





绿筑美丽华夏 Green Huaxia Wonderful World

Huaxia Bank Contributes to the Development of Energy Storage Industry

November 2022

Part 1

Development of Green Finance at Huaxia Bank

Part 2

Introduction to the China Renewable Energy and Battery Storage Promotion Project

Part 3

Relevant Policies for China's Energy Storage Industry at the Present Stage

Part 4

Takeaways and Challenges in Implementing Energy Storage Projects

Part 5

Perceptions and Experiences of International Cooperation









NO.1 Development of Green Finance at Huaxia Bank



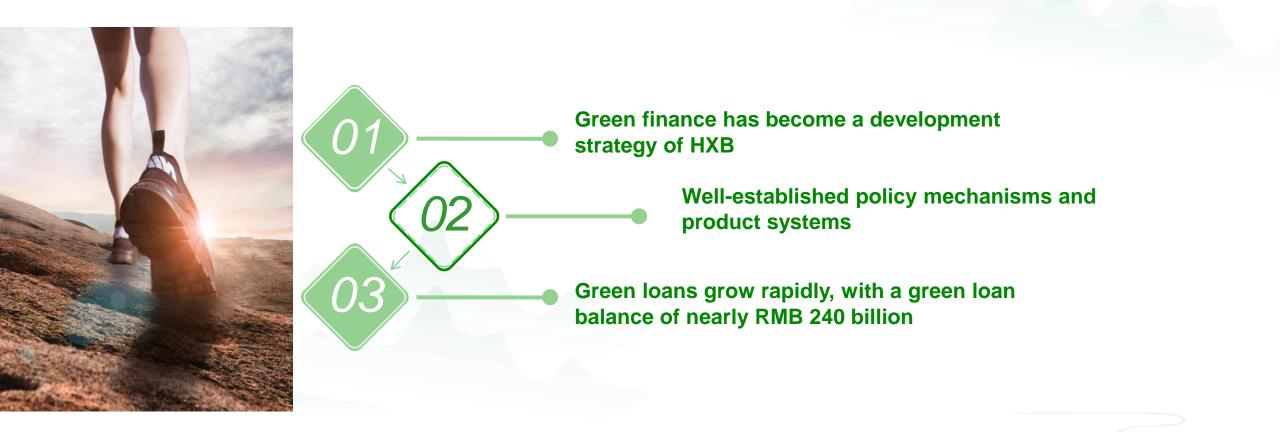






HXB's Green Finance Business













HXB's Green Finance Business









China Renewable Energy and Battery Storage Promotion Project









Project Background

Energy Issues and Challenges in China

Achieve the goals of energy supply-side reform

Increase the share of clean energy in domestic energy consumption structure



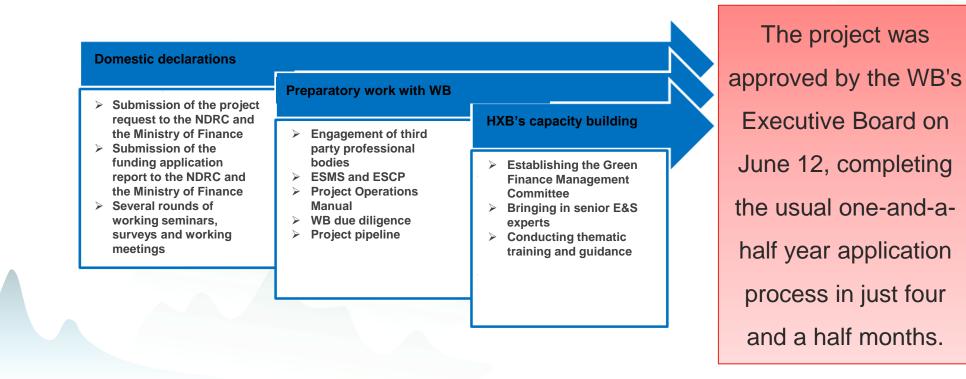






Project Background

Preparation Process











Part 2

Project Basics - Project Objectives

By investing in the applications of battery energy storage in the power system and the innovative uses of renewable energy (RE), HXB aimed to promote the largescale RE application, increase the RE use and reduce global GHG emissions, thereby contributing to the national energy revolution strategy. Increased grid-connected RE generation capacity

