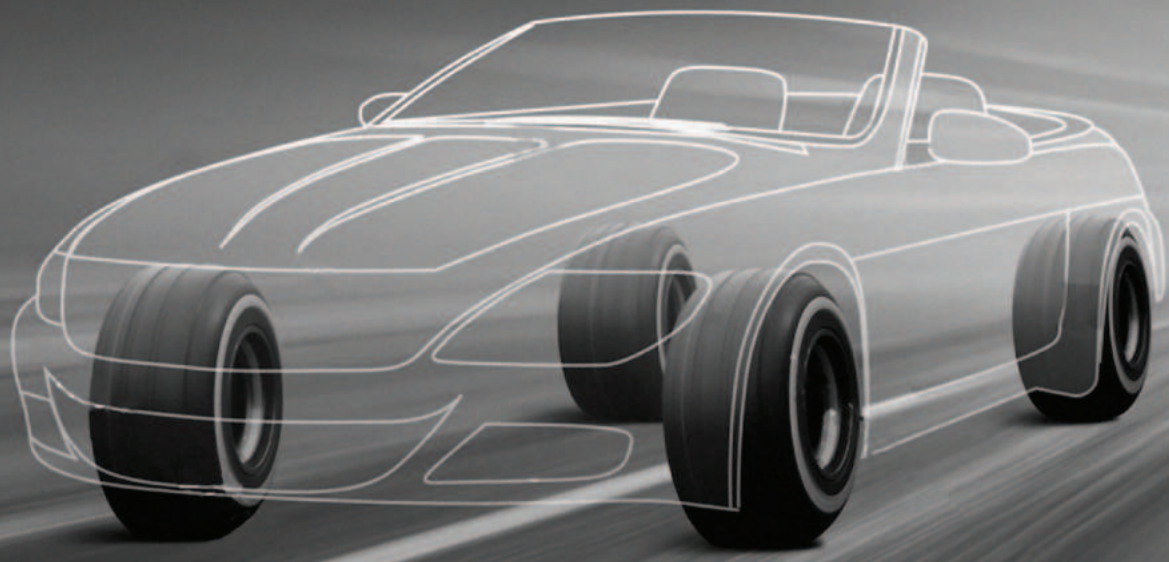

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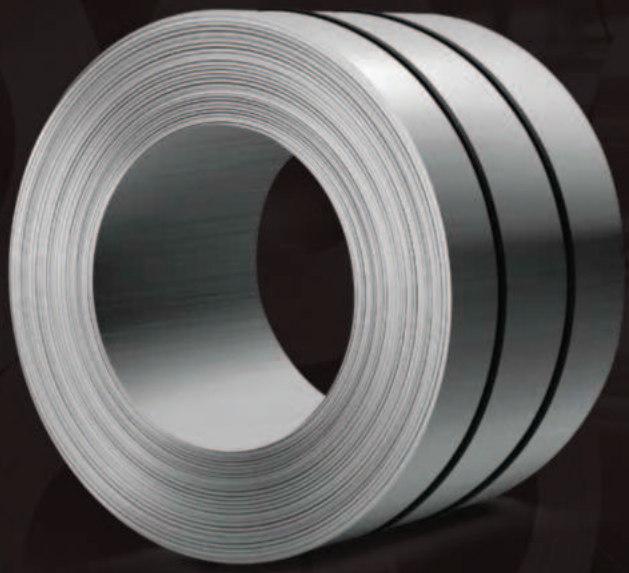

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LANDMARK MOU SIGNING FOR JV BETWEEN

MASTER MOTOR AND YUTONG

Master Motor Corporation and **Yutong Bus Company** signed a **Memorandum of Understanding (MOU)** to establish a Joint Venture Company and locally manufacture and assemble Yutong's New Energy City Buses in Pakistan. The MoU was signed by **Danial Malik, Director of Master Motor**, and **Huang Yuanchao of Yutong** at the Pakistan Shenzhen Business Conference on **5th June, 2024**, during Prime Minister Shahbaz Sharif's visit to China. The conference aimed to foster new business opportunities and stimulate economic activity in Pakistan.

Yutong Master will set up a new greenfield plant to become the first and only company to produce city buses in the country. **Yutong's New Energy City Buses** are available in hybrid and electric powertrains with the aim to bring latest technology in public transport across **Pakistan**, supporting government efforts to upgrade transportation infrastructure.

About Yutong Bus & Yutong Master

Yutong, the world's largest bus manufacturer, has led the global market for nine years, holding over **15% global** and **36.1% Chinese** market share. **Yutong Master** established in **2013** and quickly became the leading bus manufacturer in **Pakistan**, with **70% market share** in intercity & serving as a trusted partner for public and private fleet users.

(Sitting) Danial Malik and Huang Yuanchao

(Standing, from left to right) Ms. Erfa Iqbal, Additional Secretary Board of Investments; Syed Zafar Ali Shah, Secretary Planning & Development; Abdul Aleem Khan, Minister for Privatization; Rana Tanvir Hussain, Minister for Industries & Production; Jam Kamal, Minister for Commerce.

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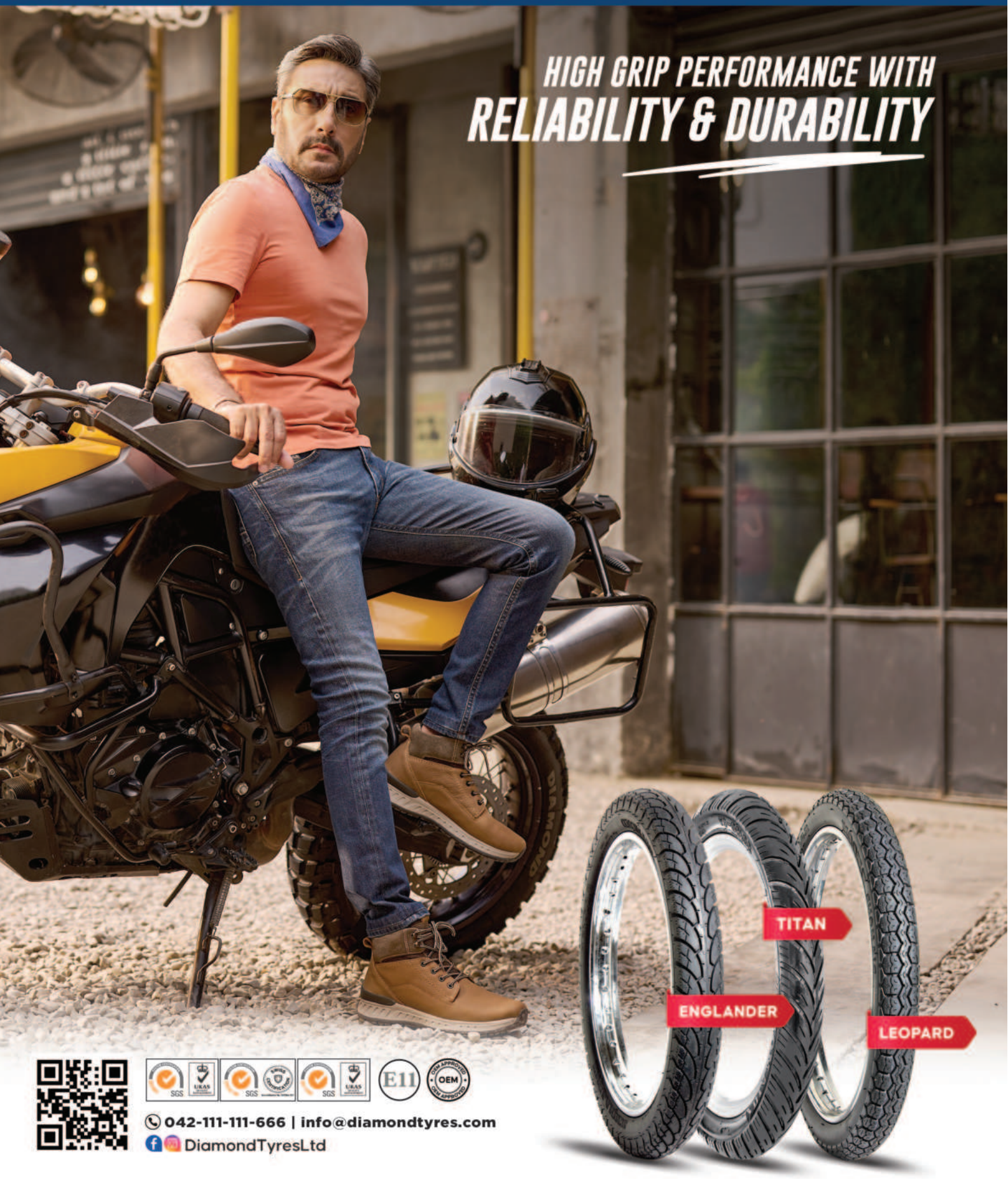

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Pakistan's premier magazine on automotive, engineering & Electric Vehicles
July-2024 Volume 18, Issue 07
Monthly
AUTOMARK Magazine International

Active Communications
Mailling Address:
D-68, Block-9, Clifton, Karachi
Mobile: 0321-2203815
E-mail: automarkpk@gmail.com
website: www.automark.pk
Whatsapp: +92 321 2203815
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Automark Canada Office
Mohammad Shahzad S.A.E. D.M.P.
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Publishing every month by M. Hanif Memon

Editorial

Moving towards EVs - prospects and challenges

The auto industry is undergoing a tectonic shift, transitioning from over a century of dominance by internal combustion engines (ICEVs) to electric vehicles (EVs).

As the earlier starter, China has taken an insurmountable lead and now produces twice as many EVs as the US and the EU combined. Unable to compete, President Biden recently quadrupled tariffs on Chinese-made EVs to 100%.

Similarly, the EU is deliberating levying 30-50% countervailing duties on Chinese EVs. However, unlike the US, the EU is observing due process and acting under WTO rules.

Several developing nations are now emulating China's policies to establish EV production capacities. Thailand and Indonesia have already surpassed annual production capacities of 250,000 EVs each. India recently unveiled a new EV policy, offering numerous incentives to any EV manufacturers committing a minimum investment of $500 million.

Despite announcing an EV policy with several incentives five years ago, Pakistan has not attracted any investors for assembling electric cars. The small size of its domestic market, localisation requirements, and the significant initial investment needed may be substantial deterrents.

Whether or not we have our own EV assembly facility, it is in our interest to expedite the transition to electric cars. These are at least four times more energy efficient and don't require regular maintenance as they contain one-hundredth of the moving parts compared to an internal combustion engine. This change can save the country billions of dollars in fuel and auto parts.

On top of other advantages, they will be a significant factor in reducing pollution and healthcare costs. With the current level of carbon emissions, our major cities have become unliveable.

We can draw lessons from countries that pursued localisation and high tariff protection policies for decades, only to later abandon them due to their detrimental economic effects on the overall economy.

Rather than fostering technical innovation and increasing employment in the auto sector, these policies stifled technological progress and reduced jobs in auto production, distribution, and repair.

Pakistan has the potential to become competitive in auto sectors other than cars, particularly in two and three-wheelers, tractors and buses, which are relatively easier to convert to electric technology.

For instance, Pakistan exported 25,000 motorcycles last year, and is projected to export over 4,000 tractors this year. While traditional top exporters of motorcycles, such as the US, EU and other developed countries, are experiencing a decline in exports of these vehicles, developing nations like Vietnam and India are capturing their market share.

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Exploring Brazil's Auto Parts Aftermarket and Economic Landscape

Mashood Khan

Economic Overview

Brazil, the largest country in South America, is home to 215 million people with a real GDP per capita of USD 8,917. As a large federal country, Brazil is comprised of the union (federal government), 26 states (plus the Federal District), and over 5,500 municipalities.

Despite its diversity and economic potential, racial and gender discrimination persist as systemic barriers, limiting opportunities for many individuals and families to break the inter-generational cycle of poverty.

Auto Parts Aftermarket in Brazil

The Brazilian automotive aftermarket is experiencing significant growth, driven by the increasing average age of vehicles and the rising number of cars on the road. As vehicles age, the demand for replacement parts naturally increases, providing a boost to the aftermarket sector. Vehicles older than ten years are particularly prone to parts failure, creating significant demand for filters, brake parts, clutch parts, tires, batteries, and more.

Key Insights into the Auto Parts Aftermarket

Market Size and Growth

The Brazil Used Car Market size is estimated at USD 151.72 billion in 2024 and is expected to reach USD 197.75 billion by 2029, growing at a CAGR of over 4% during the forecast period (2024-2029). This growth underscores the robust demand for auto parts and accessories needed to maintain and service an aging vehicle fleet.

Key Economic Indicators

Population: 215.3 million
GDP Annual Growth: 2.9%
GDP Per Capita: USD 8,917.67
Inflation Rate (2022): 9.8%
Interest Rate: 10.5%
Government Debt to GDP Ratio:
72.87%
Exchange Rate: 1 USD = 5.14 Brazilian Real
Import Tariffs: 10% to 35%

Transportation

By Air: The quickest way to get from Pakistan to Brazil by plane takes about 23 hours 42 minutes, departing from Jinnah International Airport (KHI) and arriving at Guarulhos - Governador André Franco Montoro International Airport (GRU).

By Sea: Shipping from Pakistan to Brazil takes about 34 days 11 hours, departing from Karachi Port (PKKHI) and arriving at Rio de Janeiro (BRRIO), with vessels departing 2-4 times a week.

Key Events in Brazil's Auto Parts Sector for 2024~2025

Upcoming Exhibitions

* Expo Peças 2024
* Date: September 5-7, 2024
* Details: Automobile, car accessories, automobile engineering, trucks, cars, automation industry, automotive.
* Location: Centro de Convenções de Goiânia, Goiânia, Brazil
* Website:Expo Peças
* Agrishow 2025
* Date: April 28 - May 2, 2025
* Details: The biggest and most

Important agricultural technology trade show in

Brazil, and one of the largest in the world.
* Location:Recinto de ExposiçõesAgriShow, Ribeirão Preto - SP, Brazil
* Website:Agrishow
* SalãoDuasRodas 2025
* Date: October 2025 (Exact date TBA)
* Details: The main motorcycle trade show for Latin America, featuring test rides, off-roading, urban mobility, lifestyle arena, oval track, customization arena, and more.
* Location: São Paulo Expo Exhibition & Convention Center, São Paulo, Brazil

For businesses looking to enter or expand in the Brazilian auto parts aftermarket, these exhibitions provide excellent opportunities to network, showcase products.

List of products at 6 digits level imported by Brazil in 2022 Detailed products in the following category: 8708 Parts and accessories for tractors, motor vehicles for the transport of ten or more persons, ...

