

Parallel Session on High-quality Development of New Types of Energy Storage Accelerates Global Energy Transition

【Basic Information】

Moderator:

Liu Deshun

Director-General, Department of Energy Conservation and Technology Equipment, National Energy Administration

Opening Addresses:

Song Hongkun

Member of the Party Leadership Group, and Vice Administrator of National Energy Administration

Laureano Ortega Murillo

Presidential Advisor for the Promotion of Investment, Trade and International Cooperation, the Republic of Nicaragua

Xiao Lu

Deputy Director-General of the Department of Foreign Trade, Ministry of Commerce

Keynote Presentation:

Bian Guangqi

Deputy Director-General of the Department of Energy Conservation and Technology Equipment, National Energy Administration

Video Presentation:

Steven Chu

Former U.S. Secretary of Energy & Nobel Laureate in Physics

Invited Presentation:

Meng Qingqiang

Chief Engineer, State Grid Corporation of China

Wang Shaowu

Party Leadership Group Member & Vice President, China Southern Power Grid Co., Ltd.

Wang Shaomin

Party Leadership Group Member & Vice President, State Power Investment Corporation Limited

Zheng Deyan	Secretary of the Party Leadership Group & Director General, Energy Administration of Shandong Province
Xia Qing	Professor, Tsinghua University
Pan Jiaofeng	President of the Institutes of Science and Development, Chinese Academy of Sciences (CASISD)
Yu Zhenhua	Founder and Executive Vice Chairman, China Energy Storage Alliance (CNESA), Deputy Director and Secretary-General, Energy Storage Expert Committee under China Energy Research Society
Steven Chen	SVP, EVE Energy; CEO, EVE Energy Storage

[Brief Introduction]

"High-quality Development of New Types of Energy Storage Accelerates Global Energy Transition", as one of the parallel sessions of the 8th Hongqiao International Economic Forum, was held in Hall4.2, National Exhibition and Convention Center (Shanghai) on the afternoon of November 5, 2025. This conference was jointly hosted by the National Energy Administration and the Ministry of Commerce of the People's Republic of China, and consisted of four sections: opening addresses, keynote presentation, video presentation, and invited presentation.



[Address]

During the opening addresses session, Song Hongkun, Member of the Party Leadership Group, and Vice Administrator of the National Energy Administration, Laureano Ortega Murillo, Presidential Advisor for the Promotion of Investment, Trade and International Cooperation, the Republic of Nicaragua, and Xiao Lu, Deputy Director-General of the Department of Foreign Trade, Ministry of Commerce, were invited. The guests exchanged views on the strategic value of new energy storage in the global energy transition, China's practical achievements and international cooperation opportunities. New energy storage is a key technology for building a new energy system and a new power system. China has established the world's largest renewable energy system and new energy industry chain. By the end of September 2025, the installed capacity of new energy storage exceeded 100 million kilowatts. The targets for the total installed capacity of wind power and solar power generation and the proportion of non-fossil energy consumption are clear. Its high-quality development will be promoted through strengthening planning guidance, innovation-driven approaches, and improving market mechanisms. Nicaragua and China have a foundation in renewable energy and a demand for energy cooperation. Nicaragua hopes to enhance project cooperation with China in the fields of new energy and energy storage, and jointly explore natural advantages to promote the optimization of the energy structure. China's energy storage trade scale has continued to expand, its position as a global production and supply chain hub has become more prominent, and its outbound investment has steadily increased. In the future, China will continue to create an open environment, promote international cooperation and standard alignment, and maintain the security and smoothness of the industrial and supply chains.



Song Hongkun, Member of the Party Leadership Group, and Vice Administrator of the National Energy Administration, attended the parallel session on High-quality Development of New Types of Energy Storage Accelerates Global Energy Transition and delivered a speech



Laureano Ortega Murillo, Presidential Advisor for the Promotion of Investment, Trade and International Cooperation, the Republic of Nicaragua, attended the parallel session on High-quality Development of New Types of Energy Storage Accelerates Global Energy Transition and delivered a speech



Xiao Lu, Deputy Director-General of the Department of Foreign Trade, Ministry of Commerce, attended the parallel session on High-quality Development of New Types of Energy Storage Accelerates Global Energy Transition and delivered a speech

[Keynote Presentation]

During the keynote presentation session, Bian Guangqi, Deputy Director General of the Department of Energy Conservation and Technology Equipment, National Energy Administration, elaborated on the development policies, technological breakthroughs, application achievements and future plans for new energy storage. At the national level, by strengthening top-level design, introducing multiple supportive policies, incorporating new energy storage into the Energy Law, and formulating special action plans, the goal of achieving a national installed capacity of over 180 million kilowatts of new energy storage by the end of 2027 has been set. It has organized technological breakthroughs and improved the standard system, and has cumulatively released over 50 national standards and more than 80 industry standards. By the end of September 2025, China's installed capacity reached 103 million kilowatts, with the North China, Northwest China and East China regions accounting for over 70%, and the southern region growing at a relatively fast pace. The application effect has been continuously highlighted. In the first three quarters of 2025, the equivalent utilization hours were approximately 770 hours, providing crucial support for power supply security during the peak summer period. In the future, efforts will be made in five aspects: coordinating the layout of the 15th Five-Year Plan, improving the market mechanism, enhancing the utilization level, supporting scientific and technological innovation, and deepening international cooperation, to promote the high-quality development of new energy storage and support the construction of a new power system.



