US GAS & ENERGY

INTEGRATED THERMAL INFRASTRUCTURE™

MacSunPod Canopy & Carport Systems

TURN UNDERUTILIZED SPACE INTO A PRODUCTIVE ENERGY ASSET

Heat • Cooling • Hot Water • Thermal Storage • Power*



A New Use for Proven Structural Platforms

MacSunPod structures for residential or **commercial uses.**

- Use modular canopy, carport, cantilever and large-span steel structures as the supporting infrastructure.
- Replace conventional photovoltaic module fields with enclosed, low-profile MacSunPod thermal collectors.
- Create productive shade structures over parking, fleet areas, walkways and commercial property.
- Capture thermal energy for high-value building and process applications.

SAME SPACE.
MORE VALUE.
A CLEANER TOMORROW.



MACSUNPOD™ STRUCTURE FAMILY

Modular. Scalable. Customizable.


OASIS LOUNGE / PERGOLA


STANDARD CARPORT


CANTILEVER CARPORT


DUAL CANTILEVER CARPORT


SUPER SPAN STRUCTURE


CUSTOM SOLUTIONS

Modular MacSunPod Architecture

Two module sizes create a flexible thermal canopy system.

MacSunPod™ FULL MODULE

8 ft x 12 ft | 96 sq ft



MacSunPod™ FILLER MODULE

4 ft x 4 ft | 16 sq ft



Approx. 18 in. high at center ridge

Enclosed, pyramid-profile housing

Engineered for durability, performance and year-round operation

MODULAR
Scales to your space and application.

FLEXIBLE
Full and filler modules work together.

INTEGRATED
Designed for canopy, carport and large-span structures.

SUSTAINABLE
Turn underutilized space into a productive energy asset.

Conceptual MacSunPod Configuration Matrix

Illustrative coverage using 8 × 12 ft full modules; 4 × 4 ft modules can fill remaining areas.

Approx. Canopy Coverage	MacSunPod Combination	Thermal Collection Footprint
12 × 16 ft	2 full modules	192 sq ft
12 × 24 ft	3 full modules	288 sq ft
12 × 32 ft	4 full modules	384 sq ft
12 × 40 ft	5 full modules	480 sq ft
12 × 48 ft	6 full modules	576 sq ft
12 × 64 ft	8 full modules	768 sq ft
20 × 24 ft	5 full modules	480 sq ft
20 × 48 ft	10 full modules	960 sq ft

Concept only: final module count, spacing, attachment points, drainage and structural loading require engineering confirmation.

