

## NEWSLETTER

### ENERGY & ENVIRONMENT

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#### **World's largest grid-scale sodium-ion battery begins operation**

The world's largest grid-scale sodium-ion battery energy storage station has begun commercial operation in Nanning, Guangxi. With a capacity of 100 MW/200 MWh, the system provides critical backup power and frequency regulation for the local grid. Using domestically developed sodium-ion technology, the project reduces reliance on lithium and cuts costs by approximately 30%. **(China Energy Administration)**

#### **National green hydrogen pipeline network blueprint unveiled**

China unveiled the master plan for a national green hydrogen pipeline network, with the first 400-km trunk line starting construction in Inner Mongolia. The network will initially connect major renewable energy bases in the west to industrial hubs in the east. It aims to transport 1 million tons of green hydrogen annually by 2030, supporting the decarbonization of steel and chemical industries. **(National Development and Reform Commission)**

#### **First commercial carbon capture system for cement plants goes online**

The first commercial-scale carbon capture, utilization, and storage system at a cement plant has begun operation in Anhui province. The facility captures up to 500,000 tons of CO<sub>2</sub> annually, which is used for enhanced oil recovery and beverage carbonation. The project reduces the plant's direct emissions by over 20% and provides a replicable model for a hard-to-abate sector. **(Ministry of Ecology and Environment)**

#### **New standard mandates solar panels on all new public buildings**

A new national building code mandates the installation of solar photovoltaic systems on all newly constructed public buildings starting July 2026. The regulation covers schools, hospitals, and government offices, aiming to add over 50 GW of distributed solar capacity in the next five years. The move is expected to reduce building operational carbon emissions by an average of 15%. **(Ministry of Housing and Urban-Rural Development)**

#### **Major battery maker achieves zero wastewater discharge in flagship plant**

Contemporary Amperex Technology Co., Limited (CATL) announced its flagship battery plant in Ningde has achieved full zero-liquid discharge in its manufacturing process. The system recycles and reuses 100% of industrial wastewater, saving 20 million tons of freshwater annually. The breakthrough technology, developed in-house, also recovers valuable metals like lithium and nickel from wastewater. **(China Daily)**