WORLD ECONOMY AND INTERNATIONAL COOPERATION · МИРОВАЯ ЭКОНОМИКА И МЕЖДУНАРОДНОЕ СОТРУДНИЧЕСТВО

Vestnik MIRBIS. 2023; 3(35)': 31–42. Вестник МИРБИС. 2023. № 3(35)'. С. 31–42.

Original article

DOI: 10.25634/MIRBIS.2023.3.3

TOGG Automotive Brand Potential from Regional Market Perspective

Mahmud Amino^{1,2}, Sergey Yu. Chernikov^{1,3}

- 1 Peoples' Friendship University of Russia named after Patrice Lumumba (RUDN University), Moscow, Russia.
- 2 <u>mahmudamino97@gmail.com</u>
- 3 chernikov syu@pfur.ru, https://orcid.org/0000-0001-7524-4438

Abstract. The burgeoning electric vehicle market has become a compelling area of inquiry worldwide. In the European Union, stakeholders in the automotive industry are striving to derive requisite energy from renewable sources, and are reconfiguring vehicular end products to partially (hybrid) or fully satisfy their energy demands with such sources. Despite this, electric cars persist in making inroads into our quotidian existence, representing a dynamic and self-generating sphere that garners intensified interest from automakers.

Purchase subsidies continue to hold a significant role in the purchase of electric cars, although their impact is limited to the implementation process and the form rather than the overall trend. This trend is evident across all continents, with major automobile manufacturers already announcing their own models of electric cars. Despite the increasing number of publications and sales, the issue of whether electric cars represent a solid trend or a niche solution for specific conditions, such as many "green energy" technologies, remains a topic of debate. Nevertheless, numerous states have incorporated electric cars in their strategic policies. Consequently, this study aims to enhance comprehension of the product specifications pertaining to the newly-introduced TOGG, which could potentially lead to a competitive advantage.

Electric vehicles, which were once perceived as mere "show-off" novelty items, are now emerging as a viable mode of transportation, being both environmentally and economically appealing. This marks a significant and noteworthy technological shift within the global automotive industry. An investigation was performed to ascertain TOGG's current standing in neighboring markets and its capacity to compete within the industry.

Key words: electric vehicle, Turkey brand, TOGG, automotive promotion, regional EV markets.

For citation: Amino M. TOGG Automotive Brand Potential from Regional Market Perspective. By M. Amino, S. Yu. Chernikov. DOI: 10.25634/MIRBIS.2023.3.3. *Vestnik MIRBIS*. 2023; 3: 31–42. *JEL: M21, M31*

Научная статья УДК 332.02

Потенциал автомобильного бренда TOGG в региональной рыночной перспективе

Махмуд Амино^{4,5}, Сергей Юрьевич Черников^{4,6}

- 4 Российский университет дружбы народов имени Патриса Лумумбы (РУДН), Москва, Россия.
- 5 <u>mahmudamino97@gmail.com</u>
- 6 chernikov syu@pfur.ru, https://orcid.org/0000-0001-7524-4438

Аннотация. Рынок электромобилей неуклонно растет во всем мире и, соответственно, становится привлекательной областью исследований. В ЕС заинтересованные стороны автомобильной промышленности стремятся получать столь необходимую энергию из возобновляемых источников энергии и разрабатывают конечные продукты автомобилей и других транспортных средств таким образом, чтобы частично (гибридные) или полностью удовлетворять свои энергетические потребности за счет возобновляемых источников энергии. Тем не менее электромобили продолжают активно входить в нашу повседневную жизнь и становятся динамично и автономно развивающимся направлением, к которому проявляют бурный интерес автопроизводители. Субсидии на покупку остаются важнейшим элементом при приобретении электромобиля, но они влияют лишь на форму и скорость внедрения, но не на общую тенденцию. Это явление не обошло стороной ни один континент земного шара, так как все ведущие автопроизводители уже объявили о выпуске собственных моделей электромобилей. Несмотря на большое количество публикаций и растущие продажи, до сих пор ведутся споры о том, является ли это устойчивым трендом или все же нишевым решением для конкретных условий, как многие технологии

«зеленой» энергетики. Тем не менее, многие государства включают электромобили в свои стратегические планы. Таким образом, цель данного исследования — дать более полное представление о потенциале недавно появившегося турецкого бренда TOGG и его возможных конкурентных преимуществах. Всего несколько лет назад электромобили были нишевым малофункциональным товаром показного потребеления. Однако сейчас они постепенно становятся вполне экономически привлекательным средством передвижения, обозначив одну из наиболее заметных и важных технологических трансформаций в мировой автомобильной промышленности. Анализ проводился с целью определения текущего положения компании TOGG на смежных региональных рынках и его способности успешно на них конкурировать.

Ключевые слова: электромобиль, турецкий бренд, TOGG, продвижение автомобилей, региональные рынки электромобилей.

