



ennos

**Turns sunrays
into savings**

Our vision is a world where everyone has access to water to drink, to nourish crops and to wash their hands. ennos aims to make its award-winning sunlight pump widely accessible in regions of the world where water is lacking, but sunshine, a free source of power, is available in abundance.

About ennos



“All of us at ennos are passionate about bringing the most innovative solar technologies to farmers and communities whose lives can be drastically changed with easier, more reliable access to water. This is what motivates us every day.”

Dr. Andrea Vezzini, ennos Chairman

ennos has more than 12 years of experience in designing, developing and installing efficient solar-powered pumping systems. Since 2010, we have focused on producing our own solar-powered water pumps, which are specifically designed for irrigation and drinking water supply in off-grid areas.

Making an impact

Two outcomes inspire us in the development of the sunlight pump: improving living situations and advancing opportunities to use renewable energy. By introducing farmers and communities to the sunlight pump and teaching them how to use it to meet their needs, we can make a positive long-term impact on their lives – an impact with an incredible ripple effect.

Every kind of specialist

Led by Dr. Andrea Vezzini, the multidisciplinary ennos team is made up of individuals who think outside of the box to overcome the challenges that communities in developing countries face when it comes to access to water. From ideation to development and training, our team includes a specialist of every kind to help users tap into the potential of the sunlight pump.

“After I made the switch from a diesel pump to the sunlight pump, I began saving money because I no longer had to pay for fuel or costly maintenance work. The sunlight pump is automated and so I can spend my time doing other more important things.”

Farmer A., Tanzania
sunlight pump user since 2018



Facts and figures

1:1



support

Even before a sunlight pump is purchased, our on-site partners visit the potential customer to show them how the product will work. Later, one of their technicians will install the sunlight pump for them and will always be available if they have questions or need support.

0 kg

of CO₂



A diesel water pump emits 616 kg of CO₂ every year. A sunlight pump emits 0 kg of CO₂ because it is completely solar-powered. With the purchase of a sunlight pump, an individual or community can drastically reduce their carbon emissions.

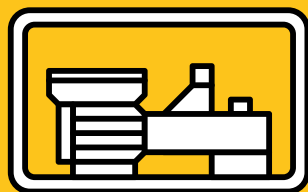


3,798

mio. liters/year

Combining the average output of all the sunlight pumps in use as of Q3 2019 results in nearly 4 billion liters of pumped water every year.

1



sunlight pump for 1 community

One sunlight pump can supply water to 22 households, or about 110 people, every day. According to the World Health Organization, between 50 to 100 liters of water are needed per person per day to ensure their most basic requirements are met.

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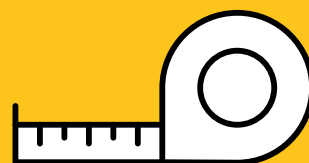
countries



The sunlight pump is available in more than 15 countries in East and West Africa, Asia and Latin America.

2000

meters



To irrigate one acre of tomato plants, you need approximately 15 000 liters of water – or the equivalent of 50 bathtubs. With the sunlight pump, these thousands of liters can easily be pumped to the crop fields from a water source up to two kilometers away.



From glaciers to deserts

In our DNA

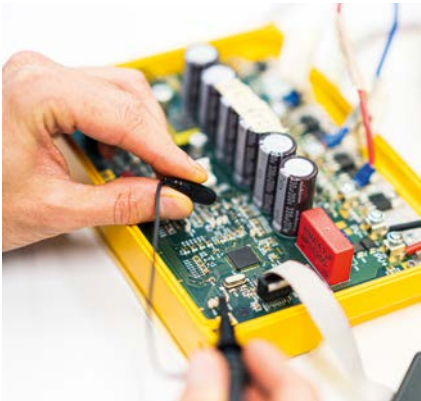
Though we see them every day, the Swiss Alps and Jura mountains are an eternal source of inspiration and wonder. The snow-capped tips remind us that what we have is unique, and we let these breathtaking views drive our mission of giving communities and smallholder farmers in other parts of the world continuous access to water. With this in mind, we have developed a robust solar-powered water pump that offers lasting quality. This Swiss quality is the result of our specific expertise and real-world perspectives that we have gathered from firsthand experiences and insight from individuals who depend on the sunlight pump.

