

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*



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Transforming Parking, Outdoor Spaces and Commercial Property into Productive Energy Assets

HEATING HOT WATER COOLING REFRIGERATION PROCESS HEAT POWER & STORAGE

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A New Use for Proven Structural Platforms

First-draft concept based on the Infinity Rack structure families and MacSunPod module dimensions.

- 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.

MACSUNPOD™ STRUCTURE FAMILY

Modular. Scalable. Customizable.



OASIS LOUNGE / PERGOLA



ALUMINUM CARPORT



CANTILEVER CARPORT



DUAL CANTILEVER CARPORT



SUPER SPAN STRUCTURE



CUSTOM SOLUTIONS

Modular MacSunPod Architecture

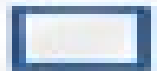
Two module sizes create a flexible thermal canopy system.

MODULAR ARCHITECTURE

Designed to Fit. Built to Perform.



FULL MACSUNPOD™
8 ft x 12 ft (96 sq ft)



SMALL MACSUNPOD™
4 ft x 4 ft (16 sq ft)



FILLER UNITS
Close gaps for
maximum coverage

Combine full and small units to efficiently fill
any structure size with clean, uniform coverage.



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.

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



- 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.



OUTDOOR COMFORT



THERMAL ENERGY
COLLECTION



BEAUTIFUL DESIGN



YEAR-ROUND
ENJOYMENT

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HEAT



COOLING



HOT WATER



THERMAL
STORAGE



POWER*



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Single-Row Commercial Carport

Thermal collection above parking without consuming additional land.

SINGLE-ROW MACSUNPOD CARPORT STRUCTURE

ALUMINUM CARPORT

Watertight Protection. Thermal Energy. Lower Costs.



WEATHER PROTECTION



THERMAL ENERGY
FOR YOUR BUSINESS



EASY TO INSTALL



LONG-TERM VALUE

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- 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.

Cantilever Thermal Carport

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

CANTILEVER MACSUNPOD STRUCTURE

CANTILEVER CARPORT

Single Row Parking with Maximum Clearance



MAXIMUM CLEARANCE



THERMAL ENERGY
COLLECTION



SLEEK DESIGN



DURABLE & STRONG

- 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.

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 and campus-scale applications.

LARGE-SPAN MACSUNPOD STRUCTURE

SUPER SPAN STRUCTURE

Large-Scale Coverage for Big Applications



UP TO 70- FT SPAN



LARGE AREA COVERAGE



IDEAL FOR FLEETS
& FACILITIES



ENGINEERED
STRENGTH

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- 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.

Convenience Stores & Gas Stations

Turn canopy and parking surfaces into working thermal infrastructure.

RETAIL / FUEL CANOPY CONCEPT

CONVENIENCE STORES & GAS STATIONS

Turn Your Canopy Into a Thermal Energy Asset



LOWER OPERATING
COSTS



HOT WATER &
HEATING



REFRIGERATION
SUPPORT



CLEAN, MODERN
IMAGE

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- 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.

Cold Storage & Distribution

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

DISTRIBUTION FACILITY THERMAL CANOPY

COLD STORAGE & DISTRIBUTION

Power the Cold Chain with Reliable Thermal Energy



REFRIGERATION
SUPPORT



DEFROST & PROCESS
HEAT



REDUCE ENERGY
COSTS



SUSTAINABLE
OPERATIONS

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- 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.

