



Reliable Climate Control

with balanced grid support · Zero Carbon



Villas
in Bali

Solar-powered 24/7 cooling with automatic humidity control for homes, villas, and stand-alone properties

Solar power freezes an ice wall by day,
it melts to provide cooling through the night and outages

Proven Performance

Typical 60sqm villa	Result	Unit
Energy Use (Grid / Generator)	60	kWh/day
Energy Use (Sun-Ice Energy)	0	kWh/day
Daily Reduction	100	%
Off-Grid Uptime	24	Hours

Source: 40 villas in Bali Indonesia

Tangible Results



Financial

- €0.07/kWh with solar and PCM storage
- €0.04/kWh daytime solar cost
- €0.03/kWh night time pcm storage cost
- Investment payback period: 7 years or less



Operational

- 100% uptime for cooling & dehumidification
- 24/7 comfort & protection for comfort, property protection & health
- Low airflow speed, no direct draft on people



Environmental

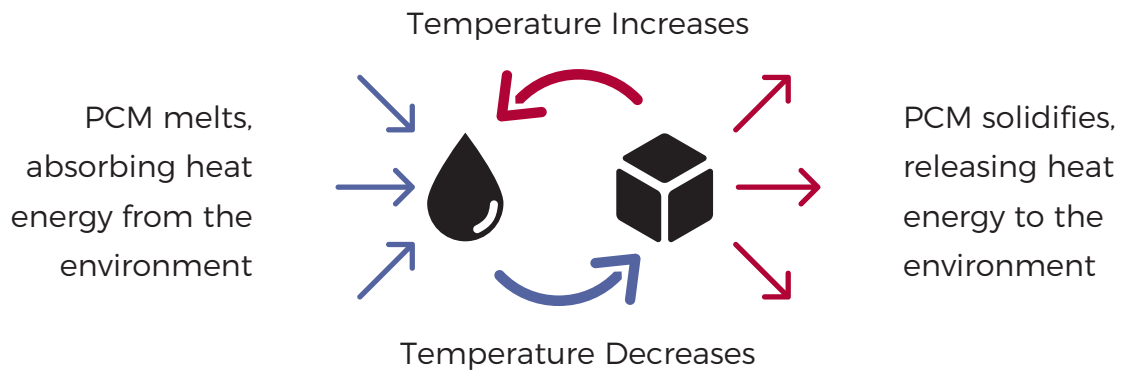
- 5.6 tons CO₂ avoided/year
- Like taking 2 cars off the road



ADAPTABILITY

- Suitable for a wide range of scenarios (No grid/ grid or generator support)

Our solution centers around our patented **ACTIVE PCM** technology



Using integrated technology, captured **solar or other intermittent energy is stored in PCM**



PCM is a substance that releases/absorbs large amounts of latent energy through a phase change between liquid to solid



System Schematic:

