



SPACECOOL

Cooling the Earth with less than 1mm of Foil

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- SPACECOOL
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Nordic countries hit by 'truly unprecedented' heatwave

Scientists record longest streak of temperatures higher than 30C in region in records going back to 1961



A thermometer displaying a temperature of 31C in Rovaniemi, Finland, last month. Photograph: Alexander Kuznetsov/Reuters

Cold Nordic countries are being seared by "truly unprecedented" heat, as hot weather strengthened and lengthened by carbon pollution continues to roast northern Europe.

United Nations | UN News | Global perspective Human stories

Q SEARCH

Extreme heat is breaking records worldwide: UN weather agency



Finland urged to prepare workplaces for heatwaves



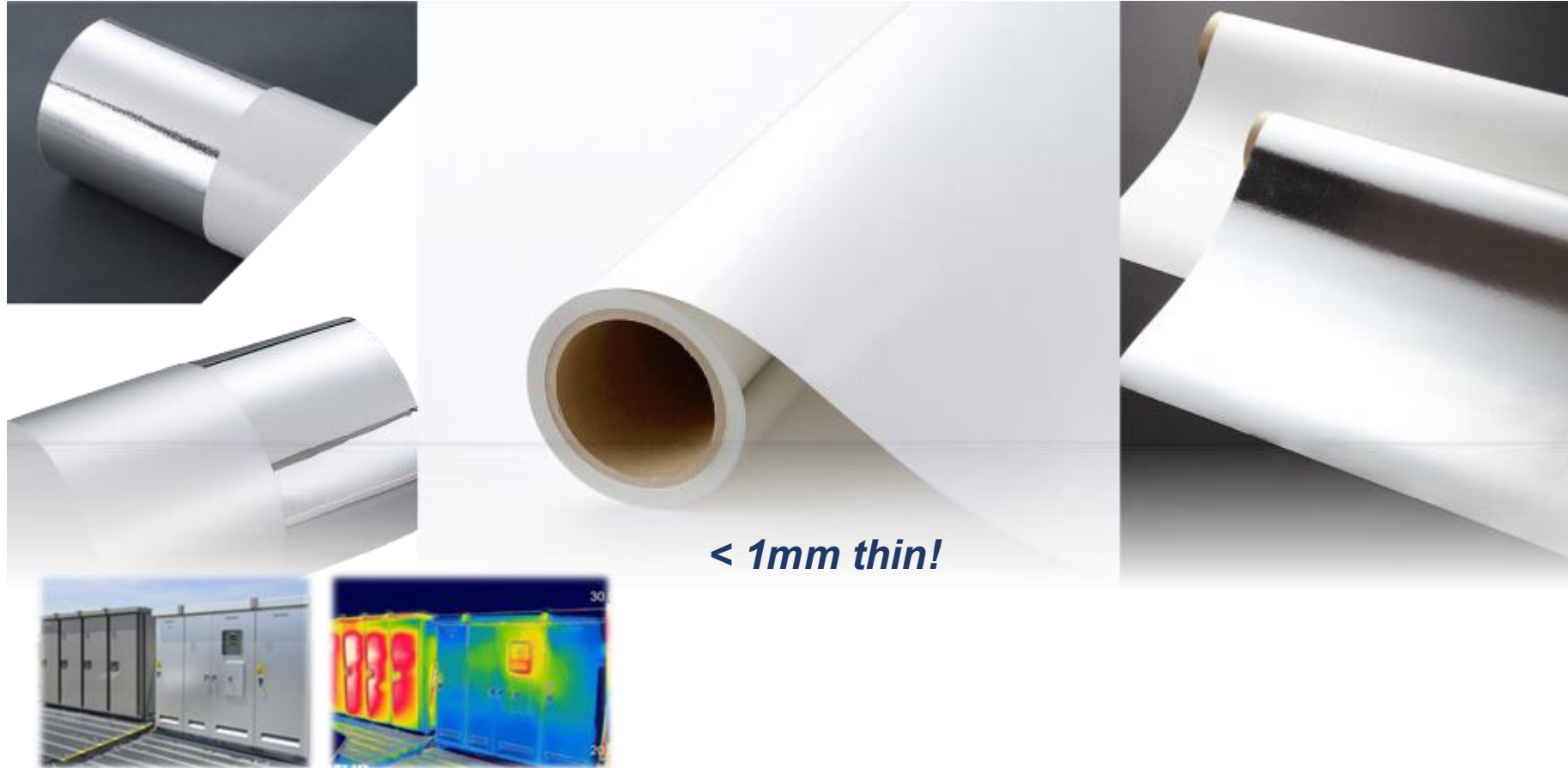
Date: 10 October, 2025

Year: 2025

Heatwaves keep coming...

