



At Columbia University, a panel coated with a novel polymer film radiates heat through the atmosphere to outer space, making it dramatically cooler than its surroundings. One could reduce the need for air conditioning.
PHOTOGRAPH BY JYOTIRMAY JANDAL

ENVIRONMENT | PLANET POSSIBLE

This new technology could cool people down—without electricity



Multilayered Radiative Cooling Film

USA

Designed by Raman and Shanhui Fan.

Innovating radiative

Reflecting infrared

Passive cooling

Energy efficiency

Radiative cooling

9 INDUSTRY, INNOVATION
AND INFRASTRUCTURE



11 SUSTAINABLE CITIES
AND COMMUNITIES



13 CLIMATE
ACTION

