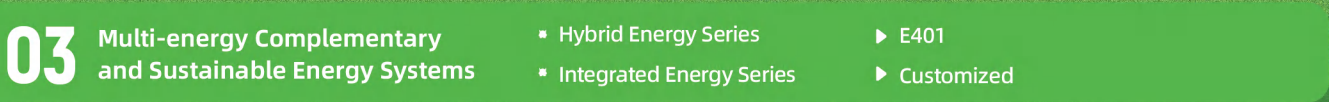
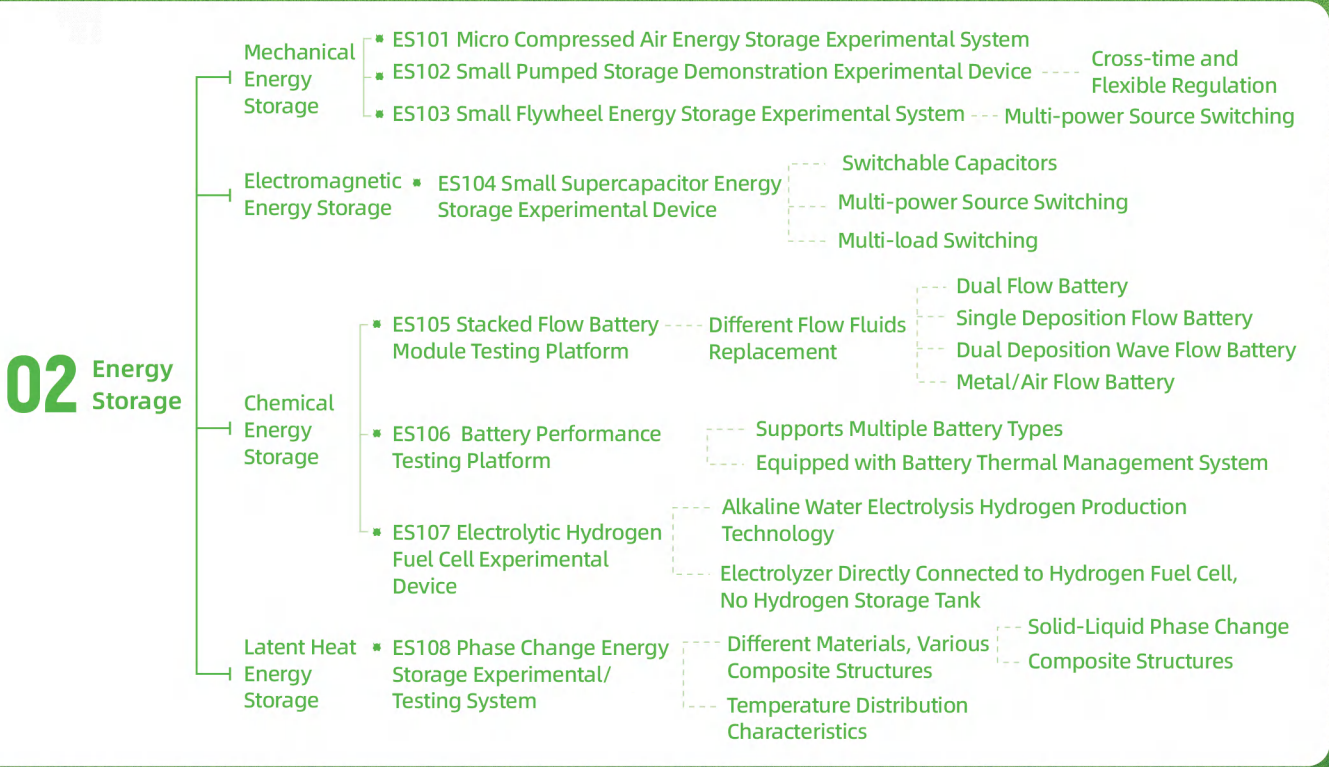
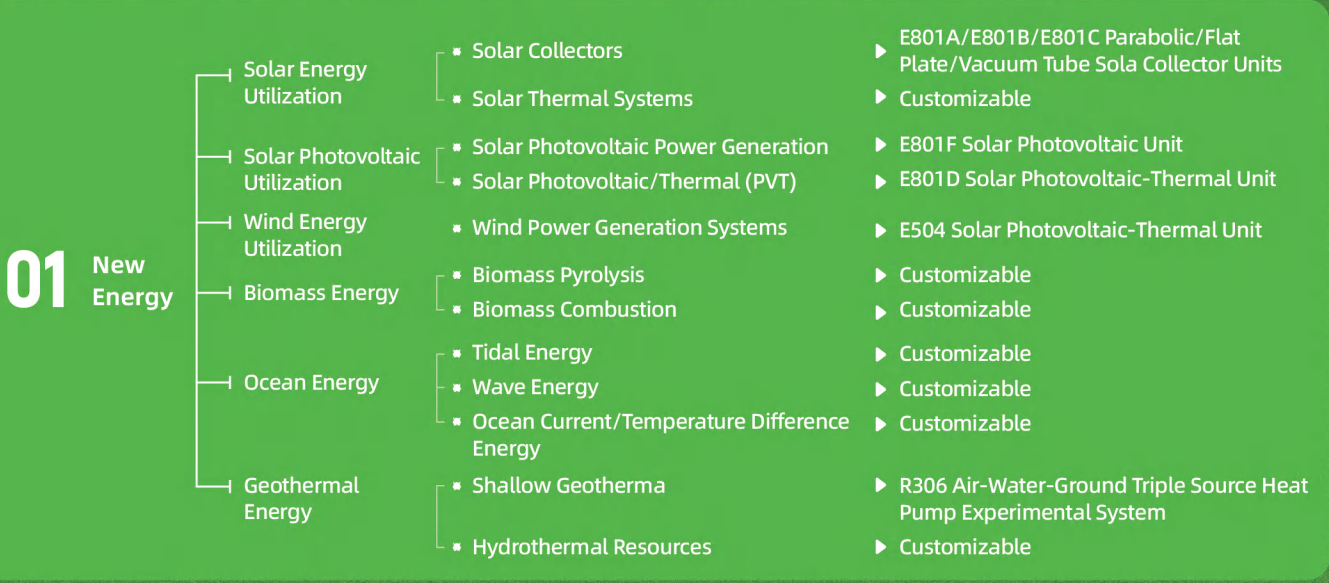