Incremental RE use from innovative RE applications

Co₂ emission reductions

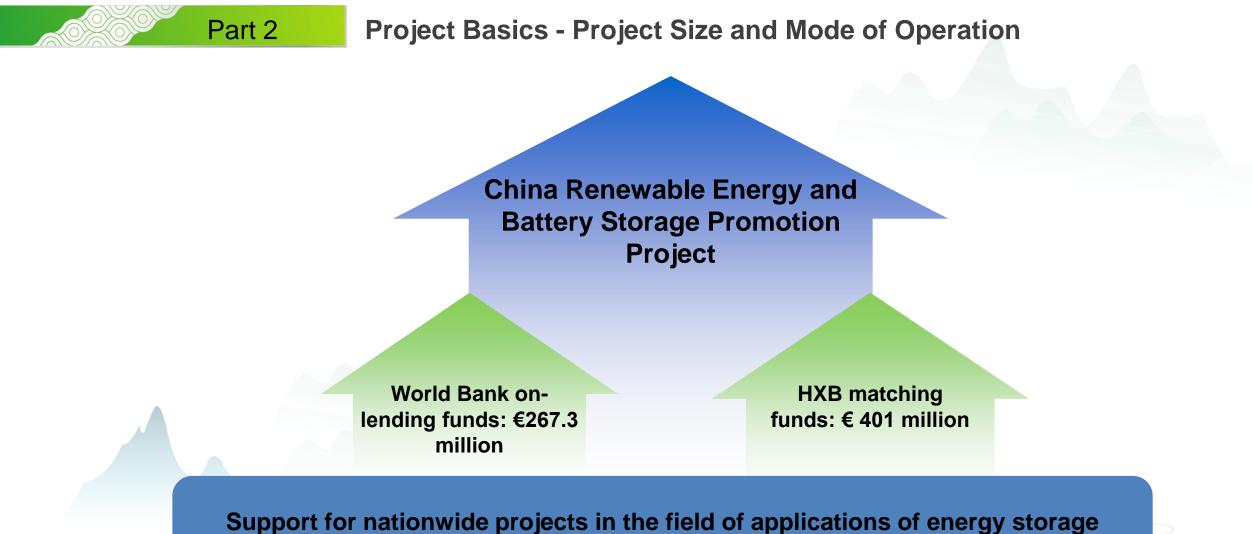
Intermediate project objectives

Installed capacity of battery storage systems, installed capacity of distributed RE, financing leverage, subproject non-performing ratio









(excluding pumped storage) in the power system and RE innovative uses

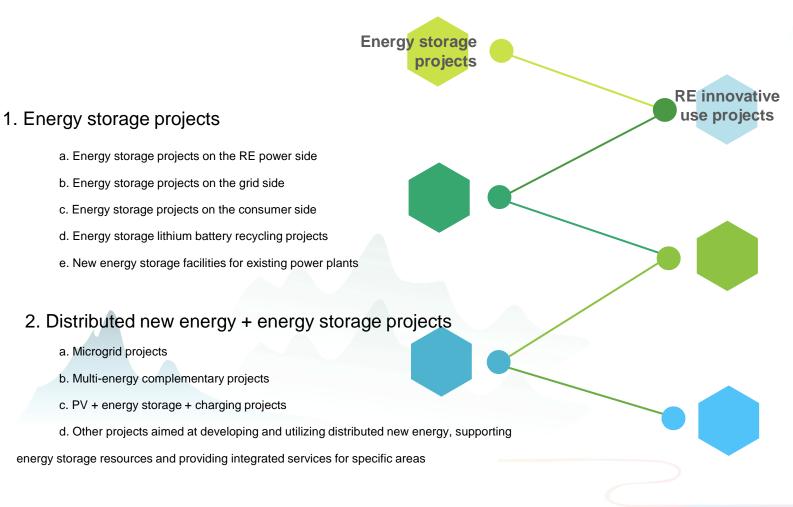








Project Basics - Areas of Investment



1. RE for heating projects

a. New or retrofit projects using geothermal energy for heating (cooling)

b. New or retrofit projects using biomass for heatingc. New or retrofit projects using RE electricity for heatingd. Other new or retrofit projects for new RE for heating