Refrigerated Transportation & Fleet Facilities

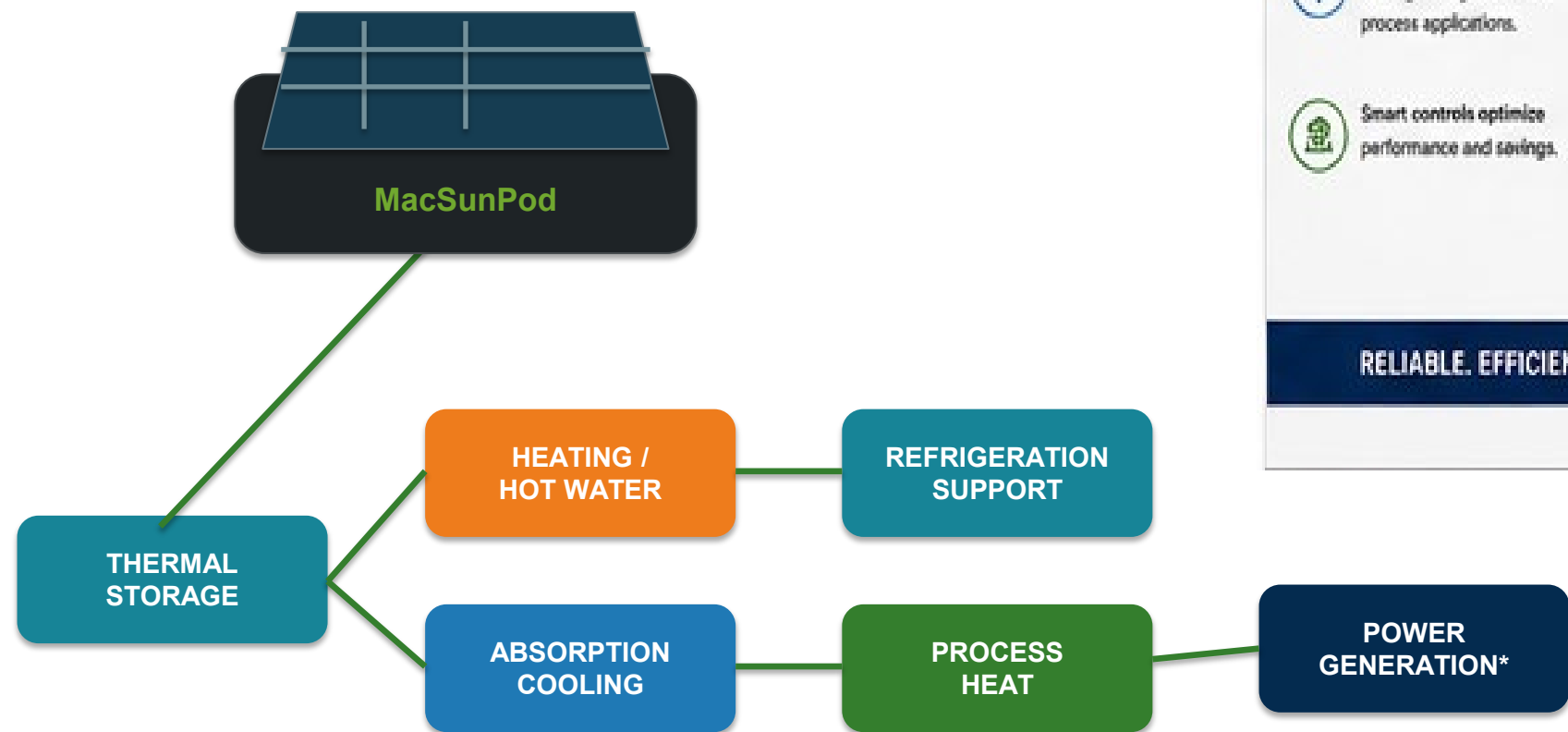
Extend the MacSunPod platform from the trailer roof to fleet infrastructure.



- Create thermal collection above truck parking, staging and loading areas.
- Pair fixed-site thermal infrastructure with truck-mounted MacSunPod applications.
- Support a broader strategy for reducing conventional fuel and electrical demand.
- A scalable platform for distribution and refrigerated transportation operators.

One Thermal Source. Multiple Business Benefits.