NEW ENERGY&ENERGY STORAGE SERIES

This modular product series, based on energy-related engineering curricula, enables efficient energy experiments. It helps students analyze natural phenomena, solve practical energy problems, and understand energy system design, while fostering innovation for future energy conservation and carbon reduction efforts.

New Energy & Energy Storage Series



ES101-Micro Compressed Air Energy Storage Experimental System

Based on a standard compressed air energy storage system, composed of a compressor, air storage tank, and turbine generator set. Output can connect to the main energy storage unit and supports multi-module coupling.



ES102-Small Pumped Storage Demonstration Device

Based on the standard layout and operation principle of a real pumped storage power station. The pump simulates the height difference, with frequency regulation, output connected to the energy storage module.

Enables demonstration of pumped storage principles, energy storage efficiency analysis, peak-valley operation experiments. Can be combined with other modules to build distributed energy systems.



ES104-Small Supercapacitor Energy Storage Experimental Device

Demonstrates supercapacitor energy storage principles and tests capacitor charge-discharge performance.



ES103- Small Flywheel Energy Storage Experimental System

Supports flywheel energy storage operation demonstration and power conversion calculations; can integrate with gas modules for distributed energy system setup.



ES108-Phase Change Energy Storage Experimental System

Used to study the heat storage and release characteristics of phase change materials.



ES109-Phase Change Thermal Storage Visualization Experiment Device

This experiment helps to understand the phase change behavior of phase change materials (PCMs) during heat storage and release. Through a visualization window, the melting and solidification of paraffin can be directly observed, and methods for comparing the thermal performance of materials with different phase change temperatures (e.g., Paraffin No. 45 and No. 37) can be mastered.



ES105-Stacked Flow Battery Module Platform

A typical redox battery that converts chemical energy and electrical energy via redox reactions of ions with different valences.

Supports swapping different flow liquids such as all-vanadium, zinc-iron, zinc-rust, iodine, organic solution, electrolytic hydrogen, methanol, etc. Compares charge-discharge performance of different flow liquids; outputs connect to main energy storage and battery testing units.



ES107-Electrolytic Hydrogen Fuel Cell Device

Used for understanding the structure and principles of hydrogen electrolysis systems, analyzing electrolytic hydrogen efficiency, and testing hydrogen fuel cell output characteristics.

► MicroNewton INTEGRATED MULTI-ENERGY COMPLEMENTARY EXPERIMENTAL PLATFORM