Code	Product label	Value imported in 2022 (USD thousand)	Annual growth in value between 2018-2022 (%, p.a.)	Annual growth in value between 2021-2022 (%, p.a.)	Annual growth of world exports between 2018-2022 (%, p.a.)	Average tariff (estimated) applied by Brazil (%)
'TOTAL	All products	272701734	11	24	7	11.7
'870840	Gear boxes and parts thereof, for tractors, motor vehicles for the transport of ten or more ...	2483355	9	6	0	11.9
'870829	Parts and accessories of bodies for tractors, motor vehicles for the transport of ten or more ...	1232648	13	4	2	14
'870899	Parts and accessories, for tractors, motor vehicles for the transport of ten or more persons, ...	1072441	13	11	2	8.6
'870850	Drive-axles with differential, whether or not provided with other transmission components, ...	731128	10	12	2	12.4
'870830	Brakes and servo-brakes and their parts, for tractors, motor vehicles for the transport of ...	453537	8	9	1	16
'870894	Steering wheels, steering columns and steering boxes, and parts thereof, for tractors, motor ...	384050	5	6	-3	15.5
'870880	Suspension systems and parts thereof, incl. shock-absorbers, for tractors, motor vehicles for ...	351578	11	8	5	17.1
'870895	Safety airbags with inflator system and parts thereof, for tractors, motor vehicles for the ...	254726	7	2	-7	13.3
'870870	Road wheels and parts and accessories thereof, for tractors, motor vehicles for the transport ...	236535	15	42	3	15.3
'870893	Clutches and parts thereof, for tractors, motor vehicles for the transport of ten or more persons, ...	145276	12	5	2	17.3
'870891	Radiators and parts thereof, for tractors, motor vehicles for the transport of ten or more ...	133589	16	7	3	17.1
'870892	Silencers "mufflers" and exhaust pipes, and parts thereof, for tractors, motor vehicles for ...	122868	17	23	4	17.1
'870810	Bumpers and parts thereof for tractors, motor vehicles for the transport of ten or more persons, ...	73783	6	10	2	17.3
'870821	Safety seat belts for motor vehicles	52530	12	7	-2	17.3

Sources: ITC calculations based on Ministério do Desenvolvimento, Indústria e Comércio Exterior satistics.

DATE	EXHIBITION NAME	CITY AND EXHIBITION CENTER
September 5-7, 2024	**Expo Peças 2024**	**Centro de Convenções de Goiânia, Goiânia, Brazil**

By Mashood Khan - Director - Mehran Commercial Enterprises / Expert Auto Sector / Former Chairman PAAPAM

Electric Vehicle (EV) Charging in Emergency Situations

Asif Mehmood

The future of mobility depends not just on technological advancements, but also on our ability to adapt and prepare for the unexpected. By embracing creativity and foresight, we can pave the way for a world where EVs are not only a green alternative but a dependable choice in every situation.

In a rapidly evolving world where electric vehicles (EVs) are becoming increasingly prevalent, ensuring their reliable operation during emergencies and in remote locations presents unique challenges.

Electric Vehicle (EV) charging during emergencies involves ensuring that EVs can be recharged quickly, reliably, and safely, even under adverse conditions.

Here, we explore innovative and creative solutions to address EV charging needs in such scenarios.

Emergency Situations for EV Charging:

- **Far Areas:** Rural or less developed regions may lack sufficient charging infrastructure, making it challenging for EV owners to find charging stations.
- **Hill Stations:** Elevated and often isolated locations where installing and maintaining charging infrastructure can be difficult.
- **Offshore Locations:** Islands and coastal areas with limited access to the mainland power grid may face significant challenges in supporting EV charging infrastructure.

• Natural Disasters:

Hurricanes, earthquakes, floods, and wildfires can disrupt the power grid and create significant challenges for EV charging.

• Power Outages:

Blackouts, brownouts, or other disruptions in the electrical supply can hinder the ability to charge EVs.

• Accidents and Roadside Breakdowns:

EVs can run out of charge unexpectedly, requiring immediate assistance.

Charging Solutions in Emergency Situations:

1. Portable Chargers (Flexible lifeline)

- **Advantages:**

o **Easy to Transport:** Portable chargers can be easily carried in the trunk of an EV or by emergency response teams.

o **Standard Outlets:** They can be used with standard electrical outlets found in homes, offices, and many other locations.

- **Types:**

o **Level 1 (120V):** Suitable for overnight charging or when extended charging time is available. Provides approximately 3-5 miles of range per hour.

o **Level 2 (240V):** Faster charging suitable for short stops, providing approximately 10-20 miles of range per hour.

- **Limitations:**

o **Outlet Dependency:** Requires access to a functioning electrical outlet, which may not be available in remote or disaster-struck areas.

o **Slower Charging:** Level 1 chargers are particularly slow, making them less ideal for urgent situations.

2. Mobile Charging Units (Power on wheels)

- **Functionality:**

o **High-Capacity Batteries/**

Generators: Vehicles of trailers equipped with substantial battery banks or generators to provide emergency charging.

• **Capabilities:**

o **DC Fast Charging:** Often supports DC fast charging (up to 50-100 kW), allowing for quick replenishment of EV batteries.

• **Use Cases:**

o **Roadside Assistance:** Deployed by roadside assistance services to aid stranded EVs.

o **Emergency Response:** Used by emergency teams during natural disasters to provide immediate charging.

o **Remote Events:** Useful during events in remote areas where traditional charging infrastructure is unavailable.

3. Renewable Energy Solutions (Harnessing Nature's Power)

• **Solar-Powered Chargers:**

o **Description:** Deployable solar panels that generate electricity for EV charging.

o **Advantages:** Sustainable and particularly useful in sunny regions.

o **Limitations:** Dependent on weather and daylight conditions.

• **Wind-Powered Chargers:**

o **Description:** Portable wind turbines that generate electricity.

o **Advantages:** Suitable for windy locations.

o **Limitations:** Dependent on wind conditions and less portable than solar panels.

• **Hybrid Systems:**

o **Description:** Systems combining solar, wind, and battery storage to provide continuous power.

o **Advantages:** Ensures power availability regardless of weather conditions.

o **Applications:** Ideal for remote and off-grid locations.

4. Battery Swapping Stations (The quick switch)

• **Description:**

o **Function:** Facilities where EVs can exchange their depleted batteries for fully charged ones.

• **Advantages:**

o **Quick Turnaround:** Allows for rapid battery exchange, minimizing downtime.

• **Challenges:**

o **Standardization:** Requires standardized battery designs across different EV models.

o **Infrastructure Investment:** Significant investment is needed for setting up swapping stations and maintaining battery inventory.

5. Pre-installed and Resilient Charging Networks (Building for the future)

• **Strategic Placement:**

o **Evacuation Routes:** Installing charging stations along major evacuation routes to ensure access during emergencies.

o **Disaster-Prone Areas:** Focusing on regions with a high risk of natural disasters to provide reliable charging options.

• **Grid Resilience Enhancements:**

o **Upgrades:** Strengthening the power grid to withstand and quickly recover from disasters, ensuring continuous power supply to charging stations.

• **Microgrids and Energy Storage:**

o **Microgrids:** Localized grids that can operate independently from the main grid during outages.

o **Energy Storage:** Utilizing battery storage systems to provide backup power to charging stations during grid failures.

o **Renewable Integration:** Incorporating renewable energy sources like solar and wind to ensure sustainability and reduce dependency on the main grid.

CONCLUSION:

Creative solutions for EV charging in emergency situations not only enhance the reliability and convenience of electric vehicles but also promote sustainability and resilience.

From portable chargers and mobile units to renewable energy and battery swapping, these creative approaches ensure that EVs remain a viable and practical choice, even in the most demanding scenarios.

By investing in these technologies and infrastructure, we pave the way for a greener and more resilient future.

Electric Vehicles lead the way to a sustainable future?

By Asif Masood

Globally, energy is regarded as one of the core elements of social well-being and anessential component of sustainable development. Balanced energy supply and demand are vital considerations for any country when it comes to providing clean, sustainable and affordable energy to consumers

For decades, Pakistan's primary energy supply a mix has remained dominated by indigenous and imported fossils fuels. More than three fourth portion of the overall energy mix consist of gas and oil to meet energy demand.

The energy sector contributes almost 73% of global greenhouse gas emissions, highlighting the crucial need for a shift to cleaner and renewable energy sources for achieving net zero and a sustainable global future.

Worldwide Road transportation accounted for 37% of all energy-related carbon dioxide emissions due to heavy reliance on petroleum-based fuels, making it the biggest cause of global warming. Comprehensive energy demand for petroleum will continue to expand and peak in the mid-2030s as energy consumption in the road sector is expected to increase by 1.26%, with a 1% growth in urbanization mostly taking place in South East Asia.

There has been a noticeable increase in the acceptance and use of electric vehicles (EVs) internationally and specially in Pakistan due to the rapid efforts made by government to encourage environmentally friendly vehicles in the transport sector. The government of Pakistan approved an ambitious National Electric Vehicles Policy (NEVP) in 2019 with the goal of electric vehicles comprising 30 percent of all passenger vehicle and heavy-duty truck sales by 2030 and an even more ambitious target of 90 percent by 2040 particularly through the electrification of vehicles to reduce GHG emissions.

Challenges& Barriers:

Public worries concerning the end-of-life management of EV batteries have grown with their rising popularity. Batteries eventually need to be disposed of or recycled because they normally only have an 8-year lifespan. The possibility of reusing the batteries for various applications (i.e. energy storage systems) has attracted attention and important metals can also be recovered when recycling the battery's components, lessening the negative effects on the environment.

For disposal, appropriate safety measures must be taken to manage the batteries safely. Another issue is the electrical grid's capacity to support the increasing demand for power and the availability of public charging networks.

According to the study, there will be a huge increase in EVs on the road.

South East Asia will face difficulties because of its poorly developed electric supply infrastructure. To preserve stability, it is crucial to enhance and extend distribution infrastructure, increase energy efficiency and integrate renewable energy sources into the grid, as well as prioritize sustainability, resiliency, equity, reliability and security when improving the electric power system.

The investment and construction of charging infrastructure networks are also big hurdles to meet demand for expansion in the use of EVs in Asia and the Pacific over the next few years.

Another pertinent issue is the source of electricity for charging EV batteries, which has implications for carbon emissions. If the electricity does not come from renewable or clean sources, it could lead to a mere shift in emissions and not contribute to reducing total carbon emissions.

Due to the global effort to increase EVs, the demand for raw materials for rechargeable batteries is anticipated to increase, resulting in a shortage of resources and crucial metals like cobalt, lithium, nickel, manganese and graphite are essential minerals needed for EV batteries, and the demand for EVs is growing, resulting in pressure

on the world's lithium resources. Researchers have discovered that the demand for essential metals such as manganese, nickel, cobalt, and lithium could rise between 1,099% and 7,513% by the year 2050 compared to the demand in 2020.

The way forward

To create a sustainable transportation system, it is important to consider the direct impacts of different modes of transportation and the un-intended consequences of shifting toward more sustainable options.

A combination of policies, technological advancements and social shifts will be needed to achieve sustainable transportation through a holistic approach that considers the entire transportation system, including infrastructure, energy sources and behavioral changes. This will require joint efforts from governments, academic institutions, industries and individuals.

Comprehensive collaboration across various sectors to ensure a sustainable future and achieve the goal of sustainable transportation will require meaningful and practical measures that include the following:

Integrated Urban Planning:
Cities should adopt integrated urban planning strategies that prioritize public transportation, pedestrian-friendly infrastructure and mixed-use development to reduce reliance on individual car ownership and encourage sustainable modes of transportation.

Expansion of Public Transit:
Governments should invest in expanding and improving public transit systems, including bus rapid transit networks, light rail, and subway systems, to provide affordable and accessible alternatives to private vehicles owners.

Electrification of Fleets:
Beyond passenger vehicles, electrifying commercial fleets, such as buses, delivery trucks and taxis, can significantly reduce emissions and improve air quality in urban areas.

Renewable Sources of Energy:
To ensure that efforts are actually green and contribute to net zero, the energy used in transportation, including charging, should come from clean and renewable sources.

Smart Grid Technologies:
Investing in innovative grid technologies and energy storage solutions can enhance the stability and reliability of the electrical grid, accommodating the increased demand for electricity from EV charging stations while maximizing the integration of renewable energy sources.

Innovative Financing Mechanisms:
Governments should explore innovative financing mechanisms, such as congestion pricing, carbon pricing and tax incentives, to incentivize sustainable transportation choices and fund investments in infrastructure and technology.

EVs hold MomentousPromise in InstrumentalEffects on Environment

• Reduced Greenhouse Gas Emissions:
EVs produce zero tailpipe emissions, which can significantly reduce greenhouse gas emissions, especially when powered by renewable energy sources like solar or wind. This can help combat climate change and improve air quality in urban areas.

• Energy Efficiency:
EVs are generally more energy-efficient than internal combustion engine vehicles. They convert a higher percentage of the energy from their batteries into power to move the vehicle, resulting in less energy waste and reduced overall energy consumption.

• Decreased Dependency on Fossil Fuels:
By transitioning from gasoline and diesel vehicles to electric ones, societies can decrease their dependency on fossil fuels. This reduces the environmental impact of extracting, refining, and burning these fuels, as well as the geopolitical tensions associated with their sourcing.

• Technological Advancements: The growth of EVs industry has stimulated technological advancements in battery storage and renewable energy integration.

• Improvements in Infrastructure:
The adoption of EVs has led to investments in charging infrastructure, which can also support renewable energy integration and grid stability. Additionally, smart charging technologies can optimize charging times to reduce strain on the grid during peak demand periods.

While electric vehicles offer many benefits for a sustainable future, challenges remain, such as the environmental impact of battery production, the need for further infrastructure development and addressing issues related to resource availability and recycling.

However, with ongoing innovation, policy support, and collaborative efforts across industries, electric vehicles can certainly lead the way towards a more sustainable transportation system.

Drive Tomorrow Today
Unleashing the Future of Electric Mobility

By Aqeel Bashir

Dear Readers EVs are ideal for environmentally conscious consumers seeking cost-effective, sustainable transportation. The market favors compact electric SUVs and versatile city cars with long battery range and fast charging capabilities. Targeting urban dwellers and tech-savvy individuals can optimize EV adoption and sales.

Target Customers for Electric Vehicles (EVs)

1. Urban Commuters

Urban commuters represent a significant segment of potential EV customers. These individuals often travel short distances within city limits, making the typical range of EVs more than sufficient.

They benefit from lower fuel costs and reduced emissions, both of which are increasingly important in densely populated urban areas. Moreover, urban areas often have more charging infrastructure in place compared to rural areas, alleviating range anxiety.

2. Environmentally Conscious Consumers

Consumers who prioritize sustainability and reducing their carbon footprint are ideal candidates for EVs. This group includes individuals who are concerned about climate change and are motivated to make eco-friendly choices.

These consumers are typically well-informed about the environmental impact of their purchasing decisions and are willing to invest in technology that aligns with their values.

