



Shared Prosperity Dignified Life



Global Energy Interconnection
Development and Cooperation Organization
全球能源互联网发展合作组织

Charge Ahead: Exploring China's Electric Vehicle Market Enablers

Tuesday, 30 January 2024 at 10:00 (Beirut) or 16:00 (Beijing)

[Register Here](#)

Concept Note

Overview

China has been experiencing significant growth and plays a pivotal role in the global electric vehicle (EV) landscape. In fact, China is the world's largest EV market boasting an impressive 18.5 million EVs on the road as of October 2023¹, and it is showing no signs of slowing down as sales in September 2023 reached a growth rate of 29 per cent year-to-date². Considering this growth rate, the 2023 share of EV sales hit 36 per cent and it is expected to end the year close to 40 per cent³. On the global scale, China produced almost 60 per cent of the world's EVs in 2022 and it is on track to produce a total of 8 million EVs in 2023⁴. The market's projected revenue in 2023 is estimated to reach a staggering \$292 billion⁵.

This rapid and sustained growth and success is made possible thanks to a combination of factors that collectively create an integrated framework and a robust enabling environment. Driven by concerns about air pollution, energy security, and a desire to position itself as a leader in emerging technologies, China's government heavily invested in EV research, development, manufacturing, and servicing hence creating interconnected supply chains and value chains. This was aided by China's already established technological leadership in battery production and innovation which gave it a crucial edge in terms of time to market, cost, and efficiency. It further catalyzed this transition by putting in place favourable policies and regulations and offering incentives and subsidies to boost EV manufacturing, support charging infrastructure development, and encourage EV adoption not only for passenger vehicles but also for busses, vans, bikes, and scooters.

Since EVs can only be as clean as the electricity used to charge them with, China achieved another feat this year where renewable energy (RE) installed capacity exceeded 50 per cent of the country's total installed electricity generation capacity. In terms of total

¹ [CNEVPOST](#) and [CleanTechnica](#)

² [Reuters](#)

³ [CleanTechnica](#)

⁴ [East Asia Forum](#)

⁵ [Statista](#)



Shared Prosperity Dignified Life



Global Energy Interconnection
Development and Cooperation Organization
全球能源互联网发展合作组织

energy consumption, renewables reached 25.9 per cent in 2022⁶. This landscape represents a very interesting environment where the evolution of the EV market and the evolution of the RE market go hand in hand in an intertwined fashion, thanks to smart grid technologies, to continue pushing the boundaries of energy systems' transformation. However, this transformation cannot reliably take place without accounting and planning for the increased peaks in demand and the intermittency of RE sources that the electrical grid will exhibit and without mitigating their effects using a set of strategies and tools amongst which is increased regional and global interconnectivity. Interconnections between separately managed grids can enable electricity trading and optimally distribute the flow of RE-based electricity between areas with different production and peak demand patterns. This will ensure the highest levels of clean integration between EVs, RE, and the grid on both the regional and global scale.

[The Economic and Social Commission for Western Asia \(ESCWA\)](#) is one of five regional commissions under the jurisdiction of the United Nations Economic and Social Council. The role of the Commission is to promote economic and social development of Western Asia through regional and subregional cooperation and integration.

[The Global Energy Interconnection Development and Cooperation Organization \(GEIDCO\)](#) promotes the consolidation of the global energy link, lead its development, develop a framework for technical standards and formulate its own development plans to benefit from renewable sources of energy to meet the growing demand by providing cleaner alternatives.

In light of desiring to work together to promote sustainable energy and economic development through regional cooperation and integration in energy, ESCWA and GEIDCO signed a Memorandum of Understanding (MOU) to cooperate within the framework of the 2023 Agenda for Sustainable Development and its [17 Sustainable Development Goals \(SDGs\)](#) and in particular [SDG7 \(Affordable and Clean Energy\)](#).

In line with the aforementioned MOU and by building on [The Grid Interconnection and Energy Transition in the Arab Region Training Program](#) and its first event held on 22-23 August, ESCWA and GEIDCO are organizing a capacity-building webinar titled "Charge Ahead: Exploring China's Electric Vehicle Market Enablers" on Tuesday, 30 January 2024 at 10:00 (Beirut) or 16:00 (Beijing).