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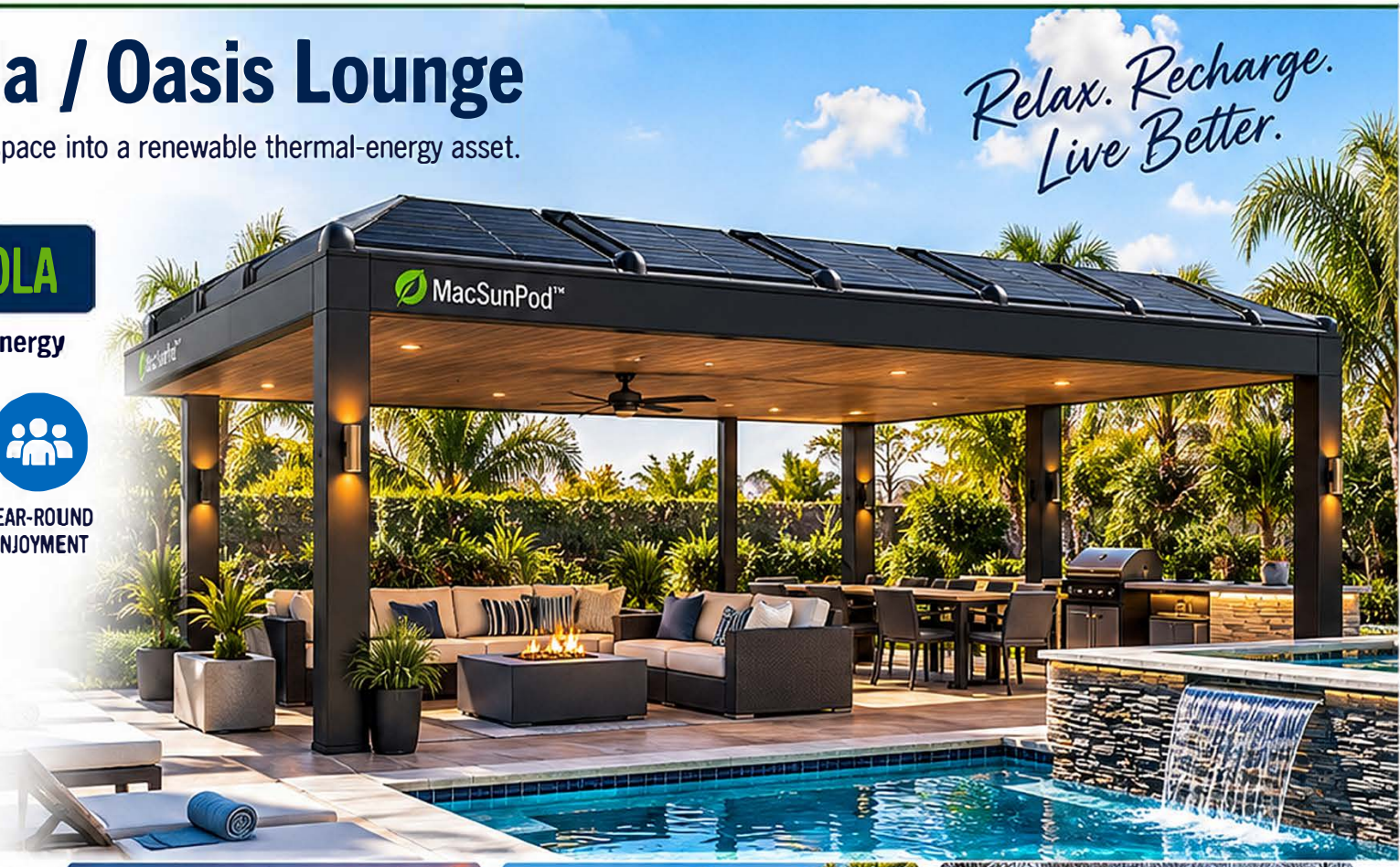
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CLEAN ENERGY TODAY. A STRONGER TOMORROW.

HEAT | COOLING | HOT WATER | THERMAL STORAGE | POWER*

Thermal Pergola / Oasis Lounge

A compact structure that turns outdoor space into a renewable thermal-energy asset.



OASIS LOUNGE / PERGOLA

Elevate Outdoor Spaces with Thermal Energy

OUTDOOR COMFORT | THERMAL COLLECTION | CLEAN ENERGY BEAUTIFUL DESIGN | YEAR-ROUND ENJOYMENT

- Shade and weather protection with integrated thermal collection.
- Potential applications: domestic hot water, pool/spa heating, space conditioning and thermal storage.
- Modular structure can scale in width as site requirements grow.
- Architectural finishes, lighting and accessories can be incorporated.
- Year round outdoor enjoyment with Oasis Lounge and your heated pool.


POOL & SPA HEATING


OUTDOOR LIVING


YEAR-ROUND USE

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TURN OUTDOOR SPACE INTO A CLEAN ENERGY ADVANTAGE.

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Single-Row Commercial Carport

Thermal collection above parking without consuming additional land.

- Ideal for employee, customer and fleet parking areas.
- MacSunPods form a repeating thermal collection field above the parking surface.
- Thermal energy can be routed to nearby buildings, storage or process loads.
- Canopy infrastructure can support lighting and other site accessories.



SINGLE-ROW MACSUNPOD CARPORT STRUCTURE

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Cantilever Thermal Carport

Open parking access with support columns positioned away from the vehicle side.

- Single-row parking coverage for commercial properties.
- Useful where open vehicle access and fewer obstructions are important.
- Modular MacSunPod rows can extend along the parking field.
- Supports a clean architectural presentation for customer-facing sites.



CANTILEVER MACSUNPOD STRUCTURE

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Dual Cantilever Thermal Carport

A center-supported structure designed to cover opposing parking rows.





