PeakTamer

Taming thermal peaks.
Delivering stable conditions.

PeakTamer is a passive thermal technology designed to tame thermal peaks while maintaining constant output conditions.

TAME PEAKS
Reduces short-duration thermal spikes.

STABILIZE OUTPUT
Maintains consistent thermal performance.

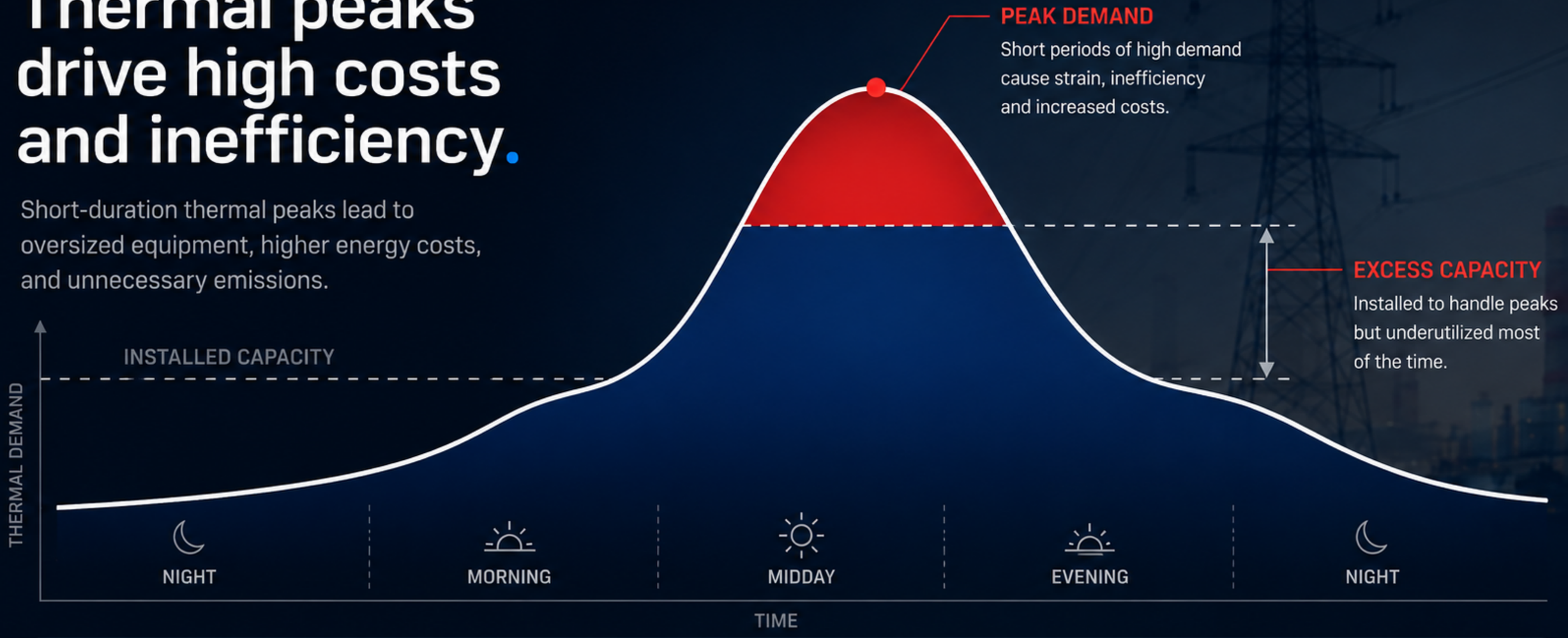
PROTECT SYSTEMS
Reduces stress and extends equipment lifespan.

IMPROVE EFFICIENCY
Lowers energy use and operational costs.

THE PROBLEM

Thermal peaks drive high costs and inefficiency.

Short-duration thermal peaks lead to oversized equipment, higher energy costs, and unnecessary emissions.



HIGHER COSTS
Pay more for capacity you don't fully use.

INEFFICIENCY
Equipment runs below optimal load.

MORE EMISSIONS
Peaks increase energy use and environmental impact.

OVERSIZED SYSTEMS
Built for the peak, wasted the rest of the time.

HOW IT WORKS

Passive thermal stabilization.

Patented thermal exchange architecture combining phase-change energy buffering with passive output stabilization.

01 **THERMAL BUFFERING**
Absorbs transient thermal peaks using latent heat storage.

02 **PASSIVE STABILIZATION**
Automatically adjusts exchanged thermal power to maintain stable output conditions during the peak.

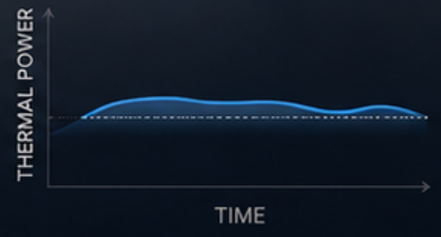
03 **MULTI-CIRCUIT INTEGRATION**
Supports multiple thermal exchange circuits, combining liquid and refrigerant-based loops.

PATENTED TECHNOLOGY
Combines the constant-temperature property of phase-change materials with a patented heat exchange system that passively stabilizes output temperature by adjusting the exchanged power.

UNSTABLE THERMAL IN
Short-duration thermal peaks from the system.

STABLE THERMAL OUT
Constant output conditions during the peak.

High peaks, instability and stress on the thermal system.



Peaks absorbed and released passively. Stable output conditions.

Configurable thermal architectures.

PeakTamer modules can be optimized for power density, operational stability or energy capacity depending on the application.

PeakTamer Pulse

High power density stabilization

PeakTamer Core

Balanced thermal stabilization

PeakTamer Reserve

Long-duration thermal energy storage

	Pulse	Core	Reserve
Primary Focus	Power Density	Operational Stability	Energy Capacity
Power-to-Energy Ratio	10:1	1:1	1:10
Output Elasticity	Very High	Balanced	Lower
Output Temperature Stability	Ultra Stable	Stable	Wider Range
Relative Cost per kWh	Higher	Balanced	Lower
Thermal Exchange Density	Very High	Balanced	Lower

POWER DENSITY
High instantaneous power

FLEXIBLE BY DESIGN
Scale modules to match any power and energy requirement.

ENERGY CAPACITY
High thermal energy

Scalable from kWh / kW to MWh / MW systems.

For more information: **info@peaktamer.com**