3. Tech Enthusiasts

Tech enthusiasts are early adopters of new technology and are likely to be attracted to the advanced features found in modern EVs. This group appreciates the innovative aspects of EVs, such as regenerative braking, advanced driver-assistance systems (ADAS), and over-the-air software updates.

Their enthusiasm for technology makes them more open to the initial costs and the learning curve associated with new technology.

4. Fleet Operators

Businesses that operate vehicle fleets, such as delivery companies, ride-sharing services, and public transportation agencies, are increasingly turning to EVs. The lower operational costs, reduced maintenance, and benefits from government incentives make EVs an attractive option for these companies.

Additionally, fleet operators often have the resources to install dedicated charging infrastructure, mitigating one of the primary barriers to EV adoption.

5. Government and Corporate Buyers

Government agencies and corporations are significant potential customers for EVs, driven by sustainability goals and regulatory requirements.

Many governments are setting targets for electrifying their vehicle fleets to reduce emissions. Corporations are also increasingly committed to corporate social responsibility (CSR) initiatives and can use EVs as part of their strategy to achieve sustainability goals.

6. High-Income Households

Households with higher disposable incomes are more likely to afford the higher upfront cost of EVs. These consumers can also invest in home charging infrastructure, which makes EV ownership more convenient.

Additionally, high-income households are often more influenced by the premium features and brand prestige associated with certain EV models.

7. Young Professionals

Young professionals, particularly those in metropolitan areas, are a growing market for EVs. They tend to be environmentally conscious, tech-savvy, and open to new modes of transportation. This group values convenience and innovation and is likely to be attracted to the modern, sleek design and advanced features of EVs.

Market Trends and Ideal EV Models

1. Subcompact and Compact Cars

Market Trend:

The urbanization trend is driving demand for smaller, more maneuverable vehicles that can navigate congested city streets and fit into tight parking spaces. Additionally, many cities are implementing low-emission zones that restrict the use of internal combustion engine vehicles, further boosting demand for compact EVs.

Ideal EV Model:

A subcompact or compact EV with a range of around 150-200 miles per charge would cater well to urban commuters. Features such as fast charging capability, compact dimensions, and smart parking solutions (like automated parallel parking) would be particularly attractive.

2. Electric SUVs and Crossovers

Market Trend:

The SUV and crossover segments continue to grow in popularity across many markets due to their versatility, higher seating position, and larger cargo space. Consumers are looking for family-friendly vehicles that do not compromise on sustainability.

Ideal EV Model:

An electric SUV or crossover with a range of 250-300 miles per charge would meet the needs of families and individuals who require more space. This model should feature all-wheel drive options, ample cargo space, advanced safety features, and a robust infotainment system.

3. Luxury EVs

Market Trend:

The luxury car segment is seeing a significant shift towards electrification, driven by advancements in battery technology and growing consumer interest in high-performance, eco-friendly vehicles. Luxury consumers are looking for top-tier performance, cutting-edge technology, and premium features.

Ideal EV Model:

A luxury EV with a range of 300+ miles per charge, rapid acceleration, and a suite of advanced features (such as autonomous driving capabilities, premium interior materials, and high-end audio systems) would appeal to this market.

4. Electric Pickup Trucks

Market Trend:

In regions where pickup trucks are popular, there is a growing interest in electric pickups due to their potential for high torque, which is beneficial for towing and off-road capabilities. Additionally, commercial and individual users are becoming more aware of the cost savings associated with EVs.

Ideal EV Model:

An electric pickup truck with a range of 300+ miles per charge, high towing capacity, rugged design, and features geared towards outdoor and work activities (like power outlets for tools) would be ideal.

5. Affordable Entry-Level EVs

Market Trend:

As EV technology matures and economies of scale are achieved, the cost of producing EVs is decreasing, making them more accessible to a broader audience.

There is a growing demand for affordable EVs that provide a cost-effective alternative to traditional internal combustion engine vehicles.

Ideal EV Model:

An entry-level EV with a range of around 150-200 miles per charge, priced competitively to attract budget-conscious consumers, would be highly effective. This model should focus on essential features, reliability, and ease of use.

6. Electric Commercial Vans

Market Trend:

The rise of e-commerce and the demand for last-mile delivery solutions are driving interest in electric commercial vans. These vehicles offer lower operating costs, reduced emissions, and can be tailored to meet the specific needs of delivery services.

Ideal EV Model:

An electric commercial van with a range of 150-200 miles per charge, large cargo capacity, and customizable interiors to suit different business needs would be highly attractive.

7. Electric Bicycles and Scooters

Market Trend:

Micro-mobility solutions like electric bicycles and scooters are gaining popularity, particularly in urban areas where traffic congestion and parking are significant issues. These vehicles offer a convenient, cost-effective, and environmentally friendly mode of transportation for short trips.

Ideal EV Model:

Electric bicycles and scooters with ranges of 20-50 miles per charge, lightweight design, and features such as app connectivity for tracking and security would appeal to urban dwellers. Companies like Lime and Bird are already capitalizing on this trend.

8. Autonomous Electric Vehicles

Market Trend:

The development of autonomous driving technology is progressing rapidly, with significant investments from both tech companies and traditional automakers. Autonomous EVs are seen as the future of personal and shared transportation.

Ideal EV Model:

An autonomous EV designed for ride-sharing or ride-hailing services, with a range of 300+ miles per charge, advanced safety features, and a user-friendly interface for passengers would be ideal.

Conclusion

The EV market is diverse, with different segments showing varying levels of growth and potential. Urban commuters, environmentally conscious consumers, tech enthusiasts, fleet operators, government and corporate buyers, high-income households, and young professionals all represent key target customer groups. Based on current market trends, launching subcompact and compact cars, electric SUVs and crossovers, luxury EVs, electric pickup trucks, affordable entry-level EVs, electric commercial vans, electric bicycles and scooters, and autonomous electric vehicles would cater to the needs of these groups and help capture a significant share of the growing EV market.

Strategically targeting these segments with appropriately designed EV models will ensure that manufacturers can meet the diverse needs and preferences of modern consumers while contributing to a more sustainable future.

By Aqeel Bashir, he is Skill Developer / Consultant for over 25 year of hands on Automobile 3S / OEM Management Experience. You can reach him at email: aqeel.bashir81@gmail.com
He is automark's regular contributor since very long time.

Auto assemblers demand level playing field

The auto sector has demanded that the government implement measures to curb the rising imports of used cars, which are not only undermining local production but also instrumental in transferring forex through the grey channel.

In its budget proposals to the Federal Board of Revenue (FBR), the auto sector said that during 2022-23, the industry imported parts amounting to $1.57 billion and all the payments were made through the banking channel.

It added that payments to import used cars were made through the 'grey channel' for transferring foreign exchange.

Indus Motor Company Chief Executive Ali Asghar Jamali said that 13 brands currently produce over 40 models in the country, and their combined capacity is 500,000 units annually.

However, the influx of imported used cars continues to pose sustainability challenges for the local industry.

"The automotive industry, including vendors, provides up to 5 million direct and indirect jobs, whereas the number of jobs provided by the importers of used cars was negligible," Mr Jamali added.

The auto sector has also questioned the misuse of gift schemes to import second-hand vehicles, which end up in the showrooms of commercial importers.

Talking to press Mr Jamali said, "We have even asked the government to allow commercial imports of used cars, so that we too will become importers and shut down the local auto industry."

He said the Additional Customs Duty (ACD) on used car was reduced from 35 per cent to 7pc while the regulatory duty (RD) was reversed from 100pc to 15pc for up to 1800cc and to 70pc for vehicles above 1800cc on April 1, 2023.

On the other hand, the sales tax was increased from 18pc to 25pc on locally assembled vehicles above 1400cc. Other duties and taxes were also increased on the local industry.

In its budget proposal, the auto industry has demanded equalising the RD and ACD between locally assembled vehicles and used cars.

The industry has demanded that the government reduce the depreciation rate from 1-2pc to 0.5pc, as mentioned in import policy, custom general order number 14/2005, and SRO 577(I)/2005.

It has highlighted that from 2020 to 2023, used car imports were around 10pc compared to local production. However, due to the reduction in RD and ACD in 2024, this figure sharply increased to approximately 28pc.

The auto sector has also suggested that the government should ensure that used vehicles are imported only for the use of overseas Pakistani families and not for commercial sales.

Driving Sustainability Environmental Impact and Cost Savings in Automotive Manufacturing

By Muhammad Rafique

Dear Readers: The automotive industry, while a driver of economic growth, is facing severe environmental challenges. This month's articles present solutions to the problems that manufacturing industries face today, including global shifts in manufacturing homes, a fast-growing aftermarket, and environmental regulation, opening the doors for sustainable manufacturing practices that not only benefit the environment but also generate cost savings.

The automotive industry has a golden opportunity to be a leader in environmental responsibility.

Sustainable manufacturing practices are not just a cost-effective solution, but a path towards a cleaner planet and a thriving future for the industry itself.

Come along as we explore the numerous advantages of sustainability, cutting greenhouse gas emissions and slashing costs, and learn how the industry is planning for an eco-friendly future.

Switch to a Circular Economy Model - Unlike the existing linear economy, a circular economy is one where materials are reused and recycled, ensuring that they can be used again and again while extending the lifespan of those selected resources and decreasing the demand for raw materials. This reduces the impact on the environment and saves on material costs as well as landfilling.

In addition, eco-friendly technologies, including electric-powered and hydrogen-fueled machines are being implemented to decrease energy usage of manufacturing activities resulting in cleaner production practices.

Consumers also value sustainable manufacturing and this product sells well for the growing number of consumers who are looking for more eco-friendly products and practices.

Sustainable production adopted by automakers improve their brand reputation and appeal to the increasing number of environmentally-conscious customers making them a force to reckon with for competitors in the market.

Modernizing manufacturing processes to be more efficient and less polluting is another crucial step towards reducing emissions.

Techniques such as additive manufacturing (3D printing), which minimizes material waste, and advanced robotics, which enhances precision and efficiency, help lower the environmental impact of production. Additionally, the use of high-strength, lightweight materials reduces energy consumption during both manufacturing and vehicle operations, contributing to overall emission reductions.

Environmental Impact:

Since the automotive industry is a major contributor to greenhouse gas emissions, impacting climate change, by prioritizing reduced emissions

in manufacturing, the automotive industry can not only contribute to a sustainable future but also pave the way for cleaner, more efficient vehicles for consumers.

Embracing these strategies requires continuous innovation, collaboration between industry players, and government support for research and development.

However, The benefits are clear:

A cleaner environment, potentially lower production costs through reduced energy consumption and waste, and a positive brand image that resonates with environmentally conscious consumers.

One of the primary ways to reduce emissions in automotive manufacturing is through the adoption of energy-efficient practices and the use of renewable energy sources.

By optimizing energy consumption in production facilities, implementing energy-saving technologies, and transitioning to solar, wind, or hydroelectric power, manufacturers can significantly cut greenhouse gas emissions.

Energy audits, retrofitting old equipment, and deploying smart energy management systems are among the strategies that contribute to improved energy efficiency and reduced carbon output.

(i) Reduced Emissions:

Sustainable practices target energy efficiency throughout the production process. This lowers reliance on fossil fuels, leading to decreased greenhouse gas emissions and air pollution. Reducing Emissions in Automotive Manufacturing" underscores the critical importance of adopting comprehensive, innovative approaches to minimize the environmental impact of the automotive industry.

By embracing energy efficiency, modern manufacturing techniques, resource management, emission control technologies, and a culture of sustainability, manufacturers can significantly reduce their carbon footprint and contribute to a greener future.

As the industry continues to evolve, these efforts will not only meet regulatory demands but also drive technological advancements and foster a more sustainable and resilient automotive sector.

(ii) Material Efficiency:

Sustainable practices focus on minimizing waste and utilizing recycled materials in car parts. This reduces the environmental footprint associated with resource extraction and processing. Material Efficiency in Automotive Manufacturing" highlights the critical importance of optimizing material use to achieve both economic and environmental goals.

Through the adoption of lightweight materials, advanced manufacturing techniques, recycling and reuse programs, material substitution, and efficient supply chain management, the automotive industry can significantly reduce waste, lower costs, and enhance sustainability.

As manufacturers continue to innovate and embrace these strategies, material efficiency will play a pivotal role in driving the future of sustainable automotive manufacturing. In the automotive industry, material efficiency is paramount in achieving sustainability, reducing costs, and improving overall production processes.

"Material Efficiency in Automotive Manufacturing" delves into the strategies and innovations that optimize material use, minimize waste, and enhance the lifecycle of automotive components. Join us as we explore how the industry is transforming through smarter use of materials, leading to both economic and environmental benefits.

Material substitution involves replacing traditional materials with more efficient or sustainable alternatives. For example, using bio-based polymers instead of conventional plastics, or replacing certain metal components with composites, can lead to significant material savings and environmental benefits. By exploring and adopting alternative materials, manufacturers can improve the sustainability profile of their vehicles.

(iii) Water Conservation:

Water usage in manufacturing can be significant. Sustainable

practices implement water-saving technologies and wastewater treatment, minimizing water consumption and pollution.

Water Conservation in Automotive Manufacturing" underscores the critical importance of sustainable water management practices in the industry.

Through the adoption of water recycling and reuse systems, efficient water management, alternative water sources, and innovative treatment solutions, automotive manufacturers can significantly reduce their water consumption and environmental footprint.

As the industry continues to evolve, these water conservation strategies will play a vital role in promoting sustainability, protecting valuable water resources, and ensuring a resilient and responsible manufacturing process for the future.

Advancements in water treatment technologies are enabling manufacturers to achieve higher levels of water purity and efficiency.

Solutions such as electrocoagulation, advanced oxidation, and biological treatment processes can effectively remove contaminants and pollutants from wastewater, making it suitable for reuse.

By investing in these innovative technologies, manufacturers can enhance their water treatment capabilities and reduce their environmental impact. One of the most effective strategies for water conservation in automotive manufacturing is the implementation of water recycling and reuse systems. By treating and reusing water within the manufacturing process, companies can significantly reduce their freshwater consumption. Technologies such as membrane filtration, reverse osmosis, and advanced oxidation processes are employed to purify wastewater, making it suitable for reuse in cooling systems, paint booths, and other applications.

Cost Savings:

The automotive industry is making strides towards energy-efficient production. By adopting these strategies, car manufacturers can create a win-win situation for the environment, financial performance, and brand reputation. As technology advances and costs decrease, we can expect even more innovative and efficient approaches to energy use in car manufacturing.

Energy Efficiency in Automotive Manufacturing" highlights the pivotal role of energy-efficient practices in driving sustainability and operational excellence in the industry.

Through comprehensive energy audits, advanced manufacturing technologies, efficient lighting and HVAC systems, renewable energy integration, waste heat recovery, smart manufacturing, lean principles, employee engagement, and energy-efficient equipment, automotive manufacturers can significantly reduce their energy consumption and carbon footprint.

As the industry continues to innovate and evolve, energy efficiency will remain a cornerstone of sustainable manufacturing, contributing to a greener, more resilient future for all.

