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sunwall
VENTILATED SOLAR WALLS

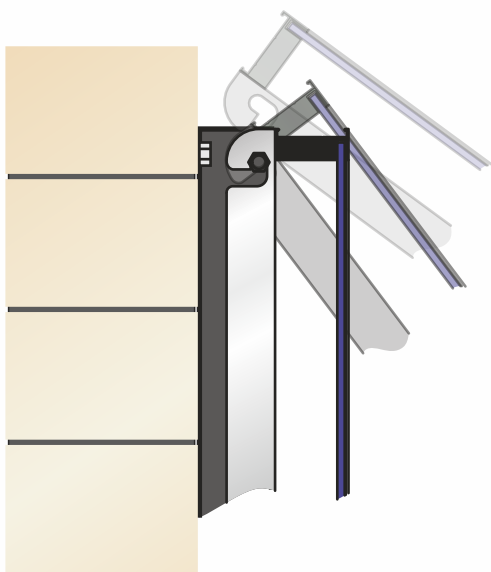
THE WALL BECOMES **SOLAR**

MADE IN ITALY 

by Cappello Alluminio

HIGH QUALITY BY CAPPELLO ALLUMINIO

FAST AND RELIABLE



QUICK INSTALLATION
RESULTING FROM A
STRUCTURE OF
INTERLOCKING
ALUMINIUM
PROFILES

Fast and reliable, as a result of the high quality components that make this innovative product a necessary system to combine architectural integration and maximum performance of the photovoltaic system.

CAPPELLO
alluminio

Cappello Alluminio has specialized in the production of frames for buildings, particularly in the processing of aluminum profiles for construction as well as the surface treatment of metals, for over forty years.

The dedication to research and development has led the group to invest in the project of ventilated hybrid facades with solar energy collection, from which **SunWall** came to life.

Through **SunWall**, Cappello Alluminio continues its constant progress in the field of research and innovation, taking a lead role in developing the energy efficiency of ventilated facades and anticipating the legislation that, in the next decade, will provide for an increase in the minimum energy standards for buildings.

SMART ENERGY

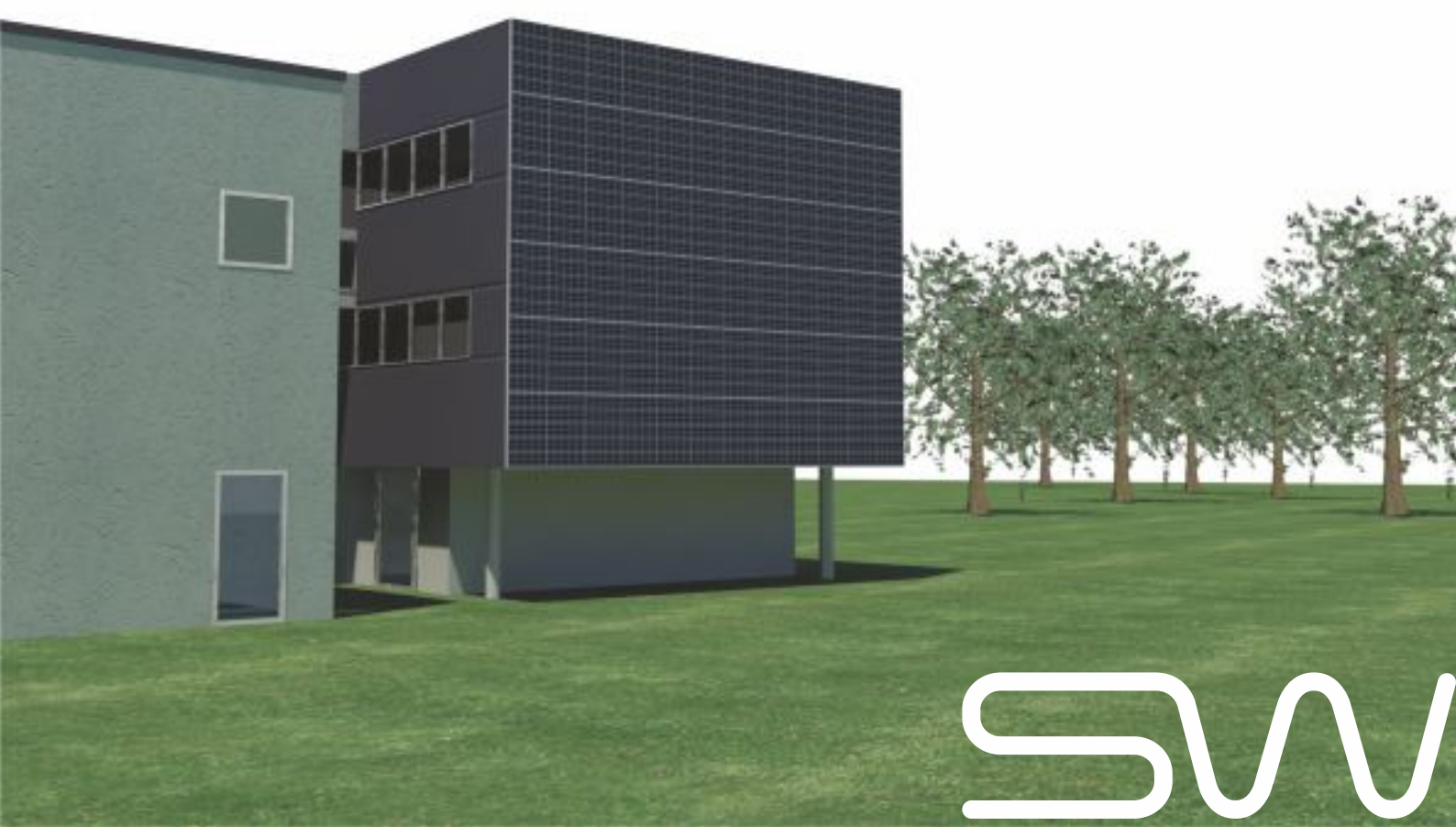
Increasing attention to sustainability has opened the way to new technologies for the production of energy. To date, photovoltaic technology solutions have found integration in both civil and industrial architecture, which typically use horizontal surfaces, on the ground or on the roofs of buildings, considerably underestimating the potential of vertical surfaces.