Для цитирования: Aмино M. TOGG Automotive Brand Potential from Regional Market Perspective / M. Амино, С.Ю. Черников DOI: 10.25634/MIRBIS.2023.3.3 // Вестник МИРБИС. 2023; 3: 31–42. JEL: M13, O14, O33

Introduction

Electric vehicles were once viewed as a "show-policies. off" novelty, but are now gradually emerging as a highly appealing mode of transportation from both "metabolic gap" between the amount of fossil energy an environmental and economic standpoint. This resources they consume and produce, the progress evolution is thought to be the most significant and is rather small. In the current global turbulence many noteworthy technological changes within the global economy sectors are forced to change their business automotive industry [Lejarraga 2016]. Despite the plans, business models, production models and even abundant literature and rising sales figures, there products. In EU the stakeholders of the automotive remains a debate regarding whether this trend is industry have aimed to obtain the much needed a sustainable one or whether it will remain a niche energy from renewable energy sources, and are solution for specific circumstances, much like other redesigning the final products of automobiles and This phenomenon has impacted every continent (hybrid) or completely from renewable energy on the planet, with all of the major automakers sources. In fact, according to the Statista report², introducing their own electric vehicle models. The the number of electric or hybrid cars are expected to European Union has even designated 2035 as a exceed 77 million in 2025. The developing countries point of no return, and many experts and analysts like Turkey are also trying to cope with the trend. predict that by this deadline, European nations will not only discontinue the production of new gasoline and diesel vehicles, but will also gradually phase out their existing internal combustion engine cars in automobile market, dating back to the 1820s in favor of electric alternatives.

into our daily lives continues to progress, resulting in 2008 that a race toward innovation began for in dynamic and autonomously developing areas automakers. With its stronghold in the luxury vehicle that generate rapid interest from car producers. market, Tesla's success helped propel EVs to the It is worth noting that the high price of electric forefront of the automotive industry. The segment vehicles, primarily due to battery cost, as well as two dominated the 2022 New York Auto Show with the technological barriers, namely insufficient range presentation of various all electric models, including and lack of charging infrastructure, remain among sport utility vehicles (SUVs) and pickup trucks. These the most critical economic obstacles to further fleet are particularly popular in the mass motorized U.S. expansion. Although purchase subsidies remain a market, where light trucks represented over three crucial element when acquiring an electric car, they quarters of light vehicle sales in 2021³. only impact the form and speed of implementation, rather than the overall trend. Nevertheless, many 2 Electric vehicles: A global overview. Statista: [website]. Available

states have included electric cars in their strategic

Despite many countries aiming to close the "green energy" technologies [Krieg 2017; Clark 2005]. other vehicles to meet their energy needs partially

EV Automotive Industry Overview and Development of TOGG Brand

Electric vehicles have a rich history in the Western Hungary, the Netherlands, and the United States. Nonetheless, the integration of electric cars However, it was not until Tesla unveiled the Roadster

at: https://www.statista.com/study/134904/electric-vehicles-aglobal-overview/ (accessed: April 18, 2023). Access after payment.

³ OICA statistics 2022. OICA: [website]. Available

steep growth in new electric vehicle registrations vehicle market to get an accurate picture of the between 2020 and 2021, China claimed pole current status quo and the steps actors need to take position. Sales of new energy vehicles in China in order to promote market growth. Talks of banning started advancing before 2018, and EV sales grew by the sale of gasoline and diesel cars are underway in around 155 percent between 2020 and 2021. China's Europe; the UK officially announced in November widespread promotion of battery electric vehicles is 2020 the plan to end sales of vehicles with an in part linked to its goal of achieving independence internal combustion engine (ICE) by 2030, and the from oil consumption a goal that many countries EU 27 set a 2035 deadline for this same goal in June have now set in an effort to improve transport 2022. Automakers also made similar commitments, sustainability.

The global electric vehicle fleet significantly the European Parliament. increased in 2020 and 2021, propelled by factors such as soaring gas prices, greater environmental market leader, other automakers have entered the awareness, and scheduled bans on internal race. In 2022, China's BYD retired its ICE product combustion engine vehicles. EV production and the lines to focus on EVs, which comprised most of the used EV market are also expected to surge over the brand's sales. BYD's success led to the brand ranking next decade.

10 percent of electric car spending worldwide, with emissions scandal that started in 2015, Volkswagen

at: https://www.oica.net/category/productionstatistics/2022-statistics/ (accessed: April 18, 2023).

While Europe and the United States recorded a Therefore, it is important to look at the entire electric with Volkswagen Group setting targets in line with

While Tesla has been considered the uncontested second worldwide for electric car sales in 2021, with 2021 government spending represented just over deliveries overtaking Tesla as of August 2022. After its consumer spending making up close to 90 percent. has also been investing heavily in electric vehicles, ranking in the top four manufacturers worldwide for EVs in 2021. Volkswagen was also the leader in research and development spending that same year.

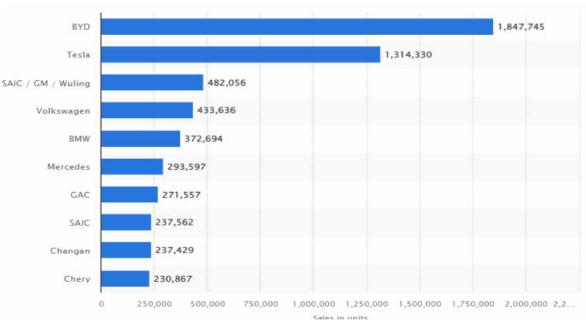


Figure 1. Estimated plug-in electric vehicle sales worldwide in 2022 by brand

Source: Electric vehicles worldwide. Statista : [website]. Available at: https://www.statista.com/study/11578/electric-vehicles-statista-dossier/ (accessed: May 27, 2023). Access after payment.

industry of electric car main components – battery This experience has been researched in other contries

While From Figure 1, it is seen that the China and major power systems. Chinese government is and US are leading the electric vehicles via BYD also providing lots of subsidy and tax incentives in and TESLA, with Chinese cars taking the lead. this venture and significantly contributing to the This is the result of structural efforts by Chinese charging infrastructure. These actions have paved government that have created and supported the the way to great success of BYD at Chinese market.

and Turkey specifically. However, it can be seen from EV progress, if one looks at the number of vehicles Figure 2 that Turkey is still near the starting point in purchased by users in Turkey market by engine type.

