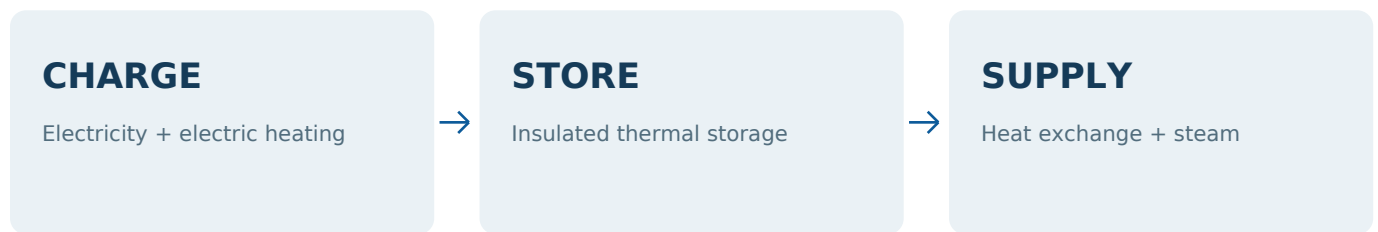


Store electricity as heat. Supply steam on demand.

An engineered approach to industrial heat using renewable electricity or available low-tariff charging periods.



Functional energy-flow illustration. Final equipment and piping are project-specific.

Molten salt storage for heat and steam

Electric heaters charge the thermal medium. Insulated storage retains heat, which is transferred through a heat exchanger to produce steam or hot water. Charging and discharge are coordinated with plant operation.

Salt-water dual-media storage

A separate storage architecture for industrial steam applications, with controllable output for changing demand. The Zhaoqing portfolio reference has 50 MWh of thermal storage capacity.

Integration with existing equipment

Storage can operate alongside existing boilers. Engineering defines load sharing, backup, water treatment, electrical connection and process interfaces.

Applications: textile and food processing, industrial steam networks, heating systems and industrial parks.

Size the system around the plant, not a generic promise.

Process requirements

Steam pressure and temperature; hourly and seasonal demand; minimum load; start-up needs; operating hours; requirements for backup supply.

Energy and infrastructure

Time-of-use electricity tariffs, demand charges, fuel prices, grid connection capacity, renewable profiles, site space and utility access.

Engineering outputs

A project-specific definition of charging power, usable storage capacity, steam output, operating schedule, equipment arrangement and integration scope.

How we work

- 1 Review process and energy data
- 2 Define the concept and integration scope
- 3 Evaluate economics and project requirements

Project economics depend on tariffs, utilization, losses, electrical infrastructure, capital cost and maintenance. Steam conditions, storage duration and savings are not universal product guarantees.

Start with a short technical discussion.

thermonova@hotmail.com | www.thermonova.us
ThermoNova Energy, LLC

Preliminary solution brief | October 2026 | EPC scope agreed per project.