

Green Transition: A Historic Shift in China's Energy Structure

China's historic shift in energy structure during the 14th Five-Year Plan, with renewable energy reaching 60% of power capacity. Highjoule's role in innovation and clean energy development.



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Recently, China's National Energy Administration announced remarkable progress during the 14th Five-Year Plan. The latest data shows the pace of China's green energy transition. It also points the way forward for companies like [Highjoule](#), which are deeply engaged in the energy sector.

Numbers speak loudly. Renewable energy now makes up **60%** of China's power capacity. Installed wind and solar grew from **530 GW** in 2020 to **1,680 GW** in 2024, with an annual growth rate of **28%**. That means out of every 10 kWh of new power, more than **6** come from renewables. **China has built the world's largest and fastest-growing clean energy system.**

Innovation Driving the Transition

For Highjoule, the energy transition is not just a national strategy. It's a huge business opportunity. We focus on innovation and R&D, always pushing for a cleaner, low-carbon energy system.

China already holds over **40%** of the world's renewable energy patents, and its new energy storage scale ranks first globally. Behind these achievements are countless companies working tirelessly on technology breakthroughs.

Highjoule is part of this effort. With strong expertise in the energy field, we continue to upgrade [our products](#) with smarter solutions. Our systems help improve flexibility and reliability, giving solid support to large-scale wind and solar integration into the grid.

Energy Empowering Rural Revitalization

Numbers also tell human stories. Household solar PV brings farmers an extra **14 billion RMB** per year. That's not just data—it's real income for rural families.

Highjoule pays close attention to the social value of energy development. Our products and solutions support distributed energy across China. We help rural households turn rooftops into income sources, contributing to shared prosperity.

Looking Ahead: Building a New Energy Era Together

Non-fossil energy now accounts for **19.8%** of consumption—on track to exceed the **20%** target set for the 14th Five-Year Plan. In the east, over **40%** of power demand is met by "West-to-East" transmission, showing stronger energy allocation across regions.

Highjoule will keep moving with the times. We will invest more in R&D, provide better products and services, and work hand in hand with customers. Our mission is clear: **help build a clean, low-carbon, safe, and efficient energy system.**

Let's move forward together. In this great journey of China's energy transition, Highjoule is ready to write a brighter chapter with you.

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