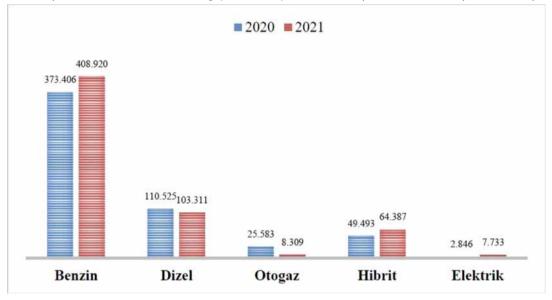


Figure 2. Vehicle Sales by Engine Type in Turkey

Source: Macroeconomic Evaluation report 2022. ODMD: [website]. Available at: www.odmd.org.tr/folders/2837/categorial1docs/3364/Makroekonomik%20 <u>Değerlen dirme%20-%20Aralık%202022.pdf</u> (accessed: April 18, 2023).

Electric Vehicles - Vehicle Sales

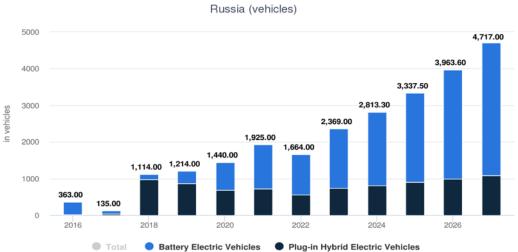


Figure 3. Russia EV vehicle sales

Source: [Electric Vehicles — Worldwide 2023].

compared to the first eight months of 2019. There worldwide and estimate sales for the next few years. was also an increase in hybrid vehicle sales, which reached around 9,000 in the first eight months of the electric vehicle market patterns have been drastically year. Although this shows an encouraging upward interrupted in 2023, as the Russian government trend for electric and hybrid vehicles, the picture changes when hybrid sales are compared to vehicles that consume other fuel types. The data shows that sales of electric and hybrid vehicles in Turkey remain low compared to sales of fossil fuel vehicles. The

According to the Automotive Distributors Turkish EV market is rather low compared to EV sales Association, 223 electric vehicles (excluding hybrids) in the regional adjacent markets of neighboring were sold in Turkey in 2020 - a 104% increase countries and unions. Figures 3-6 show EV vehicles

> It is important to note, however, that the Russian introduced a number of stimulating measures like free parking, 30% subsidized car cost and preferential car loans for appropriate car sales¹. This was due

Market is alive: what would occur with Russian car sales in Russia in 2023: RBC report. Available at: https://www.autonews.

to localization of some Chinese EVs under Russian brands, and can potentially lead to a significant

increase in 2023 sales up to approximately 15 000

ru/news/63c0fc4f9a7947467d6c4ebd (accessed: July 21, 2023).

Electric Vehicles - Vehicle Sales GCC (thousand vehicles) 15.07 in thousand vehicles 11.84 2.16 0.31 0.45 0.25 0.23 0 2016 2018 Plug-in Hybrid Electric Vehicles **Battery Electric Vehicles**

Figure 4. GCC Countries EV Vehicle Sales Source: [Electric Vehicles — Worldwide 2023].

Despite hasty development, the car market of the GCC However, the wealthy middle class and environmental region is majorly dependent on conventional automobiles, impact are slowly encouraging the adoption of hybrid and as the region is one of the major producers of crude oil. plug-in hybrid electric vehicles as can be seen above.

Electric Vehicles - Vehicle Sales

EU-27 (million vehicles) 1.05 2016 2018 **Battery Electric Vehicles** Plug-in Hybrid Electric Vehicles

Figure 5. EU-27 Countries EV Vehicle Sales Source: [Electric Vehicles — Worldwide 2023].

advanced in the world, with most of the experts (TOBB) as a joint venture of five stakeholders. TOGG's predicting its future hasty growth, which will now launch in 2023 was a result of a long process from have additional stimuli due to raising petrol and the preparation phase in 2015 to unloading the first energy prices. With the goal of making a technological vehicle [Demir 2020]. TOGG which is designed with and economic advancement, Turkey has developed reference to Turkish cultural elements, expected to and lauched its TOGG (Türkiye Otomobili Girişim produce five electric, smart and connected C-SUV, Grubu) brand of high-end electric automobiles C-Hatchback, C-MPV, C-Sedan and B-SUV type [Demirer 2022]. TOGG was officially established on automobiles by 2030. The localization level of TOGG 25 June 2018 by Anadolu Grubu Holding A.Ş., BMC C-SUV model production would start from 51% in Otomotiv Sanayi ve Ticaret A.Ş., Turkcell İletişim 2023 and is expected to reach 65% in 2026². Hizmetleri A.Ş., Zorlu Holding A.Ş, and the Union

The EU EV market is certainly among the most of Chambers and Commodity Exchanges of Turkey