DUAL CANTILEVER MACSUNPOD STRUCTURE

- Higher thermal collection density over existing parking areas.
- Well suited to supermarkets, cold storage, convenience retail and larger commercial sites.
- Central structural line preserves parking circulation on both sides.
- Scales by repeating structural bays and MacSunPod modules.

Super Span Thermal Structures

Large-area thermal canopies for fleet, loading, entrance & campus-scale applications.





LARGE-SPAN MACSUNPOD STRUCTURE

- Designed conceptually for large covered areas and repeated interconnected bays.
- Potential uses include fleet staging, refrigerated transportation, distribution centers and large parking fields.
- Creates a significant thermal collection surface without taking productive ground area out of service.
- Can become part of a site-wide thermal infrastructure strategy.

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Convenience Stores & Gas Stations

Turn canopy and parking surfaces into working thermal infrastructure.

RETAIL / FUEL CANOPY CONCEPT



- Support hot water, store HVAC, refrigeration and thermal storage strategies.
- Create shade while collecting renewable thermal energy.
- Use modular 8 × 12 ft and 4 × 4 ft units to adapt to canopy geometry.
- A highly visible demonstration of the site's energy strategy.

LOWER OPERATING COSTS | **HOT WATER & HEATING** | **REFRIGERATION SUPPORT** | **CLEAN MODERN IMAGE**

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Cold Storage & Distribution

Large roofs, parking fields and truck areas create multiple opportuniities for thermal collection.

DISTRIBUTION FACILITY THERMAL CANOPY



- Thermal collection can complement refrigeration and cooling strategies.
- Captured heat can be stored and directed to useful thermal loads.
- Parking and staging areas can provide additional collection surface beyond the building roof.
- Modular canopy systems can grow with the facility.

REFRIGERATION SUPPORT | **DEFROST & PROCESS HEAT** | **REDUCE ENERGY COST** | **SUSTAINABLE OPERATIONS**

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Refrigerated Transportation Solutions

MacSunPod thermal systems help reduce diesel consumption, lower operating costs and support a more sustainable supply chain.

- Capture solar thermal energy on the trailer roof using low-profile MacSunPod modules.
- Provide continuous thermal energy, with night-time heat retention, to reduce or eliminate diesel TRU (transport refrigeration unit) runtime.
- Help lower fuel costs, reduce emissions and extend TRU life.
- Ideal for refrigerated fleets, intermodal containers and temperature-sensitive cargo.
- Supports fleet sustainability goals and ESG initiatives.



LOWER OPERATING COSTS

REDUCED EMISSIONS

EXTENDED TRU LIFE

A CLEANER, MORE SUSTAINABLE SUPPLY CHAIN



MacSunPod ROOF INSTALLATION

Low-profile. Durable. High-performance.



INTEGRATED THERMAL SYSTEM

Helps reduce or eliminate diesel runtime.



FLEET APPLICATIONS

Scalable for single units or large fleets.