Bian Guangqi, Deputy Director General of the Department of Energy Conservation and Technology Equipment, National Energy Administration, attended the parallel session on High-quality Development of New Types of Energy Storage Accelerates Global Energy Transition and delivered a keynote presentation

[Video Presentation]

For the video presentation session, Steven Chu, Former U.S. Secretary of Energy & Nobel Laureate in Physics, was invited. The guest exchanged views on the challenges of global greenhouse gas reduction and solutions for energy transition. The current global warming issue is severe and has begun to exceed the 1.5-degree Celsius threshold. Moreover, the heat absorption in the deep sea causes the impact of climate change to have a lag effect. Although the cost of renewable energy has declined and China leads the world in large-scale wind turbines, the high proportion of renewable energy access needs to take into account the total cost of transmission and distribution systems, reserve capacity and energy storage. In the field of energy storage, pumped storage was once dominant, but the landscape is changing rapidly. China leads in battery energy storage and plans to increase its battery energy storage capacity to 180 GW by 2027 and add approximately 260 GW of energy storage by 2030. In terms of battery technology, energy density has achieved rapid improvement, and battery costs have significantly decreased as production scale expands. The industry is shifting towards lithium iron phosphate salt batteries to address the cost issues of raw materials such as nickel and cobalt. At the same time, attention should be paid to the demand for copper resources and the research and development of alternative materials.



Steven Chu, Former U.S. Secretary of Energy & Nobel Laureate in Physics, attended the parallel session on High-quality Development of New Types of Energy Storage Accelerates Global Energy Transition via video and delivered a video presentation

[Invited Presentation]

During the invited presentation session, Meng Qingqiang, Chief Engineer of State Grid Corporation of China, Wang Shaowu, Party Leadership Group Member & Vice President of China Southern Power Grid Co., Ltd, Wang Shaomin, Party Leadership Group Member & Vice President of State Power Investment Corporation Limited, Zheng Deyan, Secretary of the Party Leadership Group & Director-General of Energy Administration of Shandong Province, Xia Qing, Professor of Tsinghua University, Pan Jiaofeng, President of the Institutes of Science and Development of Chinese Academy of Sciences (CASISD), Yu Zhenhua, Founder and Executive Vice Chairman of China Energy Storage Alliance (CNESA), Deputy-Director and Secretary-General of Energy Storage Expert Committee under China Energy Research Society, and Steven Chen, SVP of EVE Energy and CEO of EVE Energy Storage, were invited. The guests shared their experiences in the application of new energy storage in power grid practice, market mechanisms, and green transformation, drawing on both enterprise and local practices. In terms of grid practice, the installed capacity of new energy storage is growing rapidly at present, and its utilization level is constantly improving, playing an important role in power supply security, safety guarantee and the consumption of new energy. At the same time, it also faces challenges such as a mismatch between planning and demand, insufficient exploration of application value, and incomplete security standards and management. Shandong Province regards new energy storage as a key support for energy transformation. By the end of October 2025, the operational capacity has reached 9.74 million kilowatts, with multiple benchmark projects put into operation. In the future, breakthroughs will be made in four aspects: improving market mechanisms, promoting regional coordination, enriching application scenarios, and aggregating resource elements. In terms of market mechanisms, China has been promoting the rapid development of the new energy storage industry through the dual drive of a "proactive government" and an "effective market". Policies have gradually evolved from "new energy with storage" to market-based incentives. In the future, it is necessary to further improve the price system and market mechanism to promote the coordinated replacement of fossil energy by new energy and new energy storage. In terms of green and low-carbon development, lithium-ion battery energy storage takes the lead and its cost continues to decline. Technologies such as flow batteries, compressed air, and sodium-ion batteries have made rapid breakthroughs. Cutting-edge technologies like solid-state batteries and hydrogen energy storage are accelerating their layout to meet the low-carbon demands of different scenarios.



Meng Qingqiang, Chief Engineer of State Grid Corporation of China, attended the parallel session on High-quality Development of New Types of Energy Storage Accelerates Global Energy Transition and delivered a keynote presentation



Wang Shaowu, Party Leadership Group Member & Vice President of China Southern Power Grid Co., Ltd, attended the parallel session on High-quality Development of New Types of Energy Storage Accelerates Global Energy Transition and delivered a keynote presentation



Wang Shaomin, Party Leadership Group Member & Vice President of State Power Investment Corporation Limited, attended the parallel session on High-quality Development of New Types of Energy Storage Accelerates Global Energy Transition and delivered a keynote presentation



Zheng Deyan, Secretary of the Party Leadership Group & Director-General of the Energy Administration of Shandong Province, attended the parallel session on High-quality Development of New Types of Energy Storage Accelerates Global Energy Transition and delivered a keynote presentation



Xia Qing, Professor of Tsinghua University, attended the parallel session on High-quality Development of New Types of Energy Storage Accelerates Global Energy Transition and delivered a keynote presentation



Pan Jiaofeng, President of the Institutes of Science and Development of Chinese Academy of Sciences (CASISD), attended the parallel session on High-quality Development of New Types of Energy Storage Accelerates Global Energy Transition and delivered a keynote presentation



Yu Zhenhua, Founder and Executive Vice Chairman of China Energy Storage Alliance (CNESA), Deputy-Director and Secretary-General of Energy Storage Expert Committee under China Energy Research Society, attended the parallel session on High-quality Development of New Types of Energy Storage Accelerates Global Energy Transition and delivered a keynote presentation



Steven Chen, SVP of EVE Energy and CEO of EVE Energy Storage, attended the parallel session on High-quality Development of New Types of Energy Storage Accelerates Global Energy Transition and delivered a keynote presentation



Liu Deshun, Director-General, Department of Energy Conservation and Technology Equipment, National Energy Administration, presided over the parallel session on High-quality Development of New Types of Energy Storage Accelerates Global Energy Transition