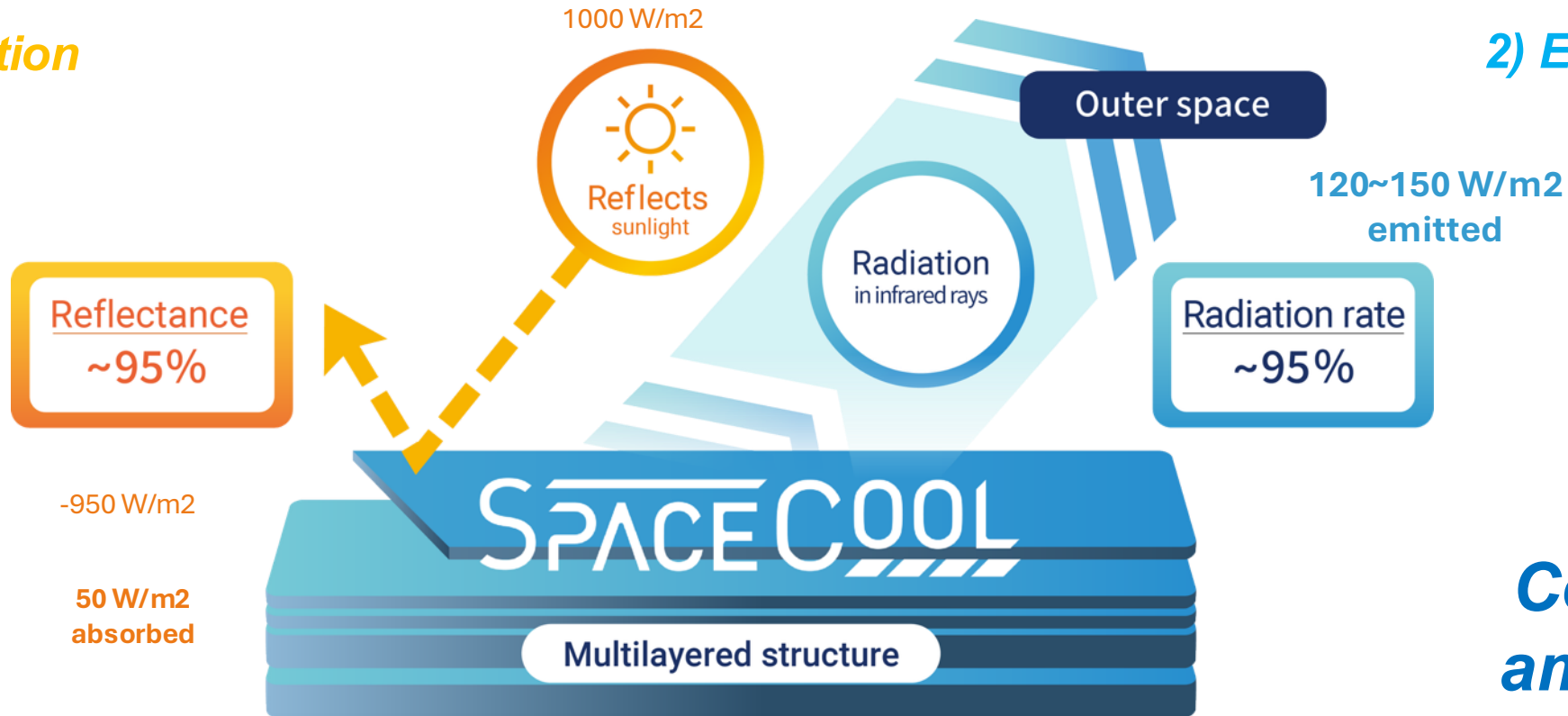


Does cooling always require energy?



Cools below air temperature under scorching sun!

1) Reflection



2) Emission

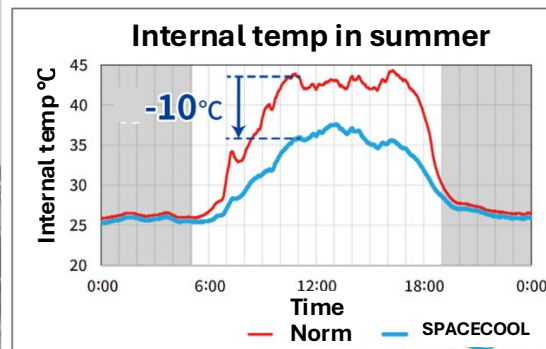
Cooling below ambient temperature!