(i) Energy Efficiency:

Investing in energy-efficient technologies and processes lowers energy consumption, leading to significant cost savings on electricity bills. Energy consumption in car manufacturing is a major cost factor and environmental concern.

Fortunately, the industry is embracing a shift towards energy-efficient practices, paving the way for a greener and more cost-effective future.

Implementing advanced manufacturing technologies plays a crucial role in enhancing energy efficiency. Techniques such as precision machining, robotics, and automation increase production accuracy and speed, reducing energy waste.

Additionally, additive manufacturing (3D printing) minimizes material waste and energy use by building components layer by layer, leading to

more efficient production processes.

(ii) Reduced Waste:

Minimizing waste through material efficiency reduces the need for raw materials, translating to lower production costs.

Additionally, recycling programs can further reduce resource acquisition costs.

Reduced Waste in Automotive Manufacturing"

highlights the essential role of waste reduction in achieving sustainability and operational efficiency in the automotive industry.

Through the adoption of lean manufacturing principles, zero waste to landfill initiatives, material optimization, recycling and reuse programs, eco-friendly materials, waste segregation, energy recovery, water waste reduction, employee engagement, and lifecycle assessments, manufacturers can significantly minimize waste and promote a circular economy.

As the industry continues to innovate and evolve, these waste reduction strategies will play a critical role in fostering a sustainable, resilient, and environmentally responsible future.

(iii) Regulatory Compliance:

Embracing sustainability helps meet environmental regulations, avoiding potential fines and penalties.

Regulatory Compliance in Automotive Manufacturing"

underscores the importance of adhering to a comprehensive array of regulations to ensure safety, quality, and environmental responsibility.

Through diligent compliance with environmental regulations, safety and quality standards, emissions and fuel economy requirements, material and chemical safety rules, trade regulations, data protection laws, and product liability norms, automotive manufacturers can mitigate risks, foster consumer trust, and drive sustainable growth. As the industry evolves, maintaining regulatory compliance will continue to be a critical pillar of successful and responsible automotive manufacturing.

Takeaway from this article:

As the automotive industry continues to innovate, the adoption of sustainable manufacturing practices will be essential for achieving a balance between economic growth and environmental stewardship. By integrating these practices into their core operations, manufacturers can drive positive change, ensuring a cleaner, greener, and more sustainable future for generations to come.

Despite these challenges, the long-term benefits outweigh the hurdles. As consumer demand for sustainable products grows and technology advances, the automotive industry is well-positioned to embrace sustainable manufacturing practices for a greener and more cost-effective future.In conclusion,

"Sustainable Manufacturing Practices in the Automotive Industry: Environmental Impact and Cost Savings"

highlights the transformative potential of sustainable practices in shaping the future of automotive manufacturing.

By embracing sustainability, the industry not only addresses critical environmental challenges but also unlocks significant economic benefits, driving a more sustainable and prosperous future for all.

Challenges remain in terms of initial investment, supply chain integration, and consumer awareness.

However, the long-term benefits are undeniable. As technology advances and consumer demand for sustainable products grows, the automotive industry is well-positioned to embrace a greener and more cost-effective future.

Exclusive written for Automark Magazine, June 2024
By Muhammad Rafique, Head of Production and Maintenance
Foton JW Auto Park (Pvt.) Limited

Servis Tyres Unveils Powerful New Campaign with Global Ambitions

Servis Tyres, a leading Pakistani tyre brand exported to over 40 countries, has truly become a global symbol of quality. With continuous investment in cutting-edge production facilities and technology, Servis Tyres is poised to further elevate Pakistan's economic standing.

Renowned for their commitment to innovation, Servis Tyres consistently sets industry standards. Their highly anticipated Mega Campaign 2024 is no exception, featuring the Turkish superstar Burak Ozcivit.

In a thrilling new TVC, Burak Ozcivit puts Servis Tyres to the test across various challenging terrains. From cobble stone roads to wet and rocky hilly paths, the tyres' exceptional grip and resilience are on full display. The production quality of the TVC is top-notch, capturing dramatic sequences that highlight the advanced tread designs and special rubber polymers of Servis Tyres.

Burak Ozcivit's confident proclamation, "Grip Servis Jaisi tu fikar kaisi!" (With grip like Servis, why worry!), echoes throughout the campaign. This catchy tagline emphasizes the reliability and performance that customers can trust. It perfectly complements Burak's endorsement, further solidifying Servis Tyres' position as "Pakistan's Global Tyre Brand."

This campaign goes beyond showcasing superior quality. It reflects Servis Tyres' global ambition and dedication to excellence. It's a clear message to drivers everywhere: with Servis Tyres, you're in safe hands on any road.

Pakistan secures US$1bn loan for hydropower project

The World Bank – an international financial institution that awards loans and grants for capital projects to low- and middle-income countries – will lend Pakistan US$1 billion to construct the country's largest hydropower plant near Dasu in the northern region of Khyber Pakhtunkhwa Province.

Located at the Dasu Dam, which is fed by the Indus River, the Dasu Hydropower Plant is projected to generate 21 TWh (terawatt hours) annually with an installed capacity of 4,320 MW (megawatts).

The dam itself is a gravity design made of roller-compacted concrete, which can reservoir up to 1.4 billionm3 (370 billion gallons) of water.

The loan is in addition to the original $588 million the World Bank lent the project for preparatory work and also on top of another $700 million loan delivered in 2020 for transmission line work.

Altogether, the World Bank has financed about $2.3 billion of the $4.3-billion project. Additional financing came from a consortium of local banks and foreign commercial financing from Credit Suisse Bank. The country's Water & Power Development Authority is also committed to financing 15% of the project's base cost.

Decades of development for Dasu Dam

It's been a long road for the advancement of the dam and hydropower project, which was originally proposed in 2001, with a feasibility study completed in 2009.

It's being constructed in two phases, with each completed stage allowing a capacity of more than 2,000MW of power generation. Once both phases are complete, it's estimated the first phase will contribute more than 12 billion units of electricity annually while the second will be capable of providing another nine million units.

Although it's been more than 20 years, Pakistan is still on track to complete the project on time next year, which was its stated goal at the onset. It still hopes power generation can commence at the plant as early as the second half of 2024.

Initial groundwork took place in 2014, and contracts for preparatory work were awarded in 2015, with construction starting in 2017.

China Gezhouba Group Company Limited is serving as the main works and civil works contractor and started construction in 2018.

Budget 2023–24: Huge Tax Relief for Hybrid Vehicles

The fiscal budget for 2023–24 has finally been made public, which is fantastic news for Pakistan's hybrid automobile market.

The customs tax (CD) on the import of hybrid electric vehicles (HEVs) in completely built-up (CBU) form has been decreased to 1%, according to the budget papers.

Additionally, the CD for the import of HEVs that are completely knocked down (CKD) units has been decreased.

According to the document, the CD for the import of HEV CKDs is 4% while the CD for the import of PHEV CKDs is 3%.

This ought to have an effect on hybrid vehicle costs in the Pakistani market and motivate a number of new businesses to participate in the hybrid car industry there.

On the other hand, the duty and taxes levied on vehicles above 1300 cc which are manufactured in Asia are being removed.

Apart from this, it has been proposed to reduce the rate of customs duty on import of non-locally manufactured commercial vehicles in the form of CKD from 10% to 5%.

CONTAINERS TO CURTAIN CARRIERS 2.0 SEQUAL OF OUR PUBLISHMENT IN FEB 2024 ED "CURTAIN ON THE WHEELS

CONGRATULATIONS to all those transport companies who want to reduce turnaround times at depots for loading and unloading

By Sumaiyah Murtaza

We have launched the gold standard for transporting palletized cargo especially in the FMCG sector.

Conventionally, the palletizedgoods are transported in heavy modified shipping containers in Pakistan while the rest of the world has moved on to lighter, efficient and aesthetically pleasing "Curtain Sider" trailers.

There is a normal perception of a fabric/curtain to be weak and prone to damage. How come it could serve as a container when installed over a trailer? Also the fleet owner is many a times concerned about the theftof cargo as the cargo seems easily accessible.

However, this is not the case.

Because the fabric comes in various compositions and mesh interweaved within. This type of fabric has extreme fatigue strength and cannot be vandalized easily.

AUTOCOM has recently developed a fleet of curtain trailers that will soon be witnessed on roads in Pakistan and abroad. It is a fully TIR compliant curtain trailer and specifically made for export of palletized cargo.

The fabric of roof is tested against the EN ISO 1421 -1 standard for breaking strength and against DIN 53 363 for tear strength. Here are some results for the fabric installed on Roof tested against the standards.

Also the side curtain fabric is much more in strength than that of a roof. Its breaking or Warp strength is 4000 N/5cm whereas for Roof it is 2500 N/5cm.

Also, for the fact the type of trailer could be opened from right side, top, left side and from back doors, making it more friendly for loading and unloading.

Also you donot need loading and unloading docks for offloading the cargo. With the help of a fork lifter you can easily unload the trailer at your warehouse or wherever needed.

There are some precautionary measures to unlocking it, sliding the curtain, locking it at an interim position, offloading the cargo and locking it back.These handling guidelines are shown step by step in the image.

For unloading of cargo from sides, there is a ratchet tensioner that needs to be opened via pulling and sliding the curtain sideways.

Also in order to protect the profiles on the roof upon which curtains are mounted, it is strongly recommended not to:

1. Allow a person walking on the roof of the trailer, unlike metal superstructure, where there are walk ways for top loading especially in fuel tankers.

2. Allow heavy loads to rest on the trailer top at specific unit area.

3. Allow dew or snow to be accumulated on the curtains roof top.

4. Allow unlocking the roof top, when some external fluid is resting on the top of the trailer.

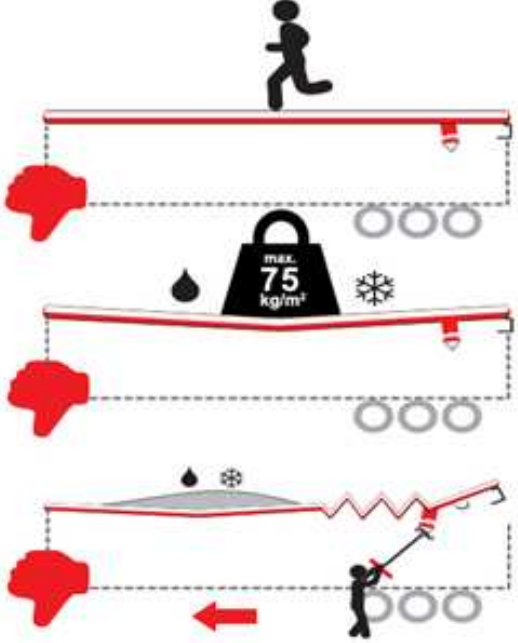
5. Harsh turning of trailers with back doors open.

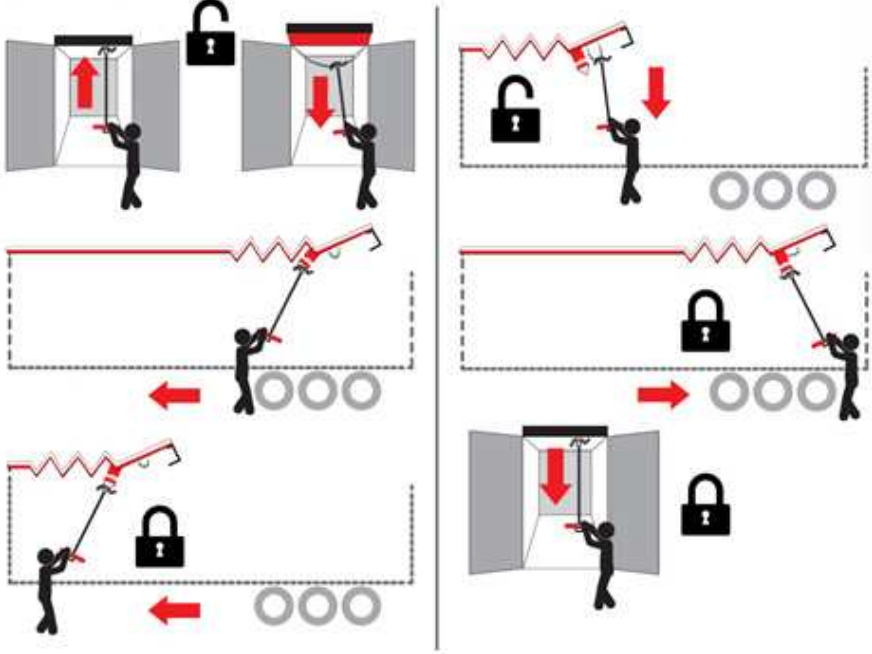
6. Harsh turning of trailer with back doors and roof top unlocked.

You don't need to invest in a new trailer as AUTOCOM is offering to convert your existing flat bed semi-trailer to curtain siders by mouting the "montage".

Following are some of the uses of a curtain truck/trailer.

Top Uses of a Curtain Side Truck





1. Shipping perishable goods
2. Transporting fragile items
3. Shipping large or bulky items
4. Shipping heavy machinery
5. Shipping oversized items

Since it is a light weight trailer (45-foot curtain trailer can weigh as low as 7 tons while a 45' container box trailer would weigh around 10 tons), you can carry more pay load instead of dead weight.

AUTOCOM's Curtain Sider Trailers ensure the compliance on TIR with the following points:

1. The curtain, doors and all the other constituent parts of the load compartment on AUTOCOM's trailer are assembled in such a way that they cannot be opened or closed without leaving obvious trace. This is the primary rule of the TIR compliance.

2. The curtain is designed in such a way that it overlaps the solid parts at the top of AUTOCOM's trailer by at least ¼ of the actual distance between the rollers.

3. The curtain guidance and other movable parts of the system are assembled in such a way that no movable part can be opened or closed from the outside without leaving obvious traces. The curtain guidance and other movable parts are assembled in such a way on your trailer that it is impossible to gain access to the load compartment without leaving obvious traces.

4. The horizontal distance between the rings, used for customs purposes, on the solid parts of our trailer will not exceed 200 mm as required in the TIR regulation.

5. The distance between the tensioning straps on our trailer will not exceed 600 mm as required in TIR regulation.

6. The fastenings used to secure the sheets to the solid parts of the vehicle will fulfil the requirements of TIR as the kit is provided with the steel wire rope of one piece of at least 3 mm diameter.

The launch of AUTOCOM Curtain Sider isn't only our organization's success milestone, but it will prove to be a game changer in the logistics landscape of our country.

We are confident that the fleet operators will welcome this product as, with reduced turnaround times, it will help them reduce the number of vehicles required to complete the job.

AUTOCOM thrives on innovation.

We are indebted to our customers and business partners who keep pushing the boundaries of "conventionallogistics."

We practice **"Change for Good"** that makes us advocates of innovation.