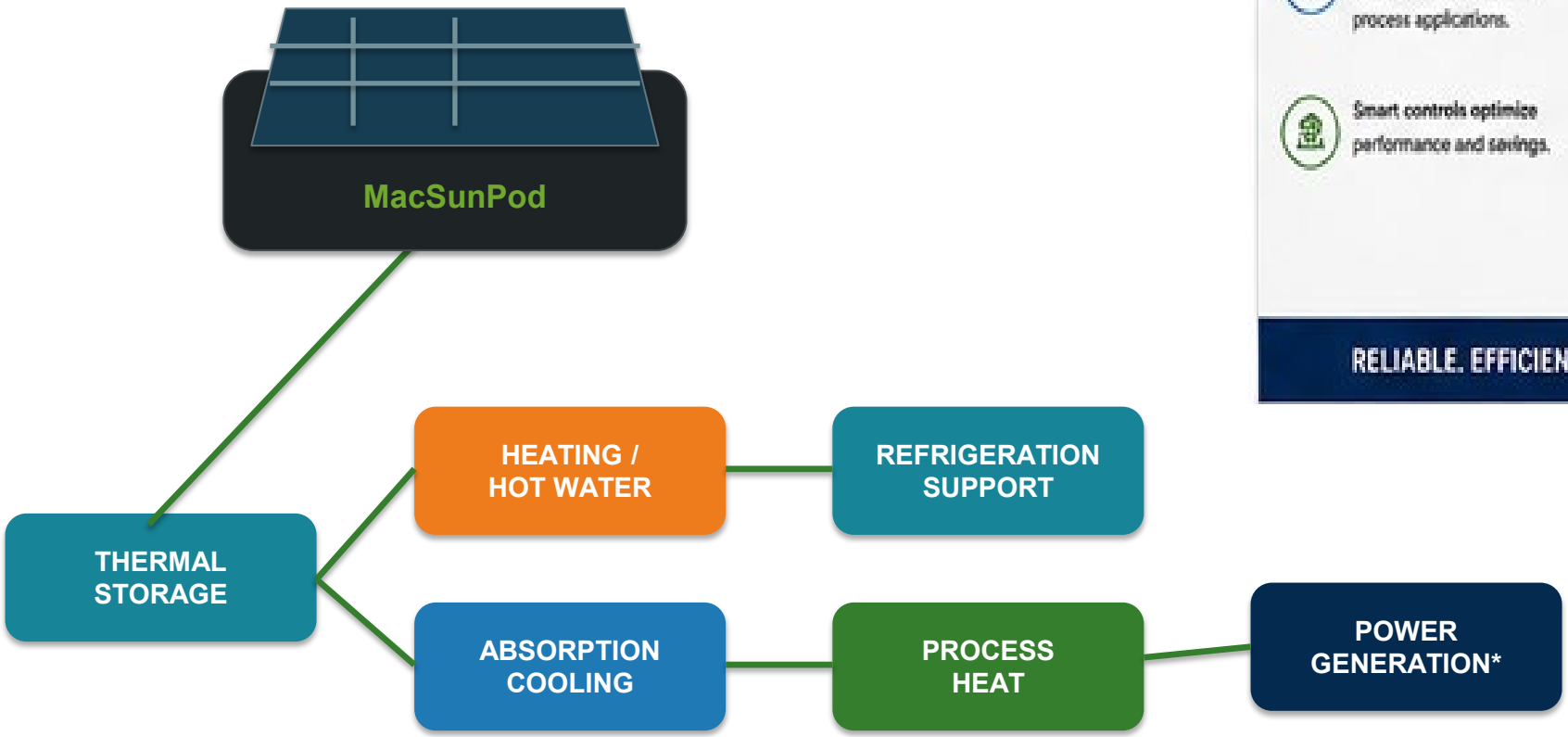


INTERMODAL SOLUTIONS

Bring thermal efficiency to the supply chain.

One Thermal Source.
Multiple Business Benefits.

Capture • Store • Distribute • Utilize





The business case is not simply energy collection - it is directing captured thermal energy to the highest-value application at the right time.

**Where applicable based on system configuration.*

Why Integrated Thermal Infrastructure?

USE EXISTING SPACE
Parking, canopies and outdoor areas become productive energy assets.

MODULAR BY DESIGN
8 × 12 ft and 4 × 4 ft MacSunPods support flexible layouts.

STORE THERMAL ENERGY
Capture energy when available and deploy it when business loads require it.

SERVE MULTIPLE LOADS
Heating, cooling, hot water, refrigeration support and process heat.

SCALE WITH THE SITE
Repeat structural bays and collector modules as demand grows.

CREATE STRATEGIC VALUE
Turn energy infrastructure into an operating-cost and resilience tool.

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HEAT | COOLING | HOT WATER | THERMAL STORAGE | POWER*

Tiny Home Community

Sustainable. Affordable. Independent. A Brighter Tomorrow.

- Modular MacSunPod thermal infrastructure provides heat, cooling, hot water and power.
- Ideal for veteran communities, workforce housing, resorts and rural developments.
- Energy-efficient, off-grid capable designs with low operating costs.
- Scalable layouts with flexible home sizes and floor plans.
- Integrates with microgrids, energy storage and on-site water solutions.
- A healthier, more resilient lifestyle in a close-knit community.