Zero energy cooling is achieved

Absorbed Solar Energy

< Radiative Cooling Energy

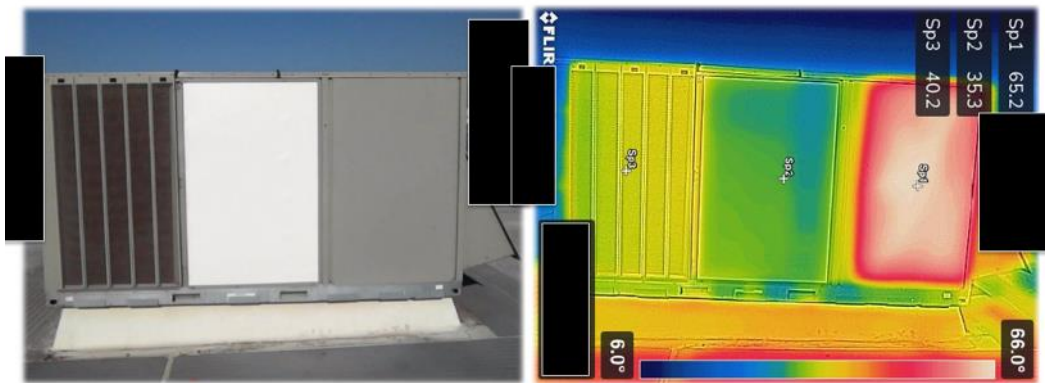
- **Avoid huge cost due to failure** at peak temperatures
- **Stop derating** of power electronics
- **Protect Battery** Energy Storage Systems (BESS)
- **Protect critical infrastructure**



Already
>5,555 units
installed

Reduce Energy needed for Active Cooling

SPACECOOL reduced the surface temperature to 30 °C (≈ 86 °F).



20250830 [redacted] RTU
East faced, 8:37 AM

TEMPERATURES	
Spot 1	65.2 °C
Spot 2 w/SPACECOOL	35.3 °C
Spot 3	40.2 °C

Warehouse with **60,000 sqm** of roof (USA)

SPACECOOL on **33 rooftop AC units**

Saving **173,000 kWh energy / y**

69 tons of CO₂ reduction

ROI <2 yrs

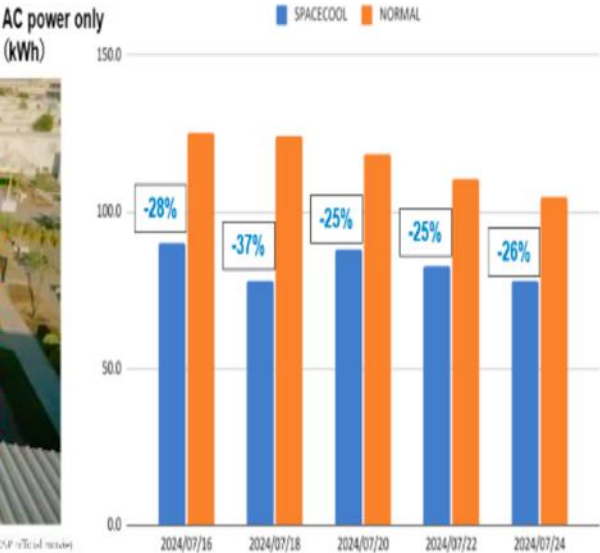


-29% reduction of AC energy consumption
-21 ton-CO₂ decrease over 15 years

	SPACECOOL	NORMAL	Difference
Average temperature (°C)@12PM	47.4	55.0	-7.6
Average daily power consumption for AC (kWh)	83	117	-34 (-29%)