The walls of buildings or of industrial facilities remain unused and left to the effects of degradation and weathering.

SunWall boosts the functional and aesthetic properties of all parts of a building, with gains in terms of sustainability, energy conservation, and efficiency of all resources.

SunWall is a ventilated facade made by extruded aluminum profiles, 6060 alloy, and **Micron** photovoltaic modules manufactured by **Cappello Alluminio** to capture solar energy.

It is, therefore, an **innovative photovoltaic system** for the production of energy, from both a technological and architectural point of view. Quick assembly and versatility and the ability to leverage and enhance the unused and sometimes obsolete spaces of buildings are amongst the key factors which guarantee the success of this extraordinary product.



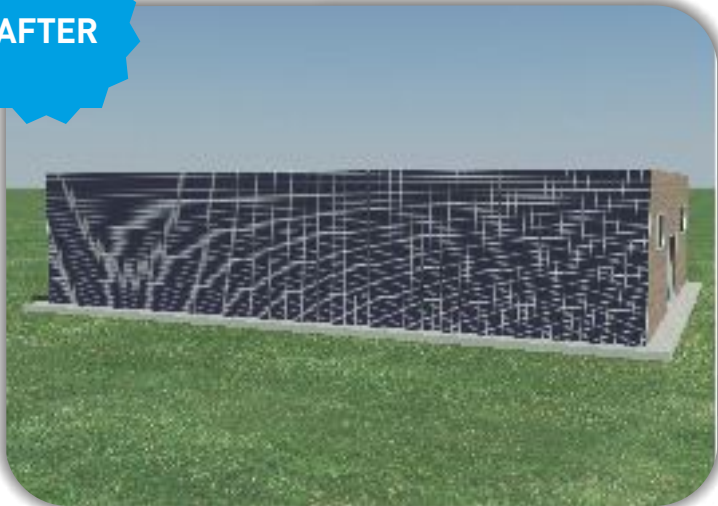
BEFORE



DURING

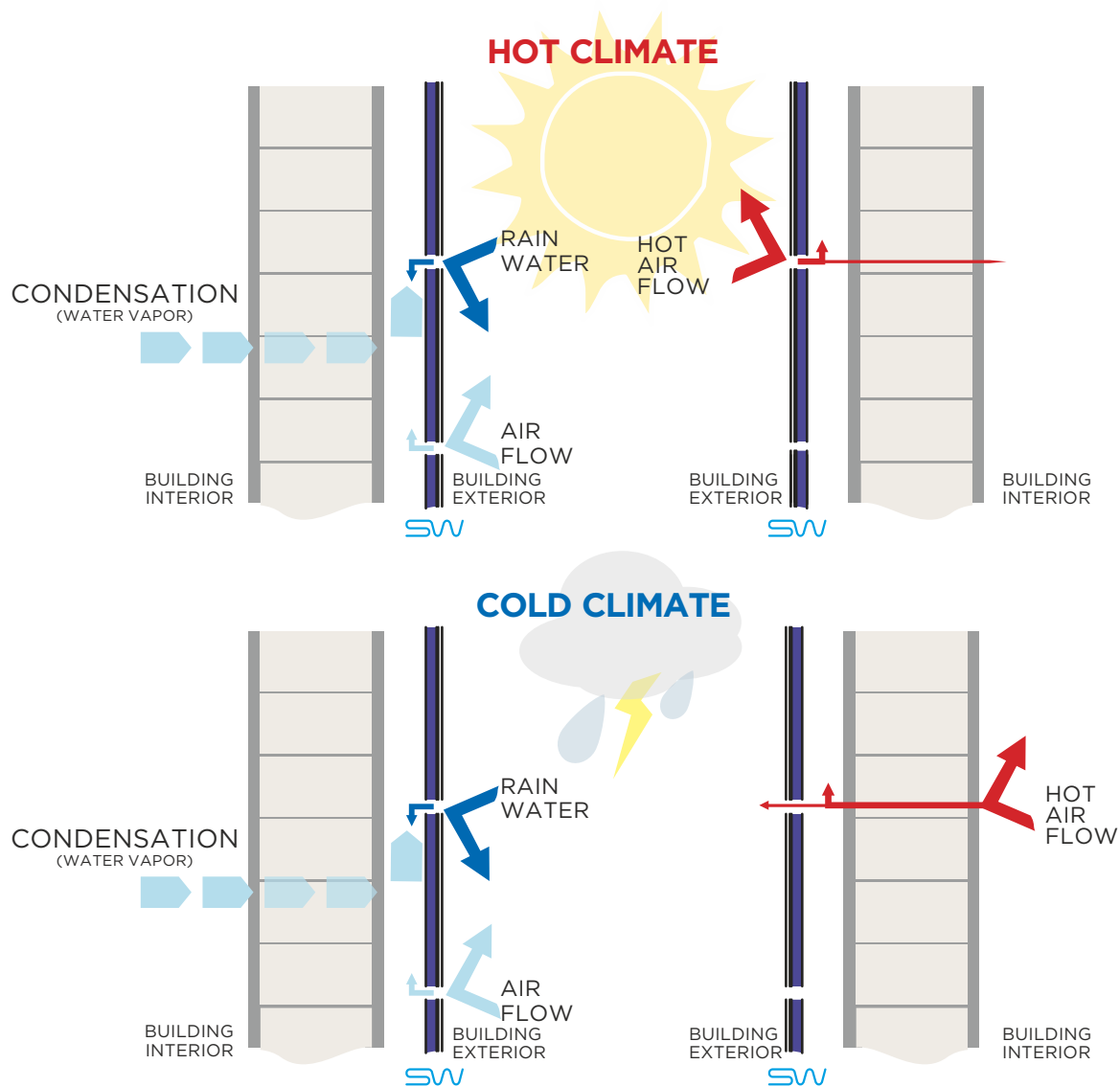


AFTER



THE SOLUTION FOR THE INTELLIGENT RECOVERY OF UNUSED WALLS

SunWall is architecturally integrated in buildings, allowing for the optimization of space and previously unused walls, which consequently become functional systems for the production of energy.



SUNWALL: MODERN AND FUNCTIONAL “MADE IN ITALY” DESIGN

Sunwall ventilated photovoltaic walls are designed to ensure reliability and versatility in all environmental conditions, relative to the size of the building, with the aim of making perfectly integrated photovoltaic installations.

Sunwall creates an air chamber between the walls of the existing building and the photovoltaic system, which allows water vapor, resulting from the difference in atmospheric pressure between the interior part and exterior part of the building, to pass through and be eliminated from the same system.

This is what is referred to as the “chimney effect”, which not only allows evaporation within a short period of time, but further ensures an air ventilation system which lowers the operating temperature of the special high-efficiency **Sunwall-Micron** PV-modules **by Cappello Alluminio**, thus increasing the energy production of the photovoltaic system connected.

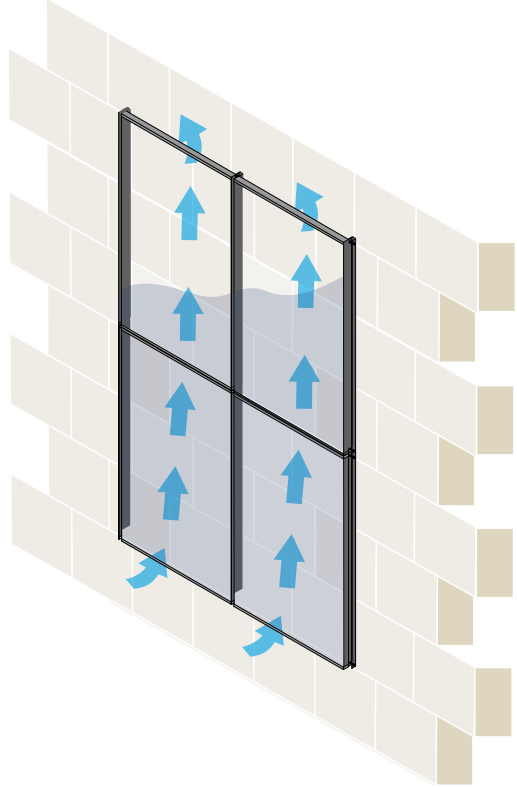
In the summer months, the ventilated photovoltaic **SunWall** system also offers excellent protection from the sun’s rays.



- ✓ **FINE DESIGN AND FINISHINGS:** the external covering of the building assumes a strong aesthetic and architectural value.
- ✓ **ENERGY EFFICIENCY:** improved thermal performance of the building, resulting from the interaction between natural ventilation, the photovoltaic modules and other insulating features of the system.
- ✓ **HIGH QUALITY, “MADE IN ITALY” TECHNOLOGY:** the system provides versatility, excellent performance, durability and reliability.
- ✓ **SOLAR ENERGY:** the inclusion of Micron photovoltaic modules allows the production of electricity from the sun, which is an infinite source of energy.

SUNWALL FOR ENERGY SAVING AND ENVIRONMENTAL SUSTAINABILITY OF YOUR BUILDING

SunWall photovoltaic facade can be part of a combined system consisting of photovoltaic panels and Alucobond type sheets, ensuring the maximum versatility and modularity from an architectural point of view.



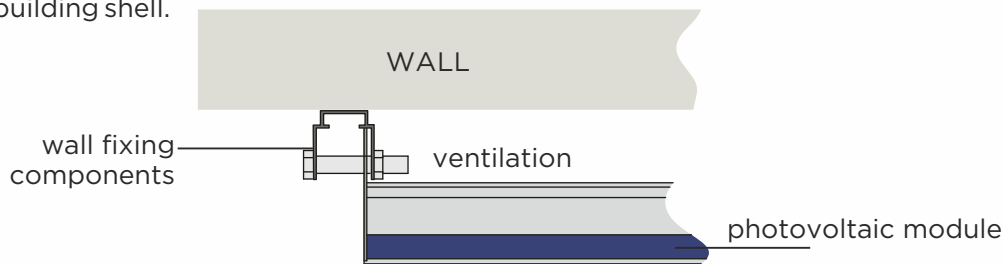
Although **SunWall** is the technological solution which is most suitable for the construction of new buildings, it may similarly be used to upgrade the energy efficiency of existing buildings, allowing the optimization of heat flows, in hot and cold climates.

IT IS IMPORTANT TO KNOW THAT

SPECIAL MODULES FOR FACADES


The special photovoltaic modules replace the exterior of the facade, becoming an integral part of it. From a functional point of view the special photovoltaic modules guarantee:

- ✓ waterproofing of the building structure;
- ✓ mechanical resistance comparable to the mechanical resistance of the replaced element;
- ✓ thermal resistance that does not compromise the thermal performance of the building shell.



- ✓ Low cost of implementation;
- ✓ Straightforward electrical wiring
Maximum efficiency also without optimal angles of incidence of solar radiation;
- ✓ Easy maintenance and cleaning of the entire **SunWall** system.

PHOTOVOLTAIC HIGH QUALITY PANELS GUARANTEE

SunWall uses Micron photovoltaic panels  by Cappello Alluminio
with **“Made in Italy”** certified guarantee.



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