2. RE for hydrogen production projects

a. Wind-to-hydrogen projects

b. Solar-to-hydrogen projects

- c. Wind-solar coupled hydrogen production projects
- d. Hydro-to-hydrogen projects
- 3. Biomass gasification projects











By the end of October 2022, HXB had supported a total of 6 subprojects that met the WB's loan criteria, covering such areas as consumer-side energy storage, grid-side energy storage, distributed PV + energy storage, and biomass for heating. A total of €13.38 million was invested, including RMB 42.83 million from HXB.







Relevant Policies for NO.3 China's Energy Storage Industry at the Present Stage











The Guiding Opinions on Accelerating the Development of New Energy Storage

By 2025, the new energy storage will be transitioned from the initial stage of commercialization to scale development, with an installed capacity of over 30 million kW;

By 2030, new energy storage will be fully marketized. The scale of the installed capacity will meet the needs of the new power system and become one of the key supports for carbon peaking and carbon neutrality in the energy sector.



The Implementation Plan for the Development of New Energy Storage during the 14th Five-Year Plan Period,

The Plan stipulates the key tasks for new energy storage in the 14th FYP period in terms of technological innovation, pilot demonstration, scale development, institutional mechanism, policy guarantee and international cooperation, aimed at accelerating the large-scale, industrial and market-oriented development of new energy storage.



The 14th Five-Year Plan for Renewable Energy Development

The Plan for the first time puts forward "RE non-electricity utilization target", that is, by 2025, geothermal energy heating, biomass heating, biomass fuel, solar thermal utilization and other non-electricity utilization scale reaches 60 million tce or above, which will expedite RE non-electricity utilization process in China.







Takeaways and Challenges in Implementing Energy Storage Projects









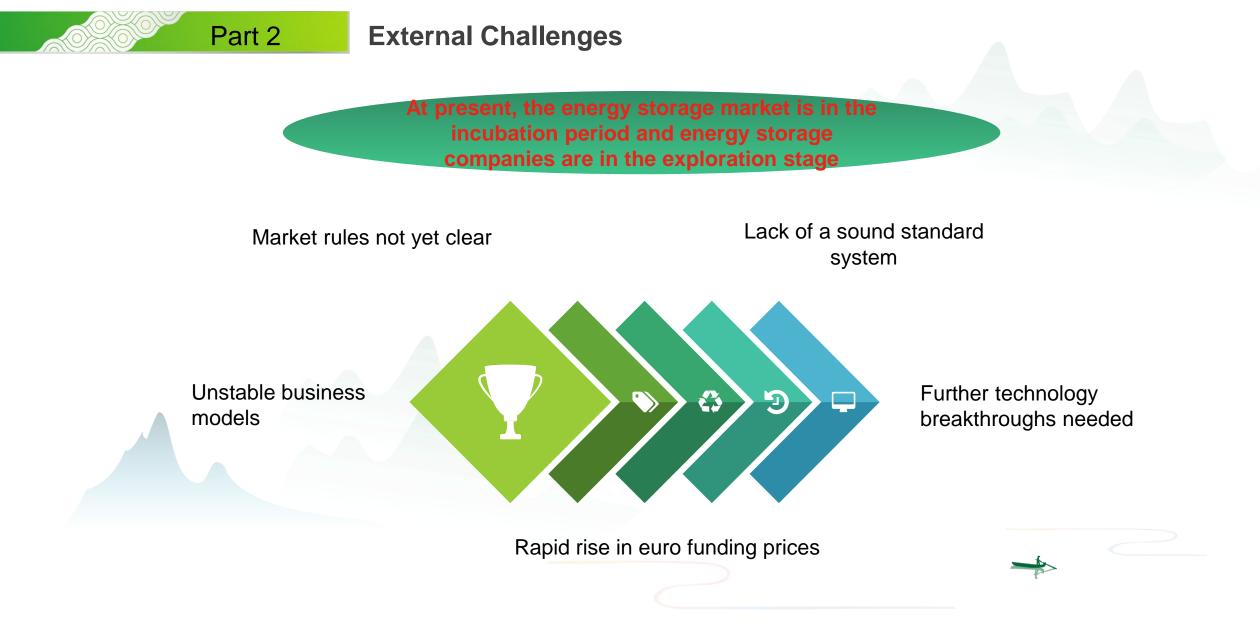
- **01** Gaining in-depth knowledge of the energy storage industry
- 02 Establishing a sound framework for E&S risk management
- 03 Green finance becomes a bank-wide strategic priority