More Than Homes...
A Healthier, Brighter Future




MODERN TINY HOME DESIGNS


COMMUNITY AMENITIES


NATURE & RECREATION


SCALABLE LAYOUTS


COMFORTABLE, EFFICIENT LIVING

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HEAT | COOLING | HOT WATER | THERMAL STORAGE | POWER*

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EVERY BTU HAS VALUE.™

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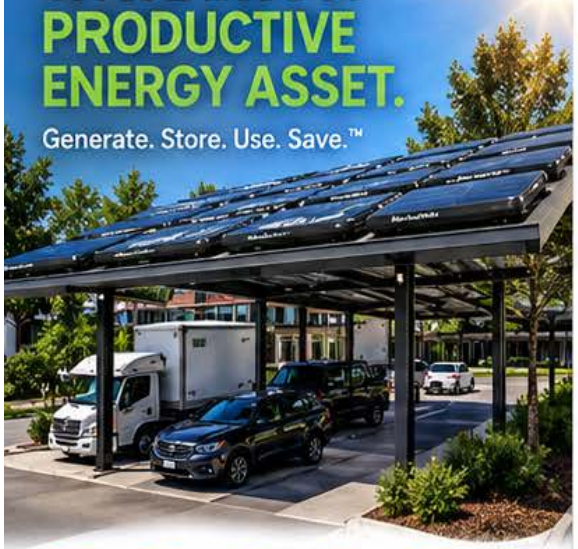
INTEGRATED THERMAL INFRASTRUCTURE™

CLEANER ENERGY. STRONGER COMMUNITIES. A BRIGHTER TOMORROW.

MacSunPod® Thermal Canopy Systems & Integrated Solutions

TURN UNDERUTILIZED SPACE INTO A PRODUCTIVE ENERGY ASSET.

Generate. Store. Use. Save.™



HEATING · HOT WATER · COOLING · ENERGY STORAGE · PROCESS HEATING · POWER GENERATION

Heat • Cooling • Hot Water • Thermal Storage • Power

MAXIMIZING THE VALUE OF EVERY BTU™

LOWER COSTS | GREATER RESILIENCE | REDUCED EMISSIONS | HIGHER PROFITABILITY

ONE THERMAL SOURCE. MULTIPLE BENEFITS.

Built for today. Ready for tomorrow.

LOWER OPERATING COSTS
Reduce utility expenses and improve your bottom line.

IMPROVE RESILIENCE
Enhance operational reliability and protect critical operations.

REDUCE EMISSIONS
Lower carbon footprint and meet sustainability goals.

INCREASE PROFITABILITY
Turn energy savings into stronger margins and long-term value.

ENERGY INDEPENDENCE
Generate, store, and use thermal energy when and where you need it most.

FUTURE READY
Scalable, modular systems built to evolve with your needs.



The MacSunPod® Advantage

High-efficiency, enclosed thermal collectors engineered for maximum performance, durability, and easy integration.

*Results may vary based on system configuration.

APPLICATIONS THAT DELIVER MEASURABLE RESULTS.

REFRIGERATED TRANSPORTATION
Keep your fleet efficient and your load protected.



COLD STORAGE & DISTRIBUTION
Maintain ideal conditions. Lower costs.



SUPERMARKETS & GROCERY
Proven refrigeration and hot water while reducing operating costs.



CONVENIENCE STORES
Lower energy bills. Improve comfort. Strengthen margins.



GAS STATIONS
Reduce costs across stores, car washes, and operations.





INTEGRATED. SCALABLE. SUSTAINABLE.

Thermal energy that works as hard as you do.

PEOPLE | PLANET | PROSPERITY

BUILT TO FIT SITE.

Engineered for your space.

- ✓ Modular & Scalable
- ✓ Low Profile Design
- ✓ Structural Flexibility
- ✓ Fast Installation
- ✓ Engineered to Perform



LET'S TURN YOUR PROPERTY INTO A PRODUCTIVE THERMAL INFRASTRUCTURE.



TINY HOME COMMUNITIES

Sustainable Living. Smarter Energy.

MacSunPod systems provide renewable hot water, heating, and cooling for tiny home communities — reducing costs and supporting resilient, self-sufficient living.



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