We cannot complain of staying back and experiencing the "Kodak moment".

As the saying goes:

"When the window of opportunity appears, do not pull down the 'curtain'."

Please write to us for further details.

• B7672 •
ROOF

STANDARD

Fabric		100% PES 1100 dtex	
Weight		680 g/m²	DIN EN ISO 2286-2
Lacquering		1/1	
Embossing		Glossy	
Breaking strength	Warp	2500 N/5cm	EN ISO 1421-1
	Weft	2000 N/5cm	
Tear strength	Warp	270 N	DIN 53 363
	Weft	270 N	
Adhesion		90 N/5cm	EN ISO 2411
Temperature resistance		-30/+70°C	DIN EN 1876-2
Light fastness	(except white and (half-) transparent)	7-8	ISO 105 B02
Fire behavior		< 100 mm/min	NFP92 507
Application		Truck/Roof/ Regular	

S=STANDARD – NS=This is not a standard product. Only on request. Minimum 1.000LM

B6000

Fabric / Weefsel / Tissu / Gewebe / Tejido	100 % PES / 1100 dtex	
Total weight / Gewicht totaal / Poids total / Totalgewicht / Peso total	900 g/m²	DIN EN ISO 2286-2 1998
Lacquering / Vernis / Lackierung / Lacado	1/1	
Embossing / Kalander / Calandre / Lackierung / Embossing	Glossy	
Breaking strength Warp Treksterkte Kettng Résistance rupture Chaine Höchstzugkraft Kette Resistencia a la rupture Urdimbre	4000 N/5cm	EN ISO 1421/1 1998
Breaking strength Weft Treksterkte Inslag Résistance rupture Trame Höchstzugkraft Schuss Resistencia a la rupture Trama	4000 N/5cm	EN ISO 1421/1 1998
Tear strength Warp Scheurweerstand Kettng Résistance à la déchirure Chaine Weiterreißkraft Kette Resistencia a la rasgadura Urdimbre	600 N	DIN 53363 2003
Tear strength Weft Scheurweerstand Inslag Résistance à la déchirure Trame Weiterreißkraft Schuss Resistencia a la rasgadura Trama	500 N	DIN 53363 2003
Adhesion / Hechting / Adhérence / Haftung / Adherencia	100 N/5cm	EN ISO 2411 2000
Temperature resistance / Temperatuurduurzaamheid / Tenue à la température / Temperaturbeständigkeit / Resistencia a la temperatura	-30/+70 °C	DIN EN 1876/2 1998
Light fastness (Except white and (half-)transparent) Lichtechtheid (Uitgezonderd wit en (half-)transparant) Tenue à la lumière (Excepté en blanc et (semi-)transparent) Lichtechtheit (Ausnahme weiss und (semi-)transparent) Resistencia a la luz (Excepto blanco / (semi-)transparente)	7-8	ISO 105 B02 1988
Fire behavior / Brandgedrag / Réaction au feu / Brennverhalten / Fire behavior	< 100 mm/min	ISO 3795 1989
Application Truck/Side Curtain		

السلام علیکم

I hope this message finds you well. I wanted to take a moment to reflect on the significant milestone of Green Motorcycle Parts being operational for a year now. It's been a journey marked by unwavering dedication to product quality, and I'm proud to say that we have never compromised on that front. Our commitment to excellence has paid off, and our parts are now being embraced in different areas, with our reach extending from city to city.

Additionally, the purpose behind our slogan, **"Ustaad ka yakeen, Only Green"** was to build trust and reliability among our mechanic brothers. We aimed to create a brand that they could depend on, knowing that the quality of our products would always meet their high standards.

Given the current economic situation in Pakistan, we have also made a concerted effort to keep the prices of our products reasonable, ensuring that more people can afford and benefit from what we offer.

Furthermore, our policy of a **Money-Back Guarantee** truly means that we give money back to our consumers if there is any fault in our product. This policy is a testament to our confidence in the quality of our products and our commitment to customer satisfaction.

Thank you for your continued guidance and support.

Best regards,

Founder

Green Motorcycle Spare Parts

Ch Muhammad Jamil

Millat battery dealers visits by management

FORLAND

FORLAND MOTORS
60 Thousand

Forging Ahead
Defining Excellence

Our Offices:
Head Office: 19.5-KM, Raiwind Road, Lahore.
South Regional Office: Suite 206, The Square BYCHS, Karachi.
North Regional Office: Office No. 10. 1st Floor Plaza 2000 I/8 Markaz, Islamabad.

042-111145263 | 0314-4445263 | www.jwforland.com | jwforland

FORLAND TOTAL CARE

FORLAND x TPL Insurance

MOU Signing Ceremony

Forland has partnered to offer interest-free financing, making vehicle ownership more accessible and affordable. This initiative eases the financial burden, allowing customers to experience Forland's reliability and performance without the stress of interest payments.

First Ever Road Show in Gilgit and Skardu

First-Ever Automobile Road Show Brings Innovation and Excitement to the Majestic Gilgit-Baltistan. Thank you to the people of Gilgit-Baltistan for the overwhelming response and love to Forland.

L-R: Dr. Tahir, Dr. Naeem, Mansoor Rizvi, HE Park Ki Jun, Dr. Seung Jin Maeng

Strengthening Agricultural Engineering Through International Collaboration

PMAS-AAUR's MoU with KSAE and PSAE

Arid Agriculture University - PMAS AAUR and the Department of Agricultural Engineering have successfully established a Memorandum of Understanding (MoU) for cooperation in academic and research activities, particularly in fields such as climate change, water resource management, and alternate energy, among other agricultural sciences.

Dr. Ashraf, Former Chairman PCRWR.

On May 30th, a grand MoU signing ceremony was held at the university campus, headed by the Ambassador to the Republic of Korea, Park Ki Jun, and the Vice Chancellor of the University, Prof. Dr. Muhammad Naeem. The ambassador emphasized Korea's commitment to enhancing the development of Pakistan, especially in agriculture and education, and appreciated the long-lasting friendship between Korea and Pakistan.

The MoU was signed between PMAS-AAUR, the Korean Society of Agricultural Engineering (KSAE), and the

The VC has greeted the Korean Delegation at the University

Pakistan Society of Agricultural Engineering (PSAE), focusing on cooperation in academic and research activities. All parties agreed to cooperate on societal development and areas of mutual academic interest related to research.
This collaboration aims to strengthen scientific and technical partnerships between the two countries.

The cooperation includes joint academic research projects under the Korea-Pakistan partnership, participation in joint conferences, seminars, workshops, and knowledge/skill exchange programs.
Additionally, joint research proposals can be submitted to Korean and Pakistani funding agencies, including KOICA, NRF, and HEC, to secure funding for joint research ventures.

Prof. Dr. Muhammad Naeem, Vice Chancellor of PMAS-AAUR, Mr. Seung Jin Maeng, Ph.D., President of KSAE, and Engr. Mansoor Rizvi, President of PSAE, signed the MoU. Earlier, Prof. Dr. Muhammad Naeem welcomed the ambassador and the Koica delegation, and Dr. Muhammad Azam provided a detailed briefing on the university's educational, research, and extension programs, along with its future plans.

Later in the day, an International Seminar on "Transferring Innovative Technologies for Environmental Water Management between Korea and Pakistan" was held at PMAS-AAUR. The seminar was jointly organized by the PMAS-AAUR Office of Research Innovation and Commercialization, the Faculty of Agricultural Engineering, KSAE, and PSAE. Dr. Muhammad Ashraf, former Chairman of the Pakistan Council of Research in Water Resources (PCRWR), presented a thought-provoking article on the challenges Pakistan faces in water resource management, which was well received by the audience.

In his concluding remarks, Engr. Mansoor Rizvi thanked the foreign experts, including Je Ho Yeon, Country Director, for their participation.

He emphasized the importance of knowledge sharing and innovative solutions in addressing environmental challenges.
He assured the attendees that the Pakistan Society of Engineers provides a platform for agricultural engineers to exchange views, share knowledge, and receive training on IoT and new developments.
He also highlighted the impact of climate change on agriculture and praised the contributions of Korean agricultural engineers.
He expressed confidence that Pakistani engineers would benefit from Korea's experience in improving storage capacity, operation, and maintenance of reservoirs, and addressing deteriorated infrastructure issues.
The seminar's success was attributed to the efforts of Dr. Muhammad Azam and his team, whose contributions were highly appreciated by the participants.

Yousuf Dewan Companies revives the Shehzore and electrifies Pakistan with Honri VE in a Dual Launch

Those who thought that an electric car for the masses of Pakistan was a far-fetched dream were awestruck as Eco-Green Motors Limited, under Yousuf Dewan Companies, took the automobile market by storm. Yes, it's here—an electric car for Pakistanis to be driven without worrying about fuel prices. Simultaneously, Dewan Farooque Motors Limited marked the return of a legend, bringing back the Shehzore with unmatched features.

Eco-Green Motors Limited Unveils the Honri VE

Eco-Green Motors Limited unveiled the all-new Honri Ve2.0 in a festive event titled "Future Assembled." The first locally assembled hatchback electric vehicle is now on the roads of Pakistan. "The Honri Ve is nothing short of a dream come true for Pakistan. A recharge takes you 200 kilometers without worrying about fuel saving 50,000 PKR per month which is a dream come true. The interior and exterior are futuristic and state-of-the-art. Priced at 3,999,000 PKR, it offers remarkable value for its features," said Saleha Hassan, Director of Sales and Marketing, at the event.

Developed with Honri, a Chinese automobile expert, the Ve2.0 is tailored for Pakistani roads. It boasts a 200 km range per charge, advanced technologies like ABS, EBD, and TPMS, and an IP67 dustproof and water-resistant lithium battery. "We are committed to bringing this green change and ensuring vehicle charging decks are installed across Pakistan," said a Punjab Government representative.

With over nine dealerships across Pakistan, Eco-Green Motors Limited is set to make a significant impact in the automobile market, with more electric vehicles on the horizon.

Dewan Farooque Motors Limited Reintroduces the Shehzore

The Shehzore, a legendary lightweight truck, is back. Earlier today, Dewan Farooque Motors Limited launched the all-new Shehzore at "Future Assembled," marking the line-off of the Dewan Farooque Motors Limited Sujawal Plant.

"The Kia Shehzore reappears as an unmatched proposition, now offering the 'STANDARD CABIN' at 3,859,000 PKR, and the 'KING CABIN' at 4,179,000 PKR, in addition to the 'GRAND CABIN' light commercial pickup priced at 7,499,000 PKR. The Shehzore boasts a powerful high-economy engine, the biggest carrying deck with the best loading capacity, focusing on durability and reliability.

The Shehzore Grand Cabin is the first of its kind in the LCV industry with an extra row of seating along with a cargo carrying deck," said Dewan Muhammad Yousuf Farooqui.

Chinese EV maker BYD partners with HUBCO subsidiary to introduce EVs in Pakistan

HUBCO announced on last month that its wholly-owned subsidiary (Hub Power Holdings) – through its associated company Mega Motor Company (Private) Limited – is entering into a new line of business in electric vehicles with BYD Auto Industry Company Limited, the world's leading new energy vehicle manufacturer

The development was shared by HUBCO in a notice to the Pakistan Stock Exchange (PSX) on last month.

"We hereby convey the following information: Hub Power Holdings Limited, a wholly-owned subsidiary of The Hub Power Company Limited, through its associated company, Mega Motor Company (Private) Limited, is entering into a new line of business in electric vehicles, with BYD Auto Industry Company Limited, in Pakistan," HUBCO said in its notice.

Earlier in April, BYD announced a strategic collaboration with its local partner Mega Conglomerate (Private) Limited to introduce innovative New Energy Vehicle (NEV) solutions in Pakistan.

BYD, known for its pioneering work in electric vehicle production, notably outpaced Tesla in 2023 to claim the top spot for the highest number of electric vehicles manufactured globally.

This partnership comes at a critical juncture as Pakistan aims to reduce its carbon footprint and adopt more energy-efficient modes of transportation.

Meanwhile, HUBCO in its notice on last month, just after the Eid holidays said that the consummation of this new venture will include execution of definitive agreements and purchase of assets and is subject to corporate and regulatory approvals and consents.

"This is an overall positive development for the country's auto sector, as the entry of new players will promote competition in the local market said analyst.

The analyst was of the view that further details regarding the deal need to come to light such as EV models to be introduced, prices, battery range etc.

"Normally EVs are priced higher than the gasoline-based autos. Therefore, it is expected that the EVs will most probably target the high-income segment.

"Moreover, there is also an issue of lack of EV-related infrastructure in the country. EVs have not attracted much traction in Pakistan due to a lack of charging stations and other infrastructure," he said.

Pakistan, like many other developing countries, faces challenges related to air pollution and rising greenhouse gas emissions. The introduction of BYD's EVs is expected to help address these issues by offering a cleaner alternative to traditional gasoline and diesel vehicles.

However, for a low-income nation like Pakistan, environmental issues generally take a back seat.