Objective

This capacity-building webinar will provide an overview on the EV market in China before focusing on the technical and policy enablers that paved the way for this growth and

⁶ [SolarPACES](#)



Shared Prosperity Dignified Life



Global Energy Interconnection
Development and Cooperation Organization
全球能源互联网发展合作组织

transition. The technical aspects will cover the entire supply and value chains including mining, design, engineering, manufacturing, charging, and smart grid and RE integration. The policy aspects will cover regulations, programs, incentives, subsidies, and standardization.

To maximize reverse knowledge, the webinar will also feature the experience of Jordan where the number of EVs on Jordan's roads rose 103 per cent by the end of July 2023 compared to the same period last year and reached 60,000 by November 2023⁷.

This webinar will be part of a series of webinars and workshops that will emphasize reverse knowledge opportunities for the Arab region and address a variety of topics related to regional energy collaboration. The series contributes to the SDGs [7](#), [8 \(Decent Work and Economic Growth\)](#), [9 \(Industry, Innovation, and Infrastructure\)](#), [11 \(Sustainable Cities and Communities\)](#), [13 \(Climate Action\)](#), and [17 \(Partnerships for the Goal\)](#).

Platform and Registration Link

The webinar will be held in English using Zoom.

Please register using this link:

https://eur02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fzoom.us%2Fmeeting%2Fregister%2FtJEvcO2prj8iHNfQDXRXv_VB7kVqV81udfWT&data=05%7C02%7Cjil.amine%40un.org%7C2cffb2bfddf342e5d84f08dc0dd56c4d%7C0f9e35db544f4f60bdcc5ea416e6dc70%7C0%7C0%7C638400457491543502%7CUnknown%7CTWFpbGZsb3d8eyJWljojMC4wLjAwMDAiLCJQIjoiV2luMzliLCJBTiI6IjEhaWwiLCJXVCi6Mn0%3D%7C3000%7C%7C%7C&sdata=XRnJK8uD4n1ZGUa4WVMmPf8CYvtNHuUy61t3tstwLcY%3D&reserved=0

All attendees will receive a certificate of attendance signed by ESCWA and GEIDCO after successfully attending the webinar.

⁷ [France24](#)



Agenda

Tuesday, January 30, 2023	
10:00 – 10:10 (Beirut) 16:00 – 16:10 (Beijing)	Introduction and Housekeeping
	Moderator: Mr. Jil Amine, Economic Affairs Officer, Energy Section, Climate Change and Natural Resources Sustainability Cluster, ESCWA
10:10 – 10:40 (Beirut) 16:10 – 16:40 (Beijing)	Welcoming Remarks and Scene Setting
	<ul style="list-style-type: none"> – Ms. Radia Sedaoui, Chief, Energy Section, Climate Change and Natural Resources Sustainability Cluster, ESCWA – Dr. Zhiqiang Cheng, Executive Secretary for Cooperation, GEIDCO
10:10 – 10:40 (Beirut) 16:10 – 16:40 (Beijing)	Chinese EV Market Overview and Technical Enablers
	Mr. Feng Ni, Senior Expert, NARI Group and Chief Expert of EV Infrastructure, SGCC.
10:40 – 11:00 (Beirut) 16:40 – 16:00 (Beijing)	Chinese EV Market Policy Enablers
	Ms. Ran Ji, Project Manager, Automotive Data of China Co. Ltd.
11:00 – 11:10 (Beirut) 16:00 – 16:10 (Beijing)	Jordan's EV Experience
	Ms. Bushra Fahed Al-Abbadi, Head of Energy Sector Planning Section, Ministry of Energy and Mineral Resources (MEMR), Jordan
11:10 – 11:25 (Beirut) 17:10 – 17:25 (Beijing)	Q&A
11:25 – 11:30 (Beirut) 17:25 – 17:30 (Beijing)	Group Photo and Closing
	<ul style="list-style-type: none"> – Ms. Radia Sedaoui, ESCWA – Dr. Zhiqiang Cheng, GEIDCO