Comparison of AC power consumption between normal and SPACECOOL application



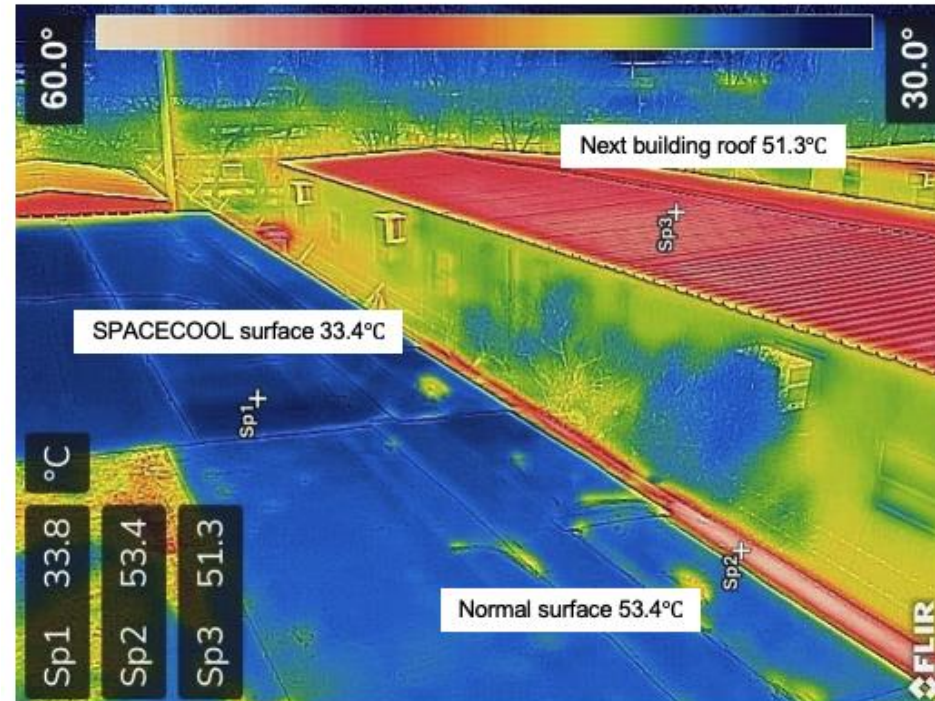
OsakaGas/300m²/
Roof Shade

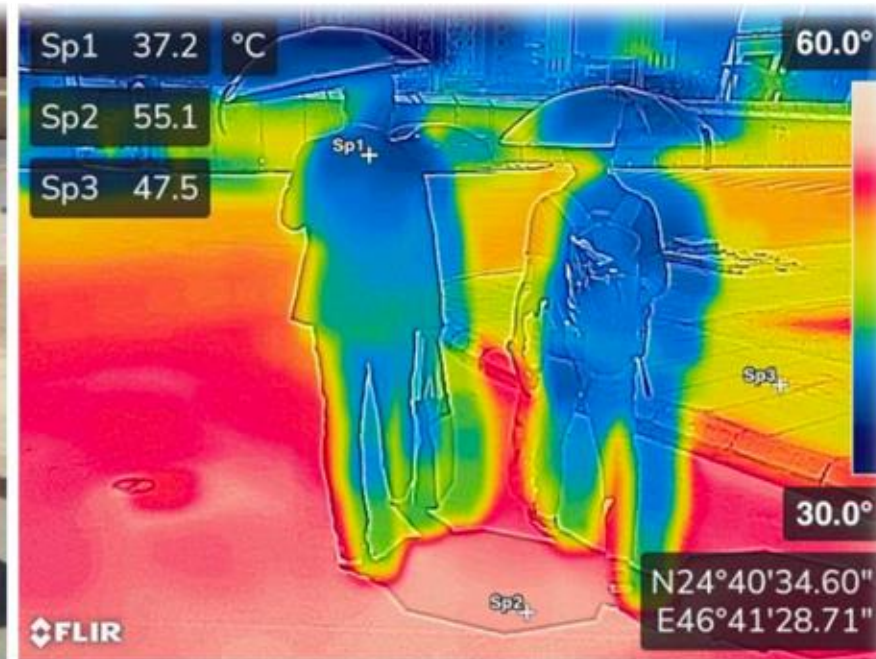


Tokyo Metropolitan Gov./600m²/
Water Proof Sheet



World EXPO/2800m²/
18m height Tent







Calls addressed as partner

HORIZON-NEB-2026-01-PARTICIPATION-02:

Innovative approaches for the spatial design of neighbourhoods

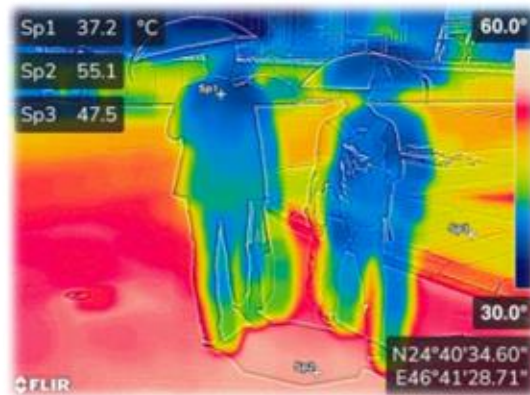
HORIZON-NEB-2026-01-REGEN-01:

Sustainable, inclusive, affordable and beautiful solutions for thermal comfort in buildings

HORIZON-NEB-2025-01-REGEN-03:

Innovative solutions for the sustainable and beautiful use of vertical space

SPACE COOL



Looking for

- Designers & Architects
- Developers
- Municipalities
- Researchers
- Installers
- Project coordinators



SPACECOOL

世界に木陰の涼しさを

Let's coolnect!

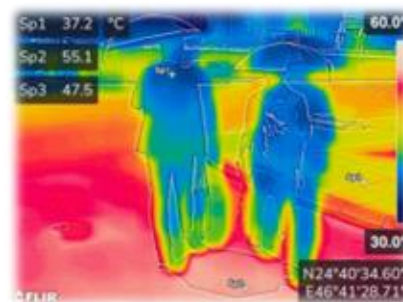
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muRata



Company information

HP:



Member of

UN
environment
programme