² Bakan Varank: Togg minimum yüzde 51 yerlilikle piyasaya

In terms of technical specifications, the model a pre-order application lottery in March 2023 on TOGG T10X comes with two different batteries Trumore App and the company official website providing a range of 300+ km or 500+ km. The in aim of choosing the winners of lottery for the customers can choose between single e-engine rear- 20,000 vehicle that will be delivered in 2023, the wheel drive (RWD) version offering 200 horsepower surprising result was getting the company more or a double-e-engine all-wheel drive (AWD) system than 170000 pre-order applications to buy T10X offering a total of 400 horsepower. TOGG will be model automobile. able to reach 80% traction battery charge level in 30 minutes with fast charging. The car will accelerate announced unprecedented support for TOGG sales to 0-100 km/h in 7.6 seconds in the engine option start. First of all, Government decided to provide that offers 200 horsepower, and in 4.8 seconds in the TOGG loan support for citizens who are willing to buy engine option that offers 400 horsepower. Also, the TOGG T10X from public banks such as Ziraat Bank, battery will be guaranteed for 8 years1. The prices Vakif Bank and Halk Bank which covers 50% of the of the T10X initially announced were ranging from car price for 36 months and only 0.99% interest rate². over 49000 USD for V1 RWD Standard Range to over Also reducing tax rate for TOGG T10X from 60% to 63000 USD for V2 RWD Long Range. TOGG brand has 10% while increasing the Chinese EV vehicles tax to been presented to the world for the first time at the 40% in aim to support the local brand production³. Consumer Electronic Show (CES) held in Las Vegas, In addition to consumer support, government the United States in 2021. Since that time, the media announced a number of support measures to to world is following all updates seriously, which made TOGG manufacturer, such as customs duty exemption the brand makes noise in all Europe, with finalizing for TOGG machinery imports, VAT exemption and promotion event by the president that sent the first refund on the building & construction expenses, TOGG cars to other country leaders as present.

which is a digital platform (free app on play withholding support for 10 years and corporate tax store) that redefines the mobility experience, deduction until 31 December 20324. the application aims to provide a personalized and user-oriented experience with technologies such as fintech (Financial technologies), insurtech depends on current conjuncture of supply and (insurance technologies), blockchain, IoT and demand. But in case of a rather new product that artificial intelligence. This app took a year and a half stakeholders weight of a government is slightly from TOGG company to develop it and launch in higher than that of manufacturers and consumers. line with the automobile. Every time TOGG officials EV's success is not possible without government talked about the company's electric car, they used pushing to improve charging infrastructure and the concept of 'smart device' instead of automobile providing subsidies for a starting period of sales. In [Yaprak 2023].

TOGG started offering its products locally in the Turkish Market, opened many offices and contact 2 Togg kredi desteği nedir? Cumhuriyet: news agency. Available points where public can arrange for driving test at: https://www.cumhuriyet.com.tr/ekonomi/togg-kredi-destegiand experience the vehicle. It's plan to produce nedir-togg-tasit-kredi-destegi-ne-kadar-togg-kredisi-vadesi-neand deliver 20000 vehicles by the end of 2023, and 1 million vehicles by 2030. The company opened 3 Elektrikli araç vergilerine Togg ayarı. Hurriyet news agency: news

çıkacak. 2025'te de minimum yüzde 65 yerliliği yakalayacak: Anadolu Ajansı: news agency. Available at: https://www. aa.com.tr/tr/ekonomi/bakan-varank-togg-minimum-yuzde-51yerlilikle-piyasaya-cikacak-2025te-de-minimum-yuzde-65- yerliligiyakalayacak/2716418. Published: 10/20/2022. In Turkish.

1 TOGG: official website. Available at: https://www. togg.com.tr/en/togg-and-ava-labs- announce-strategicpartnership.html (Accessed: July 19, 2023).

ln addition, the Turkey government insurance premium share support for 10 years for Also, TOGG introduced Trumore mobile App any additional employment created, income tax

Global Electric vehicle market issues

As all products, electric vehicle success heavily this complex market, the impetus for EV acceptance

kadar-faiz-orani-kac-2078239. Published: 05/05/2023. In Turkish

agency. Available at: https://www.hurriyet.com.tr/ekonomi/elektrikliarac-vergilerine-togg-ayari-otv-matrah-limitleri-guncellendi-cinlimodellere-ek-vergi-geldi-42228719. Published: 03/04/2023. In Turkish

⁴ Turkey: The government supports the first fully homemade electric car investment project worth \$3.7 billioni. Global Trade Alert: news agency. Available at: https://www.globaltradealert. org/intervention/78167/tax-or-social-insurance-relief/turkeythe-government-supports-the-first-fully-homemade-electric-carinvestment-project-worth-3-7-billion . Published: 12/27/2019.

cannot be placed on a single factor [Yaprak 2022]. the EU 27. A more varied market can lead to increased Government goals, incentives, and legislation EV awareness, and, in turn, consumer purchasing all influence the targets of original equipment intentions can impact the political discourse. manufacturers (OEMs), as seen with Volkswagen and

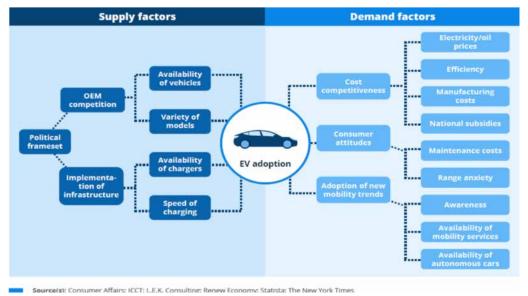


Figure 6. EV Vehicles Consumer Acceptance Affecting Factors Source: [Electric vehicles: A global overview 2023].

