

Solar Air-Conditioning with Energy Storage



ENVIRONMENTAL

According to ClimateWell, a typical residential user of CoolStore-powered solar air-conditioning reduces the home's CO2 footprint by 15 tons annually.



SOCIAL

As ClimateWell's solar cooling solutions run without electricity, off grid areas could benefit from cooling and cold storage of foods and medicine.



ECONOMIC

A typical U.S. homeowner using ClimateWell-powered solar cooling cuts energy bills by 50%, according to the company.

Developed in Sweden, USA, Germany

Deployed in 16 countries in Europe, North America, South America, Africa, and Asia



"AT CLIMATEWELL WE ARE COMMITTED TO DELIVERING **ENERGY EFFICIENCY THAT PAYS FOR ITSELF.**"

PER OLOFSSON, CEO CLIMATEWELL

→ ClimateWell's CoolStore technology powers solar air-conditioning systems with integrated energy storage to provide heating during winter, cooling during summer, and hot water every day.

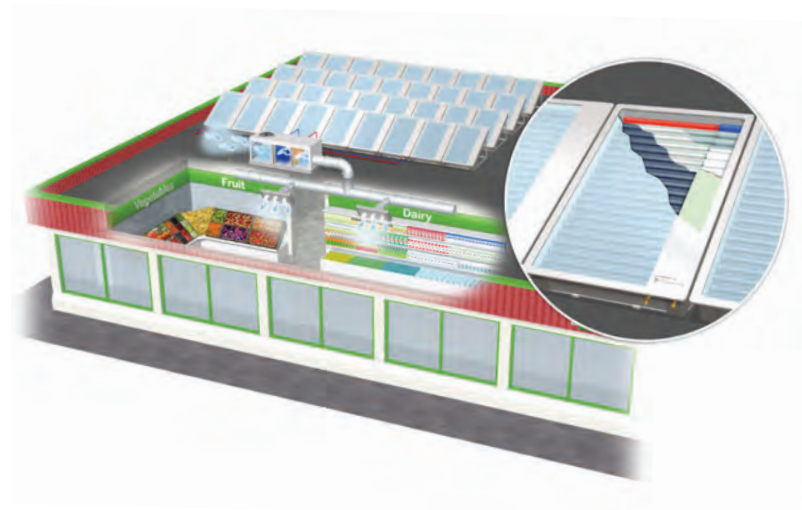
ClimateWell has developed a triple-state absorption technology that **converts and stores solar energy into heating and cooling** without need of electricity. The high-density integrated energy storage in a "dry" salt has no moving parts, is fully scalable, and cost-effective. The ClimateWell CoolStore component (essentially a glass tube) is directly integrated into a solar collector, making installation easy, with no need for external equipment.

The technology can be applied in single-family homes and commercial buildings alike, and can even be used for heat-driven **air-conditioning for heavy-duty vehicles and trucks.**

Why a Sustainia100 solution?

According to ClimateWell, 25% of the world's energy consumption is used for heating and cooling of buildings, with the largest part of this energy coming from fossil fuel-powered space heaters and electrically driven chillers. As the world's first solar collector with combined heating, cooling, and energy storage, this solution delivers twice as much energy compared to today's state-of-the-art solar collectors, increasing energy savings and reducing CO2 emissions.

The ClimateWell CoolStore component (the "tube") is integrated in to conventional solar thermal collectors, only powered by the sun, to deliver heating and cooling to buildings.



Solution by ClimateWell