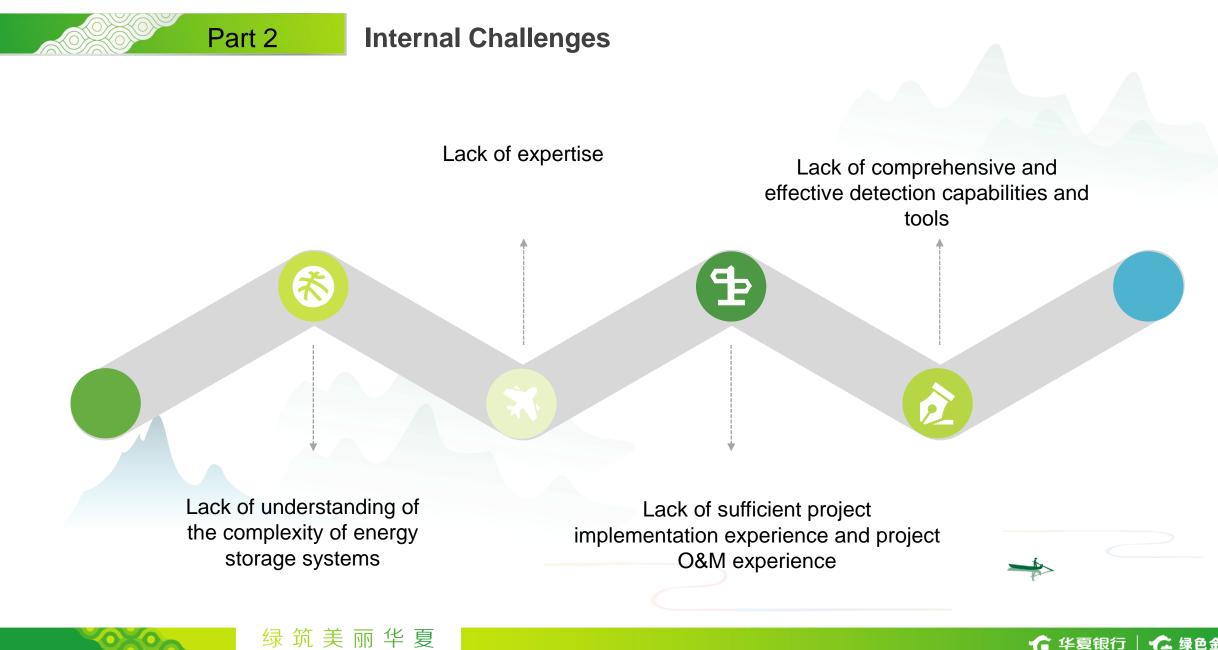


筑美丽华夏

Green Huaxia Wonderful World

绿











NO.5

Perceptions and Experiences of International Cooperation









Perceptions and Experiences of International Cooperation



Entering new sectors and areas

2 Introducing new concepts and models

Promoting institutional & mechanism building

Accelerating product innovation

Paying increased attention to E&S risks

Leveraging the seed and leverage effects







3

5

6



绿筑美丽华夏 Green Huaxia Wonderful World

THANKS