at times, complicated. OEMs must contend with mobility. each country's political context and approach to

EV automotive industry is multifaceted and, in January 2023 with intent to promote active

Russia-Ukraine war has accelerated interest in the transport electrification process, perspectives used EVs as gas prices sharply inflated. But this hike that can directly impact vehicle sales. For example, in demand was greater than supply, leading to used Norway has been the European leader in offering EV shortages in, for example, the UK. In the U.S., the financial incentives to EV buyers this has resulted average used EV price was 71 percent higher than in EVs dominating the Norwegian market. Now the that for used non hybrid and non-electric vehicles in country plans to scale back on EV subsidies starting May 2022 [Electric vehicles: A global overview 2023].

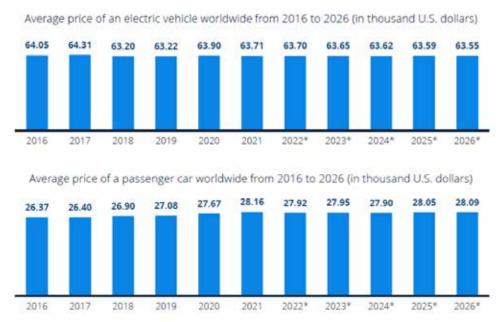


Figure 7. Average Price of EV and regular passenger car Worldwide in Thousand US Dollars *Source:* [Electric vehicles: A global overview 2023].

fundamental role played by consumers and how vehicles. However, consumers might not be the only demand factors impact electric vehicle acceptance, actor OEMs have to contend with when trying to Consumers spent over eight times more than increase their EV sales; other less subjective factors governments on electric cars worldwide, representing contextualize consumer behavior [Yılmaz 2022]. close to 90 percent of the global expenditure in 2021. Each country's specific demographic information At around 249 billion current U.S. dollars, global and government attitudes toward facilitating electric consumer spending on electric vehicles was also vehicle adoption are integral factors contributing nearly double its 2020 value. Consumer opinions and to market differences between regions. While purchasing intentions, while heavily dependent on governments allocated 28 billion U.S. dollars in electric external factors such as sample selection bias and car spending in 2021, policies such as subsidies and framing bias, can provide insights into the perceived other financial incentives, as well as investments in demand of the market and the potential challenges infrastructure, could contribute to a more favorable government and automakers will need to address in EV market.

market inflation helps highlight the order to phase out the production and sale of new



Figure 8. Average global electric vehicle subsidies at purchase in selected countries in 2022 (in U.S. dollars) Source: [Electric vehicles: A global overview 2023].

TOGG brand perspective in the regional adjacent markets

Generally the electric vehicle market in Europe is rapidly evolving as the EU are generating over 25% of the world's EV production. In 2021, EVs represented roughly 20% of new-car sales in Europe, which is an indication of the growing popularity of electric

The EV market is growing in many countries, each vehicles in the region¹. However, European car makers with very different demographics. Norway, where are facing strong competition from heavily subsidized EVs accounted for over 86 percent of new passenger Chinese electric vehicles and are struggling to vehicle sales in 2021, has a high gross domestic compete on price, resulting in a shortage of mass product per capita, with 83 percent of its population market customers able to pay the price for electric living in urban areas. However, high GDP per capita vehicles. As in Turkey, the entry of Chinese electric and urban population are not intrinsically indicative vehicles is causing European car makers significant of a larger EV market. As of 2021, the U.S. had a GDP losses, but EU is much slower in creating antidumping per capita of 69,231 U.S. dollars, with an 83% urban barriers. The reasoning behind it that EU is limited population [Electric vehicles: A global overview 2023]. with its "green deal" strategies, and its promoters are protecting the competition in EV market to ensuring an effective and durable green transition.

Europe's EV opportunity—and the charging infrastructure needed to meet it. By J. Conzade, F. Nägele,

S. Ramanathan, and P. Schaufuss. McKinsey&Company: official website. Available at: https://www.mckinsey.com/industries/automotive-andassembly/our-insights/europes-ev-opportunity-and-the-charginginfrastructure-needed-to-meet-it. Published: 11/04/2022.

the different sub-segments within the market, such as 2023]. This is added with execution of the Net Zero standard non-plug-in hybrids (HEVs), plug-in hybrids Industry Act aiming to meet nearly 90% of the (PHEVs), extended range electric vehicles (EREVs), European Union's annual battery demand with EU and battery all-electric vehicles (BEVs). As such, battery manufacturers. Also there is a plan to promote supply chain strategies are crucial for competition. the charging infrastructure across the union. France Moreover, as price tends to be highly proportional to and Germany have had the fastest pace of public range capacity and battery efficiency, players target charging points development, but the rest of the EU different segments with different models. European is still far behind the target rate of 6000 chargers to be hybrid and the electric vehicle market are highly installed every week from 2021 to 2030. competitive, with a large number of automakers within it, while demand is still at the early adoption obvious due to drastic changes going on it the stage. Competition tends to be differentiated across economy and government regulations over the last segments; in hybrids, Toyota is dominant, while in year. The Russian electric vehicle market certainly electric cars there is strong competition between has the potential for growth and success despite Tesla, BMW, Volkswagen, Renault, and others. Tesla its association with a decrease in demand for has a strong presence in the electric cars segment hydrocarbon fuels, which are a major product of the in Europe, through the premium sedan Model S, national economy. However, it is crucial that Russia the SUV Model X, and the recent sedan Model 3 and does not create barriers to the entry of EVs into the Model Y all-electric cars. Also operates a network of normal market operation. Currently the Russian superchargers stations in Europe to enable long- electric vehicle market is largely fragmented and distance driving. Volkswagen Group is one of the mostly based on imported models, particularly in leading players in plug-in hybrids through the VW, its initial stages, with the exception of the recently Audi, and Porsche brands. The company has a strong incorporated Evolute brand being the localized footprint in the premium-end of the market through Chinese EV brand. The competitive landscape of the the top-selling plug-in hybrids of its Porsche brand. market includes leading players such as ABVolvo, Audi BMW leads the market for electrified vehicles (PHEVs AG, Hyundai Motor Company, Nissan Motor Company and BEVs). It offers an extensive range of plug-in Ltd, and Tesla Inc, with these top five companies hybrid versions of the 3 and 7-series sedans and X3 occupying approximately 30% of the market [Russia and X5 crossovers. Since 2016, the company has Electric Cars... 2023]. also been a leader in BEVs through its BMW i3 range. Groupe Renault, is one of the leading players in the the average cost of an electric car (including used electric cars segment in Europe thanks to the sales of vehicles) in 2020 (before all geopolitical turbulence its all-electric supermini-compact Renault Zoe, which events) was 1.4 million rubles against 632 thousand was the second best-selling electric car in the market rubles. It is worthy to note that the price variation in 2019 [Electric vehicles: A global overview 2023].

Competition and players' strategies are shaped by CO2 standards for cars and vans [Global EV Outlook

The Russian market perspectives are much less

According to the Russian "Drom" automobile portal here is rather large, as over 70% of electric vehicles at The promotion of competition with Chinese the portal are presented by low-priced Nissan Leaf – manufacturers that are ahead of Europe in terms of especially in the Far East and Eastern Siberia, and at battery technology and established supply chains the same time by luxury Tesla – over 11% in Moscow for critical materials may potentially strengthen area. In mid-2023 the average price for the new the existing crisis in the European industry, which car jumped to 5.9 million, but due to government may lead to the industry running to the EU for benefits the sales are growing at a significant pace. subsidies [EU Electric Car 2023]. In addition, as other For example, 880 cars were sold in may 2023 alone, regions are predominantly incentivizing their way to which was 8 times higher than in same month of electric mobility, EU is mostly aiming to regulate this 2022 [Romanova 2023]. As shown above, since 2023 progress through legislation. As a consequence, EU's Russian EV purchasers enjoy benefits like free parking promotion of Battery Electric Vehicles (BEVs) gives an and tax exemptions, while the charging infrastructure advantage to Chinese and American companies like is also actively developing (although the network Tesla. For the near future, the EU has planned "Euro is much denser is mostly in European part of the 7" standards to limit pollutants and has adopted new country) [Elektromobili (rynok Rossii) 2023]. However,

Amino M., Chernikov S. Yu. TOGG Automotive Brand Potential from Regional Market Perspective, p. 31–42

market is still less than 1 % of the total automotive owning such kind of vehicles. The second part which capacity, and the sales are mostly rated in hundreds means the ability and willingness of Golf countries to or thousands unlike the traditional car turnover.

information and statistics mentioned it is highly likely trend between Turkey and those countries, we can that that TOGG brand would have success in the say that the good relations between Qatar and Turkey national market especially with the huge incentives will give a big advantage to TOGG in case it wants to from the government. It is suffice to say that the enter Qatar market especially after 2018 after Turkey's competition in Turkey's EV market is heating up. U.S. political, economic, military and defence support carmaker Tesla launched pre-sales of its Model Y that it the 1st choice of Qatari government to import vehicles in the Turkish market in April 2023. Tesla is from. In such case, Qatar government might support also offering three models to local consumers, with and attract consumers to prefer TOGG brand in aim of prices ranging between 1.56 million TL, 1.63 million keeping the political relations in high level. TL and 1.8 million TL. The high TOGG pre-order rate is an indirect sign that consumers are ready get the nationally produced automobile. In March 2023, 2193 vehicles has developed impressive momentum in EVs were sold in Turkey, a 244% increase from a year recent years, fuelled by environmental concerns, ago. EVs accounted for 2.8% of all vehicle sales last an increased awareness of the importance of month.

can see the high competition of the other players of In the past, the Turkish market for electric vehicles this industry. The increasing of customers awareness was rather small compared to other countries that and willing to have electrical vehicle will allow TOGG have more advanced electric vehicle infrastructure. to enter EU-27 market as it has the price advantage Despite the failure in the past to close this gap, the comparing to other brands and also the ability of launch of TOGG in addition to government incentives European people to pay that price in comparison to to promote the Turkish e- vehicle market, including their high income. Also, it's useful to mention that the a special consumption tax reduction for electric economic relationship with Europe is strong (70% of and hybrid vehicles and a new legal regulation for Turkey's exports go to EU). It just matters of time until e-scooters, represents a major leap forward for Turkey. TOGG factories start working in the full capacity and direct its intention to EU market.

income rate of consumers might affect their decision emissions. to prefer TOGG. Moreover, Russia has a big economic relation with China which gives the lead to Chinese commercial business. So, it's not just about producing players especially with the competitive price that can cars. In this production; automotive, electronic be the main matter for Russian consumers.

focus tree main parts: technical, financial and political. touch technology and every part of the automotive. The first part which means the ability of EV automobile Therefore, those who lead the digital transformation to perform in those countries which have hard nature will also determine the future of the automotive condition like dust and high temperature that effect industry.

despite the impressive growth rates the Russian EV batteries performance. That makes consumers avoid pay such a price as they have high income rate even It seems from the authors perspective on the more than EU. The most important part is the political

Conclusion

The international market for electric and hybrid environmental sustainability and an understanding If we take a look into the European market, we of the long-term economic benefits of the industry.

