

NEWSLETTER

ENERGY & ENVIRONMENT

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World's first 1,000-km solid-state battery passes extreme cold test

A Chinese EV battery manufacturer's new solid-state battery has passed extreme performance tests at -40°C in Inner Mongolia. The battery retained over 90% of its room-temperature capacity and completed a simulated 1,000-km drive on a single charge under harsh conditions. Mass production is slated to begin in the second half of 2026. This breakthrough addresses a key barrier to EV adoption in cold climates worldwide. **(Ministry of Industry and Information Technology)**

Major coal region transitions first city to 100% renewable heating

Datong City in Shanxi, a historic coal capital, has become China's first major coal-producing city to achieve 100% renewable energy for its urban heating system. The transition leverages deep geothermal, industrial waste heat, and large-scale solar thermal plants. The project has eliminated the annual burning of 1.2 million tons of coal for heating. It serves as a national pilot for the just transition of fossil fuel-dependent regions. **(National Energy Administration)**

National standard launched for green hydrogen certification and trading

China's first national standard for green hydrogen certification has been launched, creating a unified framework for verifying its renewable origins. The standard enables the creation of a transparent national green hydrogen trading platform, set to launch in June. It is expected to accelerate investment and provide clear price signals for producers and consumers. The move is crucial for building a credible market for the low-carbon fuel. **(National Development and Reform Commission)**

Large-scale algae carbon capture farm begins operation in South China Sea

The world's largest offshore algae farm for carbon capture has begun operations in the South China Sea. Spanning 50 square kilometers, the farm cultivates fast-growing macroalgae that absorb CO_2 , which is then harvested and sunk to the deep sea for long-term storage. The project has the certified capacity to sequester 500,000 tons of CO_2 annually. It represents a novel approach to marine-based carbon dioxide removal. **(Ministry of Natural Resources)**

National policy mandates EV battery recycling at all charging stations

A new national policy requires all public electric vehicle charging stations to install integrated battery recycling collection points by 2027. The regulation ensures the safe collection and traceability of end-of-life and damaged EV batteries. It aims to achieve a 99% recovery rate for critical minerals like lithium, cobalt, and nickel. The system is backed by a digital passport tracking each battery's lifecycle. **(Ministry of Ecology and Environment)**