Capture • Store • Distribute • Utilize





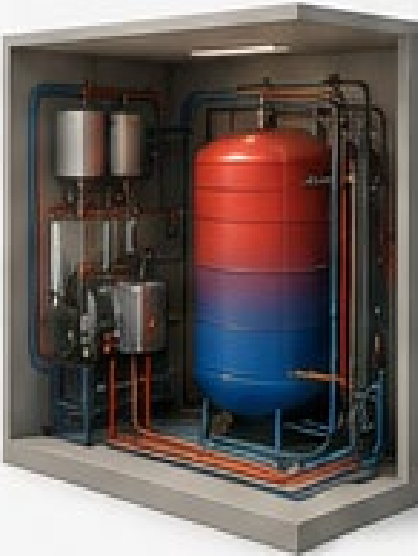
High-efficiency storage captures energy for on-demand use.



Supports heating, hot water, cooling, refrigeration and process applications.



Smart controls optimize performance and savings.



RELIABLE. EFFICIENT. BUILT FOR YOUR BUSINESS.

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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.

Tiny Home Communities

Shared MacSunPod thermal infrastructure for resilient, efficient community living.



SUSTAINABLE. RESILIENT. TOGETHER.

Shared thermal energy solutions
for a better way to live.



**AFFORDABLE
LIVING**

Lower utility costs
increase affordability.



**RENEWABLE
ENERGY**

Clean, sustainable
thermal energy.



**COMMUNITY
FOCUSED**

Shared resources
build stronger
communities.



**FUTURE
READY**

Scalable systems
that grow with
your needs.



HEAT



COOLING



HOT WATER



THERMAL
STORAGE



POWER*



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ONE COMMUNITY. SHARED ENERGY ASSETS.



MacSunPod canopies over parking, walkways
and gathering areas.



Thermal energy can support domestic hot water,
space heating and cooling.



Central thermal storage can serve multiple
homes from shared infrastructure.



Canopies provide useful shade and weather
protection while collecting energy.



Modular 8 × 12 ft and 4 × 4 ft MacSunPods allow
the system to scale as the community grows.



Potential fit for tiny-home villages, workforce
housing, veteran communities and remote
developments.



TURN COMMUNITY SPACE INTO **PRODUCTIVE** THERMAL INFRASTRUCTURE.

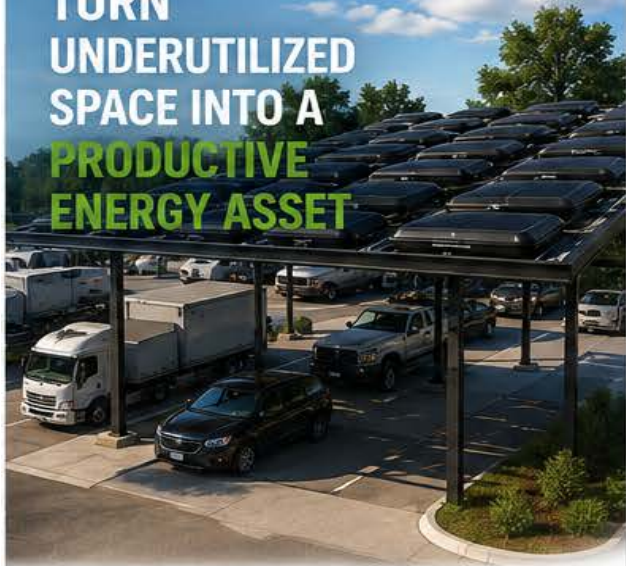


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INTEGRATED THERMAL INFRASTRUCTURE™



MacSunPod Thermal Canopy
Systems & Integrated Solutions

TURN
UNDERUTILIZED
SPACE INTO A
PRODUCTIVE
ENERGY ASSET



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

MAXIMIZING THE VALUE OF EVERY BTU™



LOWER
COSTS



IMPROVE
RESILIENCE



REDUCE
EMISSIONS



DRIVE
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.

*Where applicable based on system configuration.

APPLICATIONS THAT DELIVER MEASURABLE RESULTS.



REFRIGERATED TRANSPORTATION

Keep your fleet efficient and your loads protected.



COLD STORAGE & DISTRIBUTION

Maintain ideal conditions. Lower costs.



SUPERMARKETS & GROCERY

Power 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.



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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