The public and private partnership launched by TOGG could make Turkey a major producer of electric Russian market doesn't look attractive to TOGG hybrid and autonomous vehicles, reduce economic brand to enter for different reasons such as, growth dependence on foreign countries and help Turkey rate of EV automobiles is too low and the middle- tackle environmental problems such as carbon

Turkey's automobile issue is more than just any command/control and telecommunication sectors Finally, to evaluate GCC countries market we need to will be combined at one point. Digitization will

References

- 1. Clark 2005 Clark B., and York R. Carbon metabolism: Global capitalism, climate change, and the biospheric rift. DOI: 10.1007/s11186-005-1993-4. Theory and society. 2005; 34:391-428.
- Demir 2020 Demir A. Türkiye'nin otomobili'nin gzft analizi. Ekonomik ve sosyal araştirmalar dergisi. 2020; 1(1):24–46. In Turkish.

- 3. Demirer 2022 Demirer D.; Büyükeke A. Analysing perceptions towards electric cars using text mining and sentiment analysis: A case study of the newly introduced TOGG in Turkey. Applied Marketing Analytics. 2022; 7(4): 386–399. In Turkish.
- 4. Electric Vehicles Worldwide 2023 Electric Vehicles Worldwide. Statista: [website]. Available at: https:// www.statista.com/outlook/mmo/electric-vehicles/worldwid (accessed: July 10, 2023). Access after payment.
- Electric vehicles: A global overview 2023 Electric vehicles: A global overview: Statista overview report on the global electric vehicle market, 2023, 46 p.. Statista: [website]. Available at: https://www.statista.com/ study/134904/electric-vehicles-a-global-overview/ (accessed: July 10, 2023). Access after payment.
- Elektromobili (rynok Rossii) 2023 Elektromobili (rynok Rossii) [Electric vehicles (market of Russia)]. TAdviser: Russian Internet portal and analytical agency. Available at: https://www.tadviser.ru/ index.php/Статья:Электромобили (рынок России). Published: 05/04/2023. In Russian.
- EU Electric Car 2023 EU Electric Car Insistence Exposes Auto Industry To Existential Threat. Forbes: official website. Available at: https://www.forbes.com/sites/neilwinton/2023/03/01/eu-electric-car-insistence-exposesauto-industry-to-existential-threat/?sh=67c29c7b154f. Published: 03/01/2023. Registration required.
- Global EV Outlook 2023 Global EV Outlook 2023. IEA, Paris, 2023. 142 p. IEA: official website. Available at: https://www.iea.org/reports/global-ev-outlook-2023. License: CC BY 4.0.
- Krieg 2017 Krieg C. P. Energy Futures: John Updike's Petrofictions. DOI: 10.1353/ saf.2017.0003. Studies in American Fiction. 2017; 44(1):87–112.
- 10. Lejarraga 2016 Lejarraga, I., Kouzul-Wright, A., Primi, A., Toselli, M., and Wermelinger, M. Upgrading pathways in the automotive value chain. In Background document for the 7th Plenary Meeting of the OECD Initiative for Policy Dialogue on GVCs, Production Transformation and Upgrading. Paris: OECD, 2016.
- 11. Romanova 2023 Romanova T. Chudo na batareykakh: kak v Rossii rastut prodazhi elektromobiley [A miracle on batteries: how sales of electric vehicles are growing in Russia]. Forbes: official website. Available at: https://www.forbes.ru/biznes/491219-cudo-na-batarejkahkak-v-rossii-rastut-prodazi-elektromobilej. Published: 07/21/2023. In Russian.
- 12. Russia Electric Cars... 2023 Russia Electric Cars Market Size & Share Analysis: Industry Research Report. Mordor intelligence: official website. Available at: https://www.mordorintelligence.com/ industry-reports/russia-electric-cars-market market (accessed: July 11, 2023). Registration required.
- 13. Yaprak 2022 Yaprak B. Deus ex Machina Olarak Dijitalleşme Perspektifinden Elektrikli Araç Pazarı. Dijital Etkileşimler: Sektörel Yansımaları, İnci Merve Altan (Ed.), İstanbul, Efe Akademi, 2022; 51–64. In Turkish.
- 14. Yaprak 2023 Yaprak B. Togg'un pazarlama çevresinin değerlendirilmesi: PESTLE analizi. DOI:10.51513/jitsa.1255172. Akıllı Ulaşım Sistemleri ve Uygulamaları Dergisi. 2023; 6(1). In Turkish
- 15. Yılmaz 2022 Yılmaz A., Ulaş M. ve Yeşil A. Etnosentrizm ve Tüketici İlişkiselliği: Yerli Otomobil Satın Alma Niyetinin Öngörüsü. DOI: 10.18094/josc.976314. Selçuk İletişim. 2022; 15 (1), 110–141. In Turkish.

