

24-HOUR COOLING. POWERED BY THE SUN.

Solar-powered refrigeration with thermal storage built in.

- ✓ Use solar as your primary energy source.
- ✓ Use the grid or generator as backup.

Sun-Ice combines solar-powered refrigeration with patented Ice Wall thermal storage. During the day, solar energy powers refrigeration and charges the Ice Wall. After sunset, stored cooling continues to support the cold room.



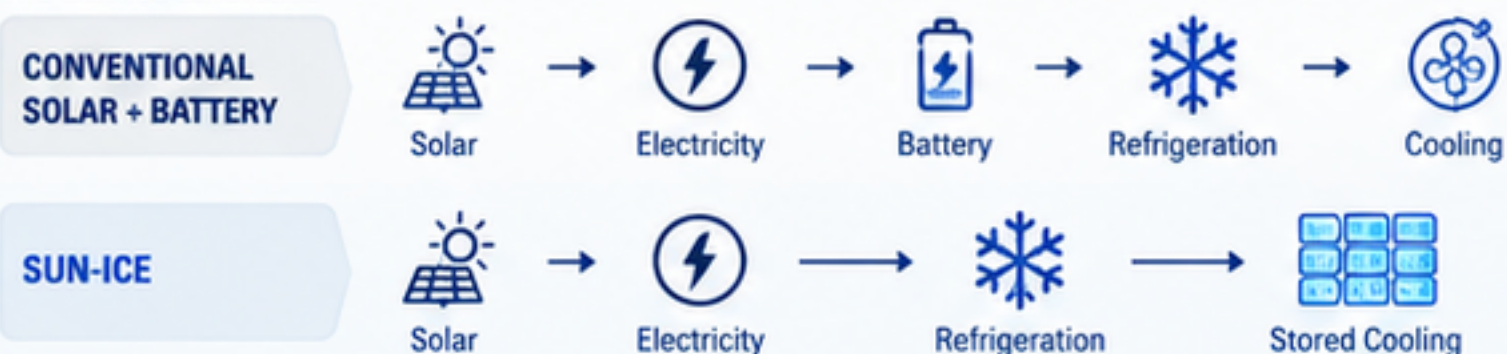
RELIABLE • SOLAR POWERED • THERMALLY STORED
Built for grid-stressed, high-cooling-demand climates

WHY SUN-ICE?

 SOLAR-FIRST COOLING Solar powers refrigeration.	 24-HOUR COOLING Stored cooling keeps you covered day and night.	 TEMPERATURE PROTECTION Maintains safe temperatures in hot conditions.	 GRID & DIESEL AS BACKUP Reliable backup when you need it.	 LOWER OPERATION COST Reduces energy costs with solar-first operation.	 RETROFIT READY Integrates with existing cold rooms.
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STORE COOLING, NOT ELECTRICITY.

The Sun-Ice difference



The Ice Wall stores energy directly as cooling — the form your cold room actually needs.
No battery in the chain.

PROVEN PERFORMANCE

SHANGHAI • 35 m³ COLD ROOM • 4°C

 40 kWh Daily electricity savings (Shanghai reference)	 24/7 Solar-first cooling day and night	 9 tonnes Annual CO ₂ reduction
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DESIGNED FOR COLD STORAGE

2°C AND ABOVE

 Chilled Food Storage	 Fresh Produce	 Fish & Seafood	 Dairy
 Meat	 Pharmaceuticals & Medical Products	 Agricultural Produce	 Retail & Supermarket Cold Rooms

BUILT FOR 24-HOUR COOLING

 DAY Solar powers refrigeration and charges the Ice Wall.	 NIGHT Solar unavailable. Stored cooling supports the cold room.	 POWER INTERRUPTION Grid or generator backup. Stored cooling provides thermal resilience.
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Solar first. Thermal storage second. Grid or generator as backup.

KEY BENEFITS

- ✓ 2°C and above
- ✓ 24-hour cooling
- ✓ Solar-first operation
- ✓ Thermal storage for night-time cooling
- ✓ Grid & generator backup
- ✓ Reduced electricity consumption
- ✓ Reduced peak electrical demand
- ✓ Relieves grid stress in high-temperature climates
- ✓ Protects food security across grid-unreliable and off-grid locations
- ✓ No battery-based energy storage
- ✓ Water-based thermal storage
- ✓ 50+ year designed service life
- ✓ No thermal storage capacity degradation
- ✓ Retrofit capable
- ✓ Modular and scalable
- ✓ Automatic operation



THE SUN SETS. YOUR COOLING DOESN'T.

SUN-ICE

24-HOUR COOLING POWERED BY THE SUN.

Reliable • Solar Powered • Thermally Stored
Built for a more resilient, food-secure and sustainable future.