Car / Light Vehicles Price List

Suzuki

Model	Price
Alto 660CC VX	Rs. 2,331,000
Alto 660CC VXR	Rs. 2,707,000
Alto 660CC VXL AGS	Rs. 2,894,000
Alto 660CC AGS	Rs. 3,045,000
WAGON-R VXR 1000cc Euro II	Rs. 3,214,000
WAGON-R VXL 1000cc Euro II	Rs. 3,412,000
WAGON-R AGS 1000cc Euro II	Rs. 3,741,000
CULTUS VXR MT 1000cc	Rs. 3,858,000
CULTUS VXL MT 1000cc	Rs. 4,244,000
CULTUS VXL AGS 1000cc	Rs. 4,546,000
Swift GL MANUAL 1197cc	Rs. 4,421,000
Swift GL CVT 1197cc	Rs. 4,719,000
Swift GLX CVT 1197cc	Rs. 5,429,000
RAVI with Deck 800cc	Rs. 1,856,000
SUZUKI APV VX 1500CC	Rs. 8,068,000
SUZUKI Jimny 1500cc	Rs. 7,837,000
BOLAN Van 800cc	Rs. 1,940,000
BOLAN Cargo 800cc	Rs. 1,944,000

Prince DFSK Pakistan

Model	Price
K01S 1000CC, 2 Seater,1 Ton	Rs. 2,070,000
HUMSAFAR K07 1000CC, 7Set	Rs. 2,669,000
Prince Pearl 800cc	Rs. 1,850,000

Honda

Model	Price
Honda CITY 1.2 MT	Rs. 4,649,000
Honda CITY 1.2 PT	Rs. 4,689,000
Honda CITY 1.5 PT	Rs. 5,439,000
Honda Aspire 1.5 MT	Rs. 5,659,000
Honda Aspire 1.5 PT	Rs. 5,849,000
Honda Civic 1.5 M-CVT	Rs. 8,329,000
Honda Civic 1.5L Oriel M CVT	Rs. 8,659,000
Honda Civic RS 1.5L Turbo CVT	Rs. 9,899,000
Honda BRV 1.5 CVT S	Rs. 6,299,000

United

Model	Price
Alpha 1000cc Manual	Rs. 1,849,000
Bravo 800cc Manual	Rs. 1,519,000

Isuzu D-Max

Model	Price
Hi-Spark - 4X2 Single Cabin DL, Turbo 2499cc	Rs. 6,900,000
Hi-Spark - 4X2 Single Cabin Turbo 2499cc S	Rs. 7,000,000
Hi-Lander - 4X4 Single Cabin, Turbo 2499cc	Rs. 8,200,000
Hi-Lander 4X4 Double Cabin, Turbo 2499cc	Rs. 9,600,000
V-Cross 4X4 DC M/T, Turbo 2999cc (Luxury Grade)	Rs. 11,100,000
V-Cross 4X4 Double Cabin A/T (LG) Turbo 2999cc	Rs. 11,800,000

Changan Motors

Model	Price
Alsvin 1.3L 5-speed MT	Rs. 3,799,000
Alsvin 1.5L DCT AT	Rs. 4,349,000
Alsvin 1.5L DCT LUMIERE AT	Rs. 4,549,000
Karvaan Std 1.0L 7-Seat	Rs. 2,779,000
Karvaan Plus 1.0L 7-Seat	Rs. 2,999,000
M9 1.0L	Rs. 2,179,000

KIA

Model	Price
Picanto 1.0L Manual	Rs. 3,600,000
Picanto 1.0L Automatic	Rs. 3,850,000

Forland

Model	Price
C10 (W/out Deck/Audio/Heater)	Rs. 1,949,000
C10 (without Heater & Blower)	Rs. 2,049,000
C10 (Full Options)	Rs. 2,099,000
C10 Plus with 9 ft Deck	Rs. 2,119,000
C19	Rs. 2,649,000
T5	Rs. 3,049,000
T5 Prime	Rs. 3,149,000
C311-NT (Without Deck)	Rs. 4,049,000
C314 - NT Without Deck	Rs. 4,199,000
C717 (Without Deck)	Rs. 5,849,000
CX17 (Without Deck)	Rs. 6,499,000
Safaari Comfort 1.5L 7 Seater	Rs. 3,499,000
Safaari Deluxe 1.5L 10 Seater	Rs. 3,599,000
Safaari 1.3L Delux	Rs. 3,499,000
Safaari 1.5L Delux	Rs. 4,099,000
Safaari 1.5L Premium	Rs. 4,299,000

Hyundai

Model	Price
Porter 2.6L High Deck	Rs. 4,079,000
Porter 2.6L Flat Deck	Rs. 4,059,000
Porter 2.6L Deckless	Rs. 4,039,000
Elantra GL 1.6L	Rs. 6,399,000
Elantra GLS 2.0L AT	Rs. 6,930,000
Sonata 2L AT	Rs. 9,979,000

Toyota

Model	Price
YARIS 1.3L GLI MT	Rs. 4,479,000
YARIS 1.3L GLI CVT	Rs. 4,760,000
YARIS 1.3L ATIV MT	Rs. 4,730,000
YARIS 1.3L ATIV CVT	Rs. 5,604,000
YARIS 1.5 ATIV X CVT Beige	Rs. 6,255,000
YARIS 1.5 ATIV X CVT BLACK	Rs. 6,319,000
COROLLA 1.6L Dual VVT-i MT	Rs. 5,969,000
COROLLA 1.6L Dual VVT-i AT	Rs. 6,559,000
COROLLA 1.8L CVT SR	Rs. 7,509,000
COROLLA 1.8L CVT SR BLK	Rs. 7,549,000
HILUX Revo Double Cabin	
4x4-D/CSTD E MT	Rs. 11,454,000
Revo 188D 4X4 G MT DIESEL	Rs. 12,549,000
Revo 188D 4X4 V AT DIESEL	Rs. 13,849,000
Revo 188D 4X4 V AT DIESEL	Rs. 14,419,000
FORTUNER VARIANTS	
Fortuner G 4X2 STD 2.7L AT (PETROL)	Rs. 14,449,000
Fortuner V 4X4 2.7L AT V (PETROL)	Rs. 16,999,000
Fortuner 4X4 S4 AT (DIESEL)	Rs. 17,999,000
Fortuner 4X4 Legender	Rs. 18,999,000
Fortuner 4X4 GR-S (DIESEL)	Rs. 19,899,000

KIA K2700 Shehzore by Dewan

Model	Price
STANDARD K2700 (Single Cabin)	Rs. 3,879,000
KING CAB K2700 (Extended Cabin)	Rs. 4,199,000
GRAND CAB K2700 (Double Cabin)	Rs. 7,519,000

Note: Including Freight Charges

SUVs Price List

HYUNDAI	SantaFE Hybrid Signature	Rs. 14,699,000
	SantaFE Hybrid Smart	Rs. 12,990,000
	Tucson 2.0L Gasoline AWD	Rs. 8,659,000
	Tucson 2.0L GLS Sports FWD	Rs. 8,030,000
	Tucson 2.0L GLS	Rs. 7,165,000
	Staria HGS	Rs. 11,009,000
	Staria 2.2D AT	Rs. 8,909,000
	Staria 2.2D MT	Rs. 8,499,000
	Staria 3.5	Rs. 8,364,000
KIA	KIA Sportage AWD 2.0L	Rs. 8,470,000
	KIA Sportage FWD 2.0L	Rs. 7,740,000
	KIA Sportage Alpha 2.0L	Rs. 7,300,000
	KIA Sportage Black Limited Edition	Rs. 9,000,000
	Kia Stonic 1.4L EX	Rs. 5,350,000
	Kia Stonic 1.4L EX+	Rs. 6,280,000
	Grand Carnival 3.5L GLS PP	Rs. 16,000,000
	Kia Sorent 2.4L FWD (CKD)	Rs. 9,085,000
	Kia Sorent 2.4L AWD (CKD)	Rs. 9,249,000
	Kia Sorent 3.5L FWD (CKD)	Rs. 9,499,000
TOYOTA	Hybird CVT Low Variant	Rs. 7,698,000
	Hybird CVT Smart Mid V	Rs. 8,208,000
	Hybird CVT Premium High V	Rs. 8,408,000
CHANGAN	Oshan X7 FutureSense 1.5L Turbo	Rs. 8,949,000
	Oshan X7 Comfort 1.5L Turbo	Rs. 8,299,000
MG	MG HS Essense (CKD) Local Assemble	Rs. 8,099,000
	MG ZS EV Essense 51.1 KWH 360KMS	Rs. 12,990,000
	MG ZS EV LONG RANGE 72.6 KWH 500	Rs. 14,999,000
	MG 4 EV Excite 51 KWH 350KMS	Rs. 10,999,000
	MG 4 EV Essence 64 KWH 445KMS	Rs. 12,990,000
REGAL	Pince GLORY 580 Pro 1.5L Turbo	Rs. 6,790,000
	Pince GLORY 580T 1.5L CVT	Rs. 5,610,000
	Pince GLORY 580 1.8L	Rs. 5,806,000
GHANDHARA	Tiggo 8 Pro 1.6L	Rs. 9,550,000
	Tiggo 4 Pro 1.5L	Rs. 6,999,000
SAZGAR	GWM - Haval H6 1.5T FWD (CKD)	Rs. 9,189,000
	GWM - Haval H6 2.0T AWD (CKD)	Rs. 10,559,000
	GWM Haval H6 Hybrid	RS. 11,886,000
	BAIC BJ40 PLUS 2.0T	RS. 10,750,000
	Haval Jolion Local Assembled HEV	Rs. 9,295,000

HYUNDAI

PEUGEOT
2008 Active
Rs. 5,899,000
2008 Allure
Rs. 6,599,000

HONDA HR-V
VTI 1.5L
Rs. 7,649,000
VTI-S
Rs. 7,899,000

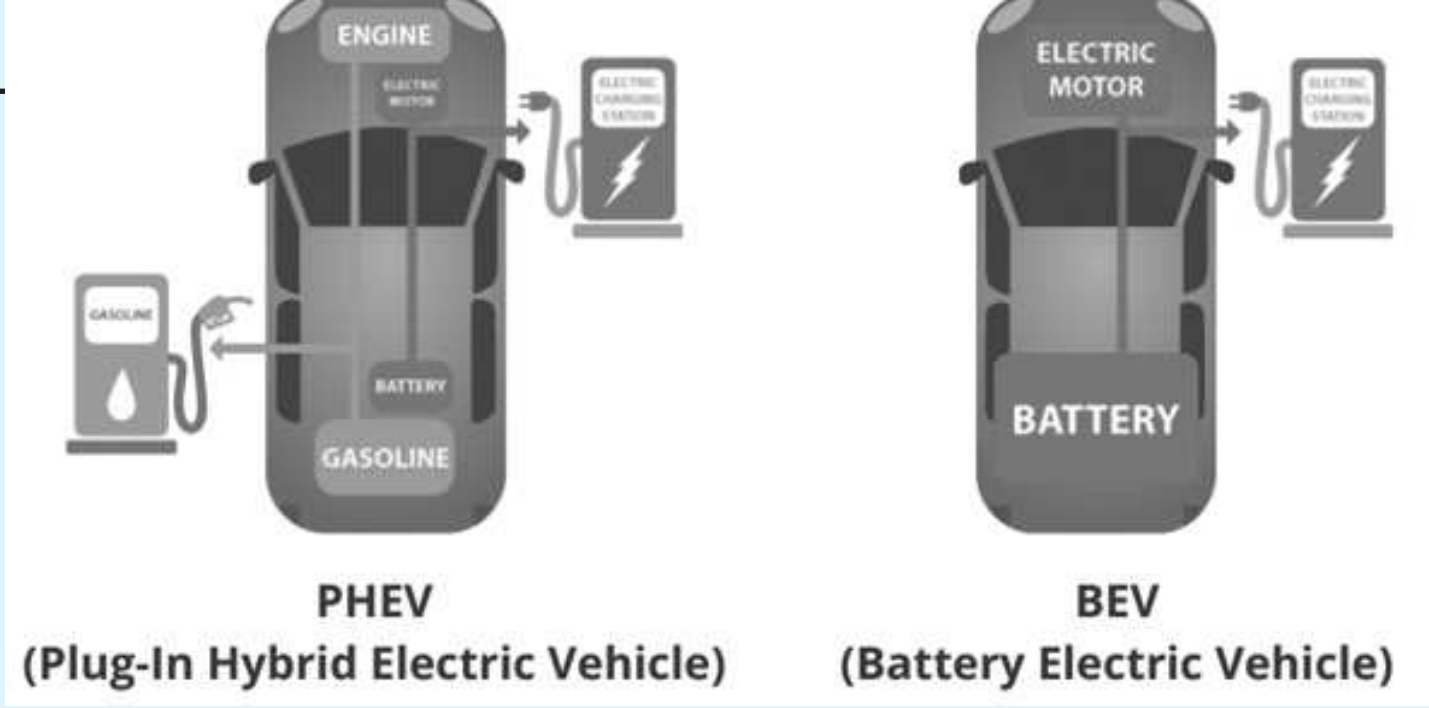
Toyota Cross Electric Hybird
High Rs. 9,849,000
Mid Rs. 9,399,000

Toyota Cross Non-Hybird
1.8x (High):
Rs. 8,899,000
Mid Rs. 9,399,000

MG HS Excite
Rs. 7,199,000/=

DFSK SERES 3
Rs. 8,390,000

SAZGAR



Why hybrid cars sales are growing while EVs are hitting speed bump

EVs may be hitting a bit of a speed bump, as sales slow down. But hybrid vehicle sales are revving up. 7 On Your Side spoke to an industry expert to find out why some consumers are opting to keep gas in the tank, at least for now.

Just when you thought hybrids had run out of gas, sales are taking off. Increasingly, many consumers see them as the best of both worlds.

"It is a great way to save money on your transportation bill. They function like typical automobiles, so you use the existing infrastructure to refuel them, and even if you have a plug-in hybrid, they operate much like you would expect," said Brian Moody, executive editor with Kelley Blue Book.

There is a price advantage, too. They tend to be cheaper than electric cars, but the biggest factor is you don't have to worry about finding a charging station. Hybrids use the on-board gas engine to recharge the batteries.

"Most people are responding to hybrids because it feels like it works with their lifestyle today. They don't have to make many compromises," Moody said.

Like all electric cars, there are government rebates for hybrids, too.

"You can now get taxpayer funded incentives from the government even if you are buying a used hybrid or electric car, so that is kind of a game changer, too," Moody said.

So, are electric cars dead? Not quite. The experts say the future car still has a plug.

"So when they're better, less expensive, more reliable, easy to charge, quick to charge, when all these things are met, people will make the transition, because my opinion is, if most people drove an electric car, they would like it," Moody said.

All electric is still the future, but in the meantime, hybrids are a baby step to electrification driving more and more consumers.

Punjab Green Tractor Scheme 2024

In Lahore, Punjab Chief Minister Maryam Nawaz has given the go-ahead for the "CM Punjab Green Tractor Scheme" to support farmers throughout the province, part of extensive efforts by the government to aid growers.

The approval was given during a meeting led by Maryam Nawaz and attended by PML-N President Nawaz Sharif. A comprehensive briefing was provided during the meeting regarding the Kissan Package.

In addition, the meeting approved several other initiatives aimed at supporting farmers in Punjab, such as the creation of a Kisan bank to offer accessible loans to farmers.

Subsidy on Tractors

In the meeting, the chief minister turned down a proposal to provide a subsidy of Rs600,000 on a tractor. Instead, she instructed the authorities to offer a 70% subsidy on small tractors and a 50% subsidy on large tractors.

Number of Tractors to be Distributed Under the New Scheme

The government has opted to raise the number of tractors to be distributed under the Punjab Green Tractor Scheme 2024 to 10,000 units.

The chief minister has instructed that the first phase of the tractor scheme be completed within a year.

Who is eligible for the Green Tractor Scheme?

Farmers who own six to 50 acres of land are eligible to apply for the Green Tractor Scheme.

The government has not yet provided information on how to apply for subsidized tractors. Further details will be shared here once they are available.

Gasoline Engine Motorcycles / Scooters Retail Price List

United Motorcycles

No.	Brand & Model Name	Retail Price
1.	UD-70cc REGULAR	Rs. 109,500
2.	US-100cc Regular	Rs. 108,500
3.	US-100cc Alloy Rim	Rs. 117,000
4.	US125	Rs. 164,500
5.	US-100 (Scooter)	Rs. 255,000
6.	UD-70cc (Alloy Rim)	Rs. 119,500
7.	US-100cc Special	Rs. 120,000
8.	US-100cc (Plus)	Rs. 120,000

Yamaha

No.	Brand & Model Name	Retail Price
1	Yamaha YBR-125Z	Rs. 396,000
2	Yamaha YBR-125Z-DX	Rs. 454,000
3	Yamaha YBR-125	Rs. 466,000
4	Yamaha YBR-125G (R & B)	Rs. 485,000
5	Yamaha YBR-125G Matt DG	Rs. 488,000

70cc Motorcycles

No.	Brand & Model Name	Retail Price
1.	Crown 70cc Jazba+	Rs. 103,000
2.	Crown 70cc HD Plus	Rs. 111,500
3.	Crown 70cc Self Start	Rs. 116,000
4.	CITY 70cc Regular	Rs. 105,000
5.	CITY 70cc with Alloy Rim	Rs. 115,000
6.	Metro Mr-70	Rs.107,500
7.	Super Star 70CC Xcellence	Rs. 103,500
8.	Super Star 70CC XL PLUS	Rs. 108,500
9.	Super Star 70CC SELF START	Rs. 113,500
10.	Super Power 70cc Dollar	Rs. 105,500
11.	Super Power Scooty	Rs. 170,000
12.	U.Star 70cc Durbi	Rs.97,000
13.	Unique UD-70cc Regular	Rs.117,500
14.	Unique UD-70cc Plus	

100cc/125cc and Others

No.	Brand & Model Name	Retail Price
1	Super Star 100cc Royal (self with Alloyrim)	Rs. 180,000
2	Crown CR100 Excellence	Rs. 109,500
3	Crown CR100 Self Start	Rs. 122,500
4.	Crown 100cc Fighter	Rs. 111,500
5.	Crown CR125	Rs. 147,000
6.	Crown CR125 Self Start 5G	Rs. 162,000
7.	Crown CR125 Self Start (5 Gears) ALLOY RIM	Rs. 175,500
8.	Metro MR-125 Euro-II	Rs. 127,500
9.	Zxmco ZX-125-Euro II	Rs. 130,000
10.	Zxmco ZX-200cc	Rs. 305,000
11.	City 100cc Self	Rs. 125,000

Road Prince Motorcycle

No.	Brand & Model Name	Retail Price
1	70CC (STD)	Rs. 109,500
2	70CC PASSION PLUS	Rs. 119,500
3	70CC CLASSIC	Rs. 115,500
4	110CC POWER PLUS	Rs. 118,500
5	110CC JACKPOT	Rs. 118,500
6	125CC (STD)	Rs. 165,000
7	125CC Twister	Rs. 150,000
8	ZEUS-EV SCOOTY	Rs. 260,000
9	ZEUS-XR SCOOTY	Rs. 278,000

Suzuki

No.	Brand & Model Name	Retail Price
1	GR-150	Rs. 547,000
2	GD 110S	Rs. 352,000
3	GS-150	Rs. 382 ,000
4	GSX-125	Rs. 499,000

Honda Motorcycles

No.	Brand & Model Name	Retail Price
1	CD-70	Rs. 157,900
2	CD Dream	Rs. 168,900
3	Pridor	Rs. 208,900
4	CG-125 STD	Rs. 234,900
5	CG-125S Red/Black	Rs. 282,900
6	CB-150F (R&B)	Rs. 493,900

Hi-Speed Motorcycles

No.	Brand & Model Name	Retail Price
1	Hi-Speed 70cc	Rs. 105,000
2	Hi-Speed 70cc HSR	Rs. 110,000
3	Half Unit SR 100cc	Rs. 102,000
4	Classic SR 100cc	Rs. 115,,000
5	Alpha 100cc	Rs. 220,000
6	Freedom SR 200	Rs. 385,000

MOU Signing Ceremony

Mehran Commercial Enterprises is proud to announce that it is the first auto parts company to sign an MOU with Chinese firms for developing car antennas in Pakistan. This significant milestone was achieved at the Pakistan Business Investment conference organized by the Government of Pakistan in Shenzhen, which aimed to facilitate the relocation of Chinese firms to Pakistan.

We are honored to be part of this prestigious conference and extend our heartfelt gratitude to the government and the entire team who worked tirelessly to make this event a success.

Auto analysts criticise 'faux pas' budget Call for 24-year auto policy to stabilise industries amid economic turmoil

Auto sector analysts described the federal budget for 2024-2025 as a faux pas and called for a 24-year sustainable policy for all industries, including the auto sector. They emphasised that the government must involve the cabinet, political parties, and industrialists to form this long-term strategy without delay

Sustainability is crucial for industry growth, but local policies change frequently, often after a news bulletin, forcing business leaders to constantly adjust their decisions. This volatility makes business and investment in the country very risky. The auto industry, in particular, has faced challenges for two and a half years and may continue to do so next year.

Analysts urged the government to adopt serious austerity measures and make sacrifices to boost the morale of locals, industrialists, and the salaried class. These groups have faced significant challenges, exacerbated by new taxes on salaries and the overall industry in the budget.

uto Sector Analyst and IBA Assistant Professor Dr Aadil Nakhoda said the budget is likely to affect car buyers' purchasing power, as increased taxes may deter them. However, a shift to price-based taxation could lead to dynamic changes, making price competition more important in price-sensitive segments.

The government has withdrawn several incentives for EVs and hybrids, which may not be ideal given the need to adopt this technology. The government should consider relaxing import constraints, particularly on parts and components, to allow the industry to recover and offer consumers more options. A consumer-centric approach is necessary, as consumers have already been burdened by inflation and taxes over the past few years.

Auto Sector Analyst Mashood Khan remarked, "The budget does not suit the overall industry, including the struggling auto industry, which has been facing difficulties for over two years. One laudable aspect is the slight restriction on new or used Completely Built-Up (CBU) units, though this is not a long-term strategy. While it benefits the local industry to some extent, it is not sufficient.

The government must support local industry, providing incentives to spur industrialisation and encourage industrialists. The budget's impact on the auto industry is neutral; industrialists are already experiencing challenges and will likely continue to do so."

Khan noted that the bike industry is performing better, and the tractor industry has gained momentum. However, the lack of incentives for the bus and truck industry is disappointing. The government should have provided incentives to encourage the purchase of local buses and trucks instead of imports.

He stressed that the government, bureaucrats, policymakers, and the Special Investment Facilitation Council (SIFC) must recognise that the industry is key to resolving the economic crisis. A 24-year-long industrial policy is essential to revitalise industrial growth quickly.

Japanese carmaker Toyota set to end massive Olympic sponsorship deal

Vehicle manufacturer Toyota is set to end its massive sponsorship deal with the International Olympic Committee after this year's Paris Olympics, according to reports in Japan.

Toyota has a contract through the 2024 Paris Games, which was reported to be valued at $835 million when it was announced in 2015. It included four Olympics beginning with the Pyeongchang 2018 Winter Games in South Korea and ran through Paris.

It has been widely reported to be the IOC's largest sponsorship deal.

Citing "sources close to the matter," Japanese news agency Kyodo said Toyota was unhappy the way sponsorship money was used by the IOC. The news agency, quoting the sources, said the money was "not used effectively to support athletes and promote sports."

Reached by the Associated Press, Toyota declined to comment and said financial details were private.

Toyota pulled its Olympic advertising in Japan during the pandemic-delayed Tokyo Games in 2021. It said it was responding to strong public sentiment in the country against staging the Olympics and the IOC's push to hold them.

The IOC did not comment on the reports when contacted by AP.

"We have an agreement with Toyota until the Olympic Games Paris 2024," the IOC said. "We continue to work closely together in preparation for Paris and we look forward to bringing these plans to life."

Toyota is supplying 3,000 fuel-cell vehicles for the Paris Games to show off its green technology.

The IOC generates 91% of its income from selling broadcast rights (61%) and sponsorships (30%).

Suzuki to close automobile plant in Thailand

Suzuki Motor Corporation has decided to close the plant of its automobile subsidiary in Thailand, Suzuki Motor (Thailand) Co., Ltd. (hereinafter "SMT") by the end of 2025.

Suzuki Motor Corporation has decided to close the plant of its automobile subsidiary in Thailand, Suzuki Motor (Thailand) Co., Ltd. (hereinafter "SMT") by the end of 2025. This decision was made as a part of reviewing Suzuki's global production structure.

Following the announcement of the eco-car project by the Thai government in 2007, Suzuki applied for the project and established SMT in 2011, after receiving approval of the project. The automobile plant started its production in 2012, and produced as much as 60,000 units annually including exports. Meanwhile, in the course of promoting carbon neutrality and electrification globally, Suzuki had been considering optimizing global production sites within the group.

Consequently, we decided to close SMT plant by the end of 2025.

Even after the closing of its plant, SMT will continue its sales and after-sales services to meet the customer needs in Thailand, through importing CBUs from plants within the ASEAN region as well as Japan and India.

Also, in order to contribute to achieving carbon neutrality goals promoted by the Thai government, the company will introduce electrified models including hybrid vehicles.

Turkey is now Imposes 40% Import Tariff on Chinese Cars

Turkey is concerned about an increasing trade deficit and the potential negative impact of low-cost Chinese cars on its local industry

- Chinese cars imported into Turkey will face a 40% tariff.
- For less expensive cars where the tariff would be under $7,000, a flat duty of $7,000 will be imposed instead.
- This measure aims to protect Turkey's local industry and prevent further deterioration of the country's trade balance.

The battle against inexpensive Chinese cars intensifies as Turkey declares a 40 percent duty on Chinese automotive imports. This decision mirrors similar actions by the U.S., which recently announced an increase in import duties on Chinese EVs from 25 percent to 100 percent.

Turkey's trade ministry stated that the measure aims to safeguard the country's balance of payments and protect local industry. Last year, Turkey's trade deficit reached $45.2 billion.

The additional responsibilities take an extra stride, specifically aiming at the most economical cars available in China. This is done by setting a minimum tariff of $7,000 per vehicle. In cases where the calculated duty at 40 percent falls below $7,000, a minimum duty of $7,000 will be enforced.

The scope has widened to include Chinese hybrid and combustion vehicles, marking another setback for China. Several countries, concerned about an oversupply of discounted Chinese products resulting from excess capacity and local subsidies, have imposed tariffs.

Following the lead of the U.S. and now Turkey, the European Union is poised to unveil similar measures targeting Chinese electric vehicles this week. However, the EU must proceed cautiously, as European automakers fear retaliation from China, given their dependency on sales in the Chinese market and their own manufacturing and importation of models from China.

Honda and Mitsubishi to Establish New Company Named ALTNA Co!

The two companies decided to establish a joint venture company and work together to address challenges toward the societal implementation of EVs and the realization of decarbonized society such as the following:
1) Optimization of the EV usage cost;
2) Enhancement of the lifetime value of batteries, which contain various limited resources, and improvement of resource circulation within Japan; and
3) Accommodation of the increasing demand for adjustment capacities through grid storage batteries toward an increase in the proportion of renewable energy in the energy mix in Japan.

Toyota to recall over 100,000 U.S. vehicles over potential engine stall

Toyota will recall over 100,000 SUVs and pickup trucks in the U.S. over debris in the engine potentially causing it to stall, the National Highway Traffic Safety Administration (NHTSA) said on Tuesday.
The recall includes some Toyota Tundra pickup trucks and Lexus LX600 SUVs equipped with the Japanese automaker's V35A six-cylinder engine.
Debris from the manufacturing process may contaminate the engine and cause the main bearings to fail, which can result in an engine stall and loss of drive power, the NHTSA said.
The NHTSA added that a remedy was currently under development.

Toyota lost over $15 billion in market value last month after being caught falsifying tests

• Toyota shares have plunged more than 5% since May 31, the last trading day before the scandal broke on June 3. Shares of Mazda saw a larger loss, falling 7.7% since May 31.

• The wide-ranging inspection by the transport ministry also found that irregularities were also found in certification applications from automakers Honda, Suzuki and Yamaha Motor.

Shares of Japanese automakers have largely plunged since the country's Transport Ministry found false data used to certify certain models a week ago on last month.
The stock of Japan's largest carmaker, Toyota fell more than 5.4% last week, after the scandal broke on June 3, but is recovering on last month. The automaker lost 2.45 trillion Japanese yen ($15.62 billion) in market value last week alone.
Shares of Mazda, the country's second-largest automaker, dropped 7.7% in the same period, and lost 80.33 billion yen in market capitalization last week.
The wide-ranging inspection by the Ministry of Land, Infrastructure, Transport and Tourism also found irregularities in certification applications by other automakers Honda, Suzuki and Yamaha.
Last week, Honda's stock fell 5.75% and Yamaha Motor lost 2.2%, while Suzuki Motor inched down 0.3%.
Shares of all those companies were trading higher.
Toyota was up 1.7%, Honda gained 2.13% and Mazda increased 1.7%. Suzuki and Yamaha were also marginally higher.

West is "afraid" of competitive Chinese electric cars, BYD Chairman says

Chinese EVs continue to surge in the global market.
Chinese electric automakers are making significant strides into the European market. This trend is expected to accelerate despite potential trade tensions.
Dataforce's data revealed that Chinese brands like MG Motors and BYD accounted for nearly 9% of all battery-electric vehicles sold in Europe last year. This figure is projected to surge to a hefty 20% by 2027, according to industry group Transport & Environment's remarks in March this year.
BYD presents itself as a major force in the Chinese EV industry. In 2022, it officially halted the production of its popular gas-powered cars. Its commitment to electrification has paid off with an astounding 3 million electric and hybrid vehicle sales last year.
Amid the intensifying trade tension, the BYD boss called for the industry on last month to welcome fierce competition as a way to accelerate the shift towards electric vehicles. It has initiated a price war in China by slashing prices across their entire range of EVs and plug-in hybrids to undercut ICE-powered cars, directly challenging established automakers like Toyota and Volkswagen.

GTR Tyre participates in Automechanika Exhibition, Istanbul - Turkey

Thal Engineering participation in Automechanika Istanbul

Thal Engineering

automechanika ISTANBUL

Corporate Events Glimpses

MG Shell Collaboration
Launch event of MG Shell lubricants exclusively for MG Motors

Tesla Model Y becomes world's best-selling car surpassing Toyota RAV4

With more than 1.2 million Model Ys sold in 2023, Tesla's SUV becomes the first electric car to be the world's best selling vehicle for a full year

It has been officially confirmed that in 2023, the Tesla Model Y became the best selling car globally and the first electric car to hold the title.

Since going on sale in 2020, the Model Y has been the driving force behind Elon Musk's electric vehicle company's on going success. It has eclipsed the Tesla Model 3 saloon in terms of sales since 2021 and has been the best selling electric car in the UK for the past two years.

The hybrid Toyota RAV4 SUV, which topped the chart in 2022 and the Toyota Corolla, which holds the record as the best selling car in history, were both overtaken by Tesla's electric family SUV in the world standings last year as it sold over 1.2 million units.

Automotive industry intelligence company, Jato Dynamics, is the source of this data. Last year, 151 countries sold 78.32 million new cars worldwide, with SUVs making up nearly half of the total. In spite of Tesla's absence from several emerging regions, the Model Y was still able to hold the top rank for the year. Tesla is "a brand made for the developed world" according to Felipe Munroz, senior analyst at Jato Dynamics, but that hasn't stooped the Model Y from eclipsing all rivals.

Munoz went on to say: "While it cannot currently target these markets, there is potential for emerging markets to be explored as an additional source of growth in the future."

When focusing on the UK market, things seem a little less ideal for the Tesla Model Y. As of June 2024, no custom-built electric cars feature in the list of the UK's best selling cars for the year to date and the last time the Tesla Model Y was included in the top 10 sellers for any month was back in March.

The upgraded Model Y, codenamed "Juniper," may still arrive early in the following year and carry over the improvements found in the redesigned Tesla Model 3, despite Elon Musk's recent denials that one would arrive before the year ends.

Electric Scooters - Retail Price List
AUTOMARK

Pak Star Automobile (Pvt) Ltd.,

No.	Brand & Model Name	Retail Price
1.	Merto LY (Super Bike) 400W	Rs. 155,000
2.	Metro Thrill 1200W	Rs. 189,000
3.	Metro M6 (Empower) 1200W	Rs. 220,000
4.	Metro T9 600 Watts	Rs. 260,000
5.	Metro E8S 1000 Watts	Rs. 270,000
6.	Metro E8S Pro 2000 Watts	Rs. 360,000
7.	Metro T9 Pro 1200 Watts	Rs. 270,000

Crown EV & Scooty

No.	Brand & Model Name	Retail Price
1.	EV Scooty 350W	Rs. 88,000
2.	EV Scooty 650W	Rs. 152,000
3.	EV Scooty T10 650W	Rs. 170,000
4.	EV Scooty 800W	Rs. 176,000
5.	Scooty Pro 1200Watts	Rs. 220,000
6.	Scooty T20 Plus 1000Watts	Rs. 250,000
7.	Scooty Pro Plus 1200Watts	Rs. 255,000
8.	EV-70 1000W	Rs. 215,000

YADEA Electric Bikes

No.	Brand & Model Name	Retail Price
1.	EV Scooty Ruibin 800W	Rs. 199,000
2.	EV Scooty T5 800W	Rs. 245,000
3.	EV Scooty G5 1200W	Rs. 280,000

United Auto Industries

No.	Brand & Model Name	Retail Price
1.	EV Smart Scooter 10000W	Rs. 258,000
2.	EV Sharp Scooter 1000W Lithium Battery	Rs. 333,000

EVEON Electric Bikes

No.	Brand & Model Name	Retail Price
1.	EVEON Joy 1000W	Rs. 175,000
2.	EVEON Pronto 1200W	Rs. 199,000
3.	Zuboo Leopard 2000W	Rs. 260,000

Evee Electric (Pvt) Ltd

No.	Brand & Model Name	Retail Price
1.	Flipper 350 Watts	Rs. 95,000
2.	Nisa 600 Watts	Rs. 155,000
3.	Gen Z 800 Watts	Rs. 170,000
4.	Evee C1-1200 Watts	Rs. 200,000
5.	Evee C1 Pro-1200 Watts	Rs. 230,000
6.	Evee C1 Air-2000 Watts	Rs. 300,000

Benling EV (Pvt) Ltd.,

No.	Brand & Model Name	Retail Price
1.	Mini Classic Scooty 48v 23Ah	Rs. 120,000
2.	Roshni 72v 23Ah	Rs. 195,000
3.	Roshni Plus 60v 35Ah	Rs. 205,000
4.	Roshni Pro 72v 35Ah	Rs. 215,000
5.	Knight Rider 72v 35Ah	Rs. 240,000

New Asia Vehicles

No.	Brand & Model Name	Retail Price
1.	Scooty G7 1200w	Rs. 220,000
2.	Scooty F507 1000w	Rs. 245,000
3.	Scooty A700 1500w	Rs. 265,000

MS Automobile

No.	Brand & Model Name	Retail Price
1.	MS Jaguar E-70	Rs. 239,000
2.	MS Jaguar E-70 Supreme	Rs. 246,000
3.	MS Jaguar E-125	Rs. 349,000
4.	ENZO EV Scooty 1000W	Rs. 209,000
5.	MS E-Heavy Bike	Rs. 369,000

Hi-Speed/TAILG

No.	Brand & Model Name	Retail Price
1.	TAILG i300 1000W	Rs. 205,000
2.	TAILG i500 1200W	Rs. 230,000
3.	TAILG i700 1500W	Rs. 280,000
4.	TAILG i900 2000W	Rs. 355,000

An engine reborn

That's how Japanese automaker Toyota introduced plans to cast a futuristic spin on the traditional internal combustion engine

During a three-hour presentation at a Tokyo hall Tuesday, the car manufacturer giant announced it would offer lean compact engines that also run on so-called green fuels like hydrogen and bioethanol, or get paired with zero-emissions electric motors in hybrids.

This comes as many competitors in the auto industry are pushing for fully electric vehicles. China is revving its push for Battery Electric Vehicles, and its own BYD is threatening to outshine Tesla in that push.

Toyota's Chief Executive Koji Sato said the "engine is optimized for the electrification era" with hopes of helping push the world into "carbon neutrality."

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Toyota's Chief Executive Koji Sato said the "engine is optimized for the electrification era" with hopes of helping push the world into "carbon neutrality."

Toyota already has a well-known hybrid car — the Prius — with a gas engine and an electric motor. It switches between the two to deliver a cleaner drive.

In future hybrids, the electric motor is set to become the main driving power, and the new engine will be designed to take a lesser role and help it along, according to Toyota.

Domestic allies Subaru Corp. and Mazda Motor Corp., both preparing ecological engines designed to meet the inevitably upcoming stringent emissions standards, joined Toyota 's presentation billed as a "multi-pathway workshop."

"Each company wants to win, but we can be faster if we work together," said Sato.

But details on when the engines were coming to market weren't disclosed.

The legacy of the car engine could be felt everywhere.

Mazda said that its prized rotary engine, introduced more than 50 years ago, was being adapted for electric vehicles.

Subaru, meanwhile, showcased its trademark smaller horizontally opposed engine. While Chief Technology Officer Tetsuro Fujinuki confirmed the company was working on a great "Subaru-like" electric vehicle, he said the company wasn't about to dump the engine altogether. Toyota, too, is working on stylish BEVs.

The executives said Tuesday that energy supply conditions differed globally, adding that products had to meet various customer needs and the investments needed for mass-producing BEVS were enormous.

Toyota officials also repeatedly noted that 5.5 million jobs were at stake in the overall supply chain for vehicle production in Japan nowadays, so a sudden shift to electric cars wasn't economically possible or socially responsible.

Takahiro Fujimoto, a professor of business at Waseda University, believes electric vehicles are a key solution for reducing emissions. But they still have weak points, such as large amounts of emissions produced while making lithium-ion batteries, a chief component.

In Japan, for instance, commuters use trains, so that may be a better ecological choice for transportation.

How Much Does a Hybrid Car Actually Consume?

Hybrid cars have gained significant popularity over the past decade, hailed for their fuel efficiency and lower environmental impact compared to traditional internal combustion engine vehicles.

However, a common question potential buyers have is, "How much does a hybrid car actually consume?"

This article delves into the factors that influence a hybrid car's fuel consumption and provides a clearer understanding of what to expect in real-world driving conditions.

Understanding Hybrid Technology

Hybrid cars use a combination of an internal combustion engine and one or more electric motors to power the vehicle. The most common types are:

1. Full Hybrids: Can run on the electric motor, the combustion engine, or a combination of both.

2. Mild Hybrids: The electric motor assists the engine but cannot power the car on its own.

3. Plug-in Hybrids (PHEVs): Have larger batteries that can be charged externally, allowing for longer electric-only driving ranges.

Official Fuel Consumption Ratings

Manufacturers provide official fuel consumption ratings based on standardized testing procedures.

These ratings are expressed in miles per gallon (MPG) in the United States or liters per 100 kilometers (L/100 km) in many other countries.

For example, a popular full hybrid like the Toyota Prius is rated around 54 MPG (4.7 L/100 km) combined city/highway by the Environmental Protection Agency (EPA).

Real-World Fuel Consumption

While official ratings offer a baseline, actual fuel consumption can vary widely based on several factors:

1. Driving Habits: Aggressive acceleration, frequent braking, and high speeds can significantly reduce fuel efficiency. Hybrid cars are most efficient in stop-and-go traffic where the electric motor can do more work.

2. Terrain: Driving in hilly or mountainous areas requires more power and thus more fuel than driving on flat terrain.

3. Climate: Extreme temperatures can affect battery performance and fuel efficiency. Cold weather can reduce the effectiveness of the battery, while hot weather often necessitates air conditioning use, both of which can increase fuel consumption.

4. Load and Usage: Carrying heavy loads, towing, and driving with additional passengers can increase fuel consumption.

Real-World Examples

In practice, drivers often report varying fuel consumption figures for the same hybrid models. For instance, real-world data from users of the Toyota Prius might range from 45 MPG to 60 MPG (5.2 to 3.9 L/100 km), depending on their specific driving conditions and habits. Plug-in hybrids, such as the Chevrolet Volt, can achieve even higher fuel economy figures when their battery is regularly charged, sometimes exceeding 100 MPG equivalent (MPGe) when driving mostly on electric power.

Electric Mode Efficiency

Plug-in hybrids offer the added advantage of driving on electric power alone for a limited range, typically between 20 to 50 miles (32 to 80 km) depending on the model. In electric mode, the car uses no gasoline, but the efficiency depends on the cost and source of electricity. The efficiency of the electric motor is often measured in MPGe, which translates the energy used from electricity into equivalent gallons of gasoline. For example, a plug-in hybrid might have an electric efficiency of 100 MPGe, meaning it uses energy equivalent to what a gasoline car would use to travel 100 miles on one gallon of gas.

Conclusion

A hybrid car's fuel consumption depends on various factors, making it crucial for potential buyers to consider their driving habits and typical conditions.

On average, hybrid cars offer substantial fuel savings compared to traditional gasoline vehicles, with real-world consumption figures often aligning closely with official ratings under ideal conditions. However, real-world performance can vary, sometimes significantly. Prospective buyers should test drive hybrid models under their typical driving conditions to get a better sense of potential fuel savings. Overall, hybrid cars remain a practical and efficient choice for reducing fuel consumption and environmental impact.

Honda to end production of mini bikes amid stricter emissions rules

Honda Motor Co. is planning on ending the production of its mini motorcycles with 50 cc or smaller engines by November 2025 amid the need to comply with a stricter vehicle emissions standard, sources familiar with the matter said Saturday.

The automaker has the largest market share for mini motorcycles in the engine size category. The Super Cub series, which Honda first began selling in 1958, has manufactured over 100 million units over the years to become the most popular motorcycle in the world.

The Super Cub series has garnered acclaim for its fuel efficiency and is commonly used in Japan by the postal service and for newspaper deliveries.

However, the popularity of 50 cc or smaller motorcycles has waned in recent years due to the proliferation of electric bicycles and the rise of electric scooters.

Around 1.98 million motorcycles in the category were shipped in 1980, but the number has plunged to about 90,000 as of 2023, according to the Japan Automobile Manufacturers Association.

Honda regards it as difficult to produce mini motorcycles that meet Japan's new emissions regulation, aligning with stricter global emissions standards set to be enforced in November 2025, in terms of cost-effectiveness, according to the sources.

Toyota Subsidiary to Close its Largest U.S. Plant, Cut 1,300 Jobs

A Toyota subsidiary will shut down its largest auto parts plant in the U.S. over concerns about a difficult path to "sustainable profitability."

Hino Motors Manufacturing U.S.A. opened the facility in Marion, Arkansas, in 2006, making truck frames and axles for Hino commercial vehicles as well as for its Toyota parent. It is by far the U.S. division's largest operation, accounting for about 70% of its workforce in the country.

In a notice posted on its website, Hino indicated that its board of directors elected to "withdraw from the parts business" at the suburban Memphis plant at a May 31 meeting.

The facility, which employs some 1,300 workers, is scheduled to shut down by the end of 2027.

Hino, according to the Arkansas Democrat-Gazette, told investors that the Marion plant had an operating loss of $189 million in its most recent fiscal year, and company officials concluded that "recovering sustainable profitability" at the site would be "difficult," the May 31 document read.

The company said the move would allow it to "redirect" its focus toward its U.S. truck operations, and that it would treat its Arkansas employees with "consideration and sincerity."

Hino operates a truck plant in West Virginia and an administrative headquarters in Detroit.

State and local officials vowed to provide support for Marion employees affected by the closure.

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HEAD OFFICE :

United House: 75-E Moulana Shoukat Ali Road,
Johar Town, Lahore Pakistan.
+92 42 111 786 221
info@unitedmotorcycle.com.pk
/unitedmotorcycle /unitedmotorcycle
www.unitedmotorcycle.com.pk

REGIONAL OFFICE MULTAN :

53, Hassan Parwana Colony,
Azmat Wasti Road, Chowk Dera Adda
Multan Pakistan.
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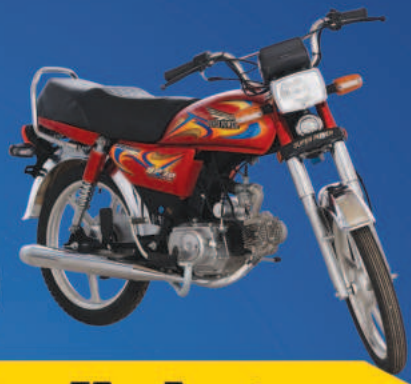

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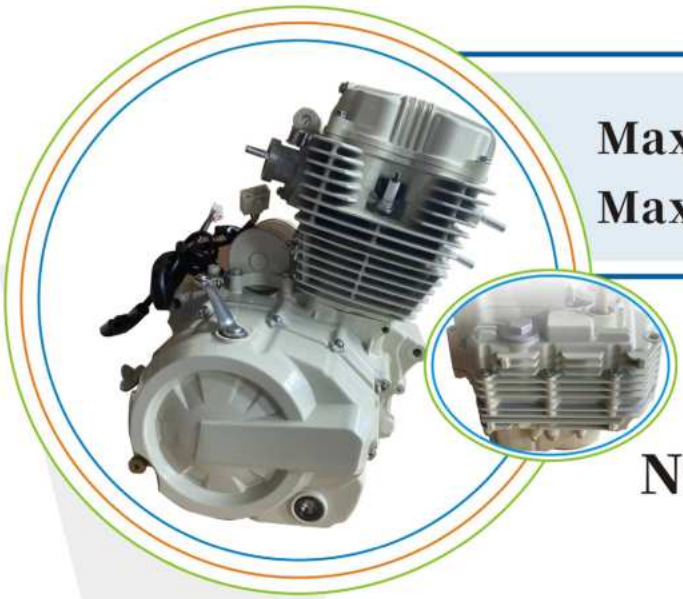

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