



Global solutions powered by nature



The power to change lives

Access to clean drinking water... homes and workplaces that can be kept at comfortable temperatures... basic human needs that enable individuals and communities to survive and thrive. Meeting these needs is a daily struggle in many parts of the world. Solar power provides a viable solution to these issues – without worsening the climatic conditions that are at the root of the problem.

Climate change is responsible for some of the greatest challenges facing humanity today. But the traditional solutions used to combat issues such as water shortages and air cooling rely heavily on fuel or electricity, causing more CO₂ emissions and, in turn, more global warming.

In some of the most remote and deprived areas of the world, there is simply no access to reliable sources of energy needed to power conventional equipment.

But there is a bright spot on the horizon. At SwissINSO, working in collaboration with a number of technology partners, we have developed sustainable and innovative solar energy-based solutions that operate with minimal infrastructure and running costs.

4 billion

The number of people worldwide whose daily living conditions could be improved by 2030 using solar energy.

The power to integrate

SwissINSO offers two unique turnkey solutions, fully powered by

KRYSTALL™  SWISS
solar water purification INSO

Water purification system

SwissINSO has developed a self-contained fully solar powered transportable water purification unit with low operational and maintenance costs. The unit uses a patented low energy reverse osmosis membrane filtration system and highly efficient photovoltaic solar panels to produce a very high daily output of clean, purified water.

Key benefits

- Capable of turning 100m³ of brackish/contaminated water or 50m³ of salt water per day into high quality drinking water that meets international (WHO) standards
- Fully solar-powered and autonomous, so can be used in remote areas with no access to conventional energy sources
- Delivered in two standard-sized 40ft containers, which are easily transportable by air, sea or road
- Full turnkey solution with complete solar structure
- Top Swiss quality integrated solution using best in class components

KLYMAA™  SWISS
solar thermal control INSO

Air cooling/heating system

SwissINSO provides a unique, environment-friendly air cooling/heating solution using revolutionary coloured glazed cladding thermal panels – a proprietary technology developed with the Ecole Polytechnique Fédérale de Lausanne (EPFL).

These thermal solar panels constitute the opaque coloured spandrel panels of a curtain wall to form a full or partial solar envelope around the building, capturing maximum heat per square metre of space available.

The panels are designed to be a creative feature of the building, offering new environment-friendly perspectives for architects and engineers alike.



The power of technology

solar energy.

While the values at the heart of SwissINSO are humanitarian, social and environmental, the driving force behind our work is technology applied to innovative solar solutions. Our objective is to bring relief to people in need across the world by providing solutions that improve living conditions while protecting the environment – an objective made possible by the partnerships we have built with technological experts in the fields of solar energy, water purification and air-cooling.

Key benefits

- Maximum use of the building envelope to collect energy for air cooling/heating, using only solar power
- Offers significant energy savings and reduced CO₂ emissions
- Unique architectural solution that opens up new design and creative options for glazed buildings
- Panels are opaque to the human eye but transparent to sunlight
- Extremely cost-effective solution with rapid ROI

Based in Lausanne, Switzerland, SwissINSO was founded in 2006. Our mission is to provide high quality green turnkey solutions that deliver immediate benefits for end-consumers while providing value for our customers and shareholders.

By signing exclusive technology agreements with key partners – who have each pioneered technological advances in their fields of expertise – we are able to harness their knowledge and bring viable sustainable solutions to people, communities and governments around the world.

Our technology partnerships:

Membran Filtrations Technik GmbH (MFT)

Through our manufacturing and technical cooperation agreement with MFT, we have exclusive rights to MFT's patented membrane filtration technology for solar applications.

Solar Energy and Building Physics Laboratory (LESO-PB) of the Ecole Polytechnique Fédérale de Lausanne (EPFL)

SwissINSO has signed a technology transfer and research agreement with EPFL, covering its revolutionary process to colour-coat glazed solar panels. This agreement includes all intellectual property concerning the vacuum magnetron sputtering coating of glazing for solar collectors.



The power of the sun

Renewable energy... day after day. The source of light, warmth, food and ultimately life, the sun has been an object of fascination – and even worship – since time began. The idea of harnessing its power has intrigued mankind for centuries. But in today's challenging global environmental context, this is more than a desire: it is a need. And with new technology, it has become a reality.

Two of the most challenging issues faced by people around the world today are access to clean water and the effects of global warming caused by increasing CO₂ emissions.

While fossil fuels are being depleted, the earth has one source of energy that will never run out. An infinite source of energy that renews itself day in, day out, the sun offers a viable and sustainable solution to some of the most pressing and challenging environmental and demographic issues.

The amount of energy the sun radiates to the earth every day is 10,000 times the world's entire energy needs for a year. Capturing just 1% of this power would satisfy the whole world's annual energy requirements.

1%

Capturing this proportion of the sun's daily power would satisfy the world's energy needs for an entire year.

There are two major ways of capturing the sun's energy: photovoltaic panels which are designed to generate electricity, and thermal collectors which are used to generate heat that can then be turned into other forms of energy. SwissINSO has pioneered the integration of these new technologies into creative applications bringing water purifying and air-cooling/heating solutions.



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