Lasting quality

True Swissness is synonymous with deeply rooted values and a tradition of excellence. Developed in Biel, Switzerland, a region that is well-known for its technical and industrial innovation, the sunlight pump has been designed for reliable long-term use. With their high-quality construction and functionality, ennos' products are worthy of their "designed in Switzerland" designation.

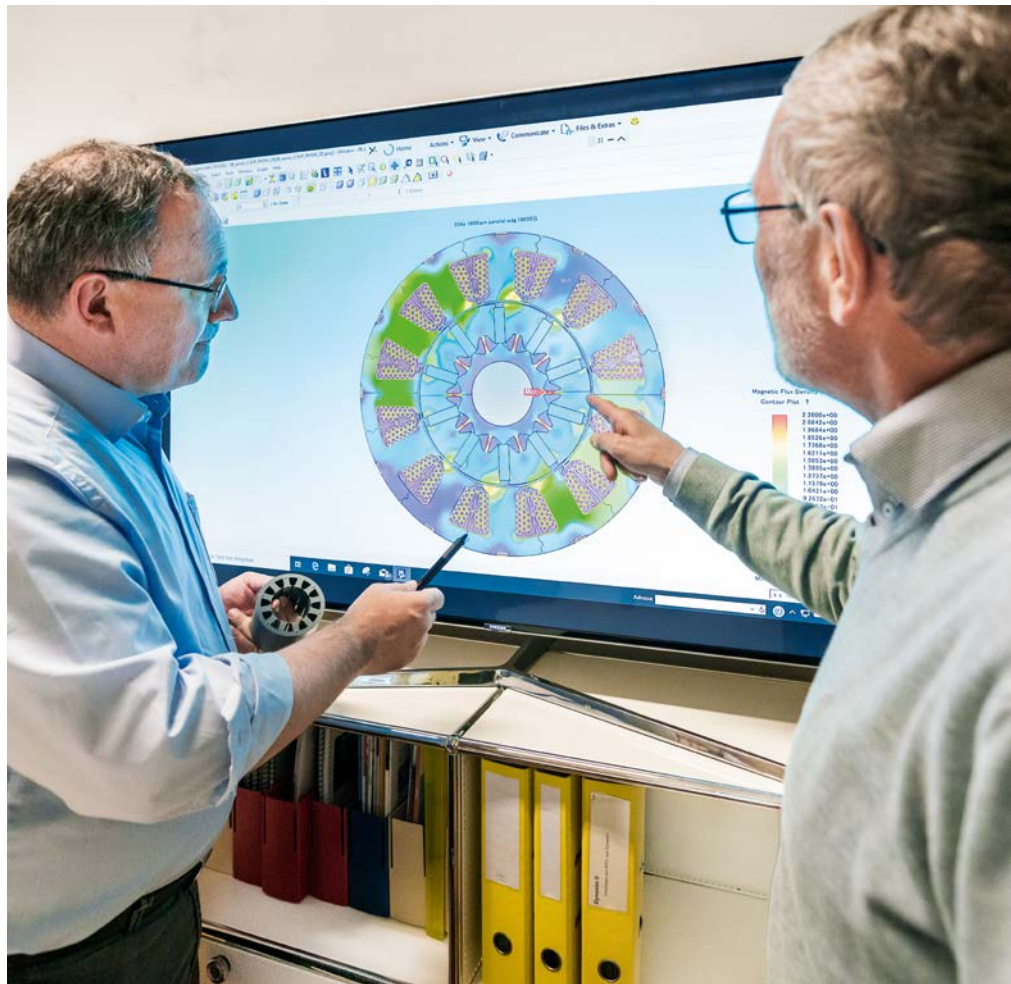
Innovative Swiss technology

Based at the Bern University of Applied Science's engineering campus in Biel, ennos developed the sunlight pump in a state-of-the-art facility with input from renewable energy and agriculture professionals.



Ongoing collaborations

Our research and development team is in close contact with the farmers and communities that use the sunlight pump in Africa, Latin America and South Asia. This teamwork is a key element in ensuring the usability of ennos' products. Although our lab is in Switzerland, feedback from our partners and regular site visits allow us to develop the sunlight pump in a way that truly benefits the individuals who make it a part of their business and everyday life.





Pump head

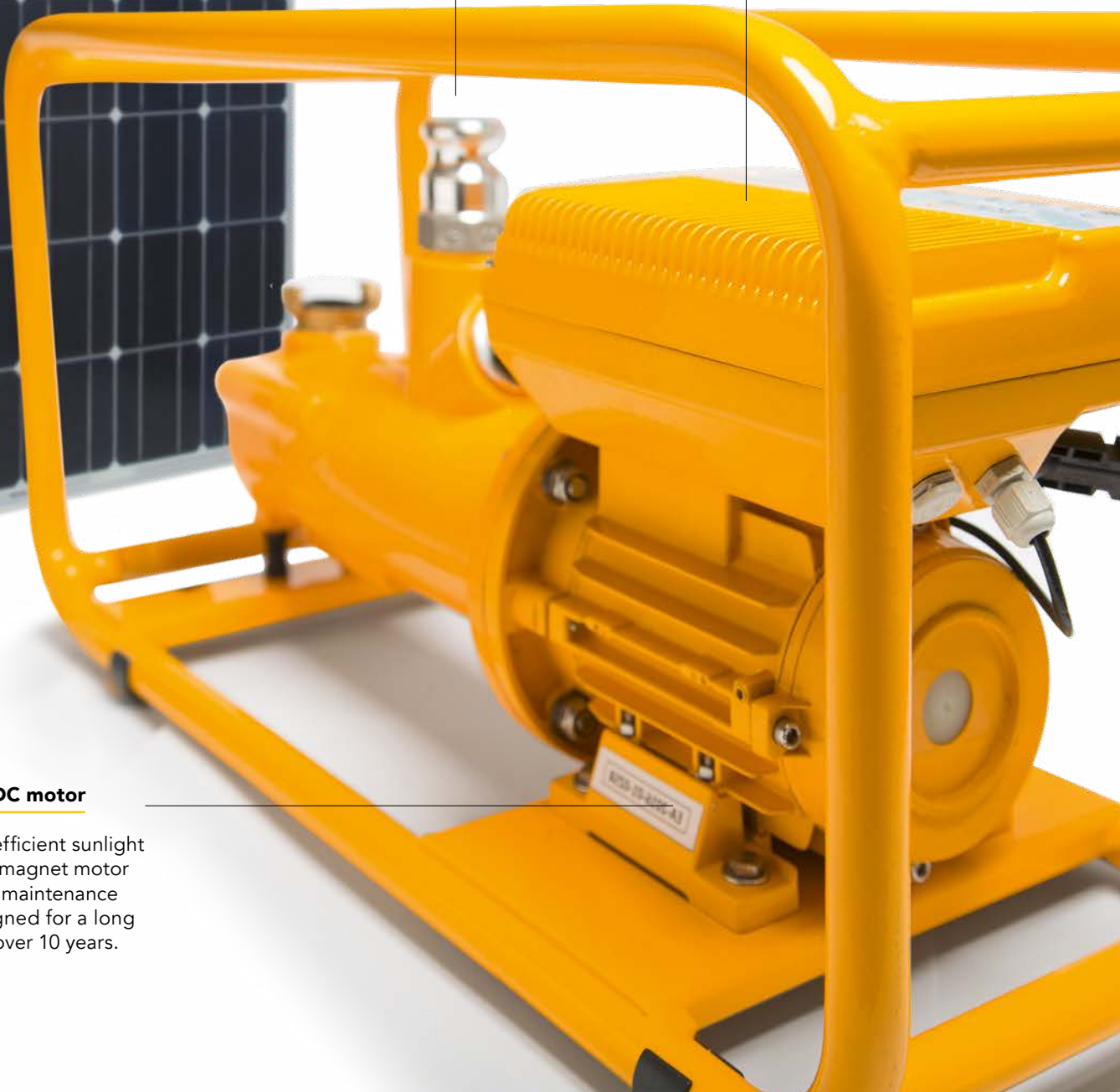
The sunlight pump is based on a helical rotor pump end. This is the most robust pump head technology available and also allows the pumping of dirty water.

Controller

The sunlight pump's controller is its key feature and distinguishes it from its competitors. The controller is fully integrated on top of the motor and pump unit, therefore avoiding any problems with faulty connections. Combined flow and pressure sensors detect dry run, and the powerful processor enables additional functions such as Bluetooth connection and cloud services.

Brushless DC motor

The highly efficient sunlight permanent magnet motor requires no maintenance and is designed for a long lifespan of over 10 years.



Harnessing the **power** of the sun

ennos solves the problem of water inaccessibility by offering high-quality, cost-effective, user-friendly solar-powered water pumps. We strive to make the sunlight pump the best quality, best serviced and most adaptable and accessible solar water pump in off-grid areas worldwide.



Key benefits

- **Built for surface use**
- **Modular or all-in-one solution**
- **Portable**
- **Mobile app and Bluetooth connection to Android smartphones**
- **Practically no wearing parts**
- **Multiple configuration options**
- **High water output**
- **Excellent after-sales support**
- **Lifespan of 10+ years**



On-site and online support

Behind every sunlight pump is a dedicated support team ready to help partners become on-site experts so they can show customers how to maximize the potential of their ennos product.



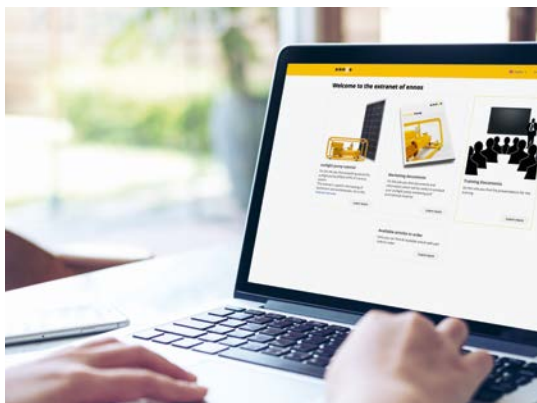
Premium support

As a partner, you can benefit from technical training, which ensures that you can supply your customers with high quality installations and excellent after-sales services.



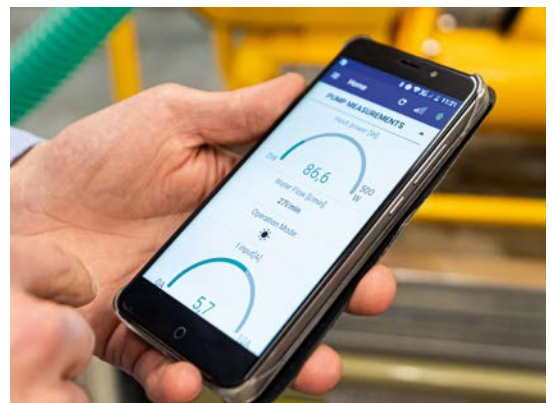
Sales promotion

You can use any of the sales and marketing material created by ennos to attract new customers with social media, case studies and brochures.