Список источников

- 1. Clark B., and York R. Carbon metabolism: Global capitalism, climate change, and the biospheric rift. DOI: 10.1007/s11186-005-1993-4 // Theory and society. 2005; 34:391–428.
- Demir A. Türkiye'nin otomobili'nin gzft analizi // Ekonomik ve sosyal araştırmalar dergisi. 2020; 1(1):24–46.
- 3. Demirer D.; Büyükeke A. Analysing perceptions towards electric cars using text mining and sentiment analysis: A case study of the newly introduced TOGG in Turkey // Applied Marketing Analytics. 2022; 7(4): 386–399.
- Electric Vehicles Worldwide // Statista : сайт. URL: https://www.statista.com/outlook/mmo/ electric-vehicles/worldwid (дата обращения: 10.07.2023). Доступ после оплаты.
- Electric vehicles: A global overview: Statista overview report on the global electric vehicle market, 2023, 46 p. // Statista: caйт. URL: https://www.statista.com/study/134904/electricvehicles-a-global-overview/ (дата обращения: 10.07.2023). Доступ после оплаты.
- 6. Электромобили (рынок России) // TAdviser: российский интернет-

портал и аналитическое агентство. URL: https://www.tadviser.ru/index.php/ Статья:Электромобили_(рынок_России). Дата публикации; 04.05.2023.4-0556.

- 7. EU Electric Car Insistence Exposes Auto Industry To Existential Threat // Forbes : сайт. URL: https://www.forbes.com/sites/neilwinton/2023/03/01/eu-electric-car-insistence-exposes-auto-industry-to-existential-threat/?sh=67c29c7b154f. Дата публикации: 01.03.2023. Требуется регистрация.
- 8. Global EV Outlook 2023. IEA, Paris, 2023. 142 р. // IEA : официальный сайт. URL: https://www.iea.org/reports/global-ev-outlook-2023 (дата обращения: 10.07.2023). License: CC BY 4.0.
- 9. *Krieg C. P.* Energy Futures: John Updike's Petrofictions. DOI: 10.1353/saf.2017.0003. *Studies in American Fiction*. 2017; 44(1):87–112.
- 10. Lejarraga I., Kouzul-Wright A., Primi A., Toselli M., and Wermelinger M. Upgrading pathways in the automotive value chain // In Background document for the 7th Plenary Meeting of the OECD Initiative for Policy Dialogue on GVCs, Production Transformation and Upgrading. Paris: OECD, 2016.
- 11. *Романова Т.* Чудо на батарейках: как в России растут продажи электромобилей // Forbes: официальный сайт. URL: https://www.forbes.ru/biznes/491219-cudo-na-batarejkah-kak-v-rossii-rastut-prodazi-elektromobilej. Дата публикации: 21.07.2023.
- 12. Russia Electric Cars Market Size & Share Analysis: Industry Research Report // Mordor intelligence: сайт. URL: https://www.mordorintelligence.com/industry-reports/russia-electric-cars-market market (дата обращения: 11.07.2023). Требуется регистрация.
- 13. *Yaprak B.* Deus ex Machina Olarak Dijitalleşme Perspektifinden Elektrikli Araç Pazarı. *Dijital Etkileşimler: Sektörel Yansımaları*, İnci Merve Altan (Ed.), İstanbul, Efe Akademi, 2022; 51–64. In Turkish.
- 14. *Yaprak B.* Togg'un pazarlama çevresinin değerlendirilmesi: PESTLE analizi. DOI:10.51513/jitsa.1255172. *Akıllı Ulaşım Sistemleri ve Uygulamaları Dergisi.* 2023; 6(1).
- 15. *Yılmaz A., Ulaş M. ve Yeşil A.* Etnosentrizm ve Tüketici İlişkiselliği: Yerli Otomobil Satın Alma Niyetinin Öngörüsü. DOI: 10.18094/josc.976314 // Selçuk İletişim. 2022; 15 (1), 110–141.

Information about the authors:

Chernikov Sergey U. – Candidate of Economic Sciences, MBA, Associate Professor, Department of Marketing, Faculty of Economics. SPIN-code: 6391-2343, ResearcherID: M-1346-2016, Scopus AuthorID: 57191344141; **Amino Mahmud** – Master student, Department of Marketing, Faculty of Economics.

Place of work of the authors: Peoples' Friendship University of Russia named after Patrice Lumumba (RUDN University), 6 Miklukho-Maklaya st., Moscow 117198, Russia.

Информация об авторах:

Черников Сергей Юрьевич — кандидат экономических наук, МВА, доцент, кафедра маркетинга, экономический факультет. SPIN-code: 6391-2343, ResearcherID: M-1346-2016, Scopus AuthorID: 57191344141; **Махмуд Амино** — магистр, кафедра маркетинга, экономический факультет.

Место работы авторов: Российский университет дружбы народов имени Патриса Лумумбы (РУДН), ул. Миклухо-Маклая 6, Москва 117198, Россия.

The article was submitted 07/20/2023; approved after reviewing 09/29/2023; accepted for publication 09/29/2023.

Статья поступила в редакцию 20.07.2023; одобрена после рецензирования 29.09.2023; принята к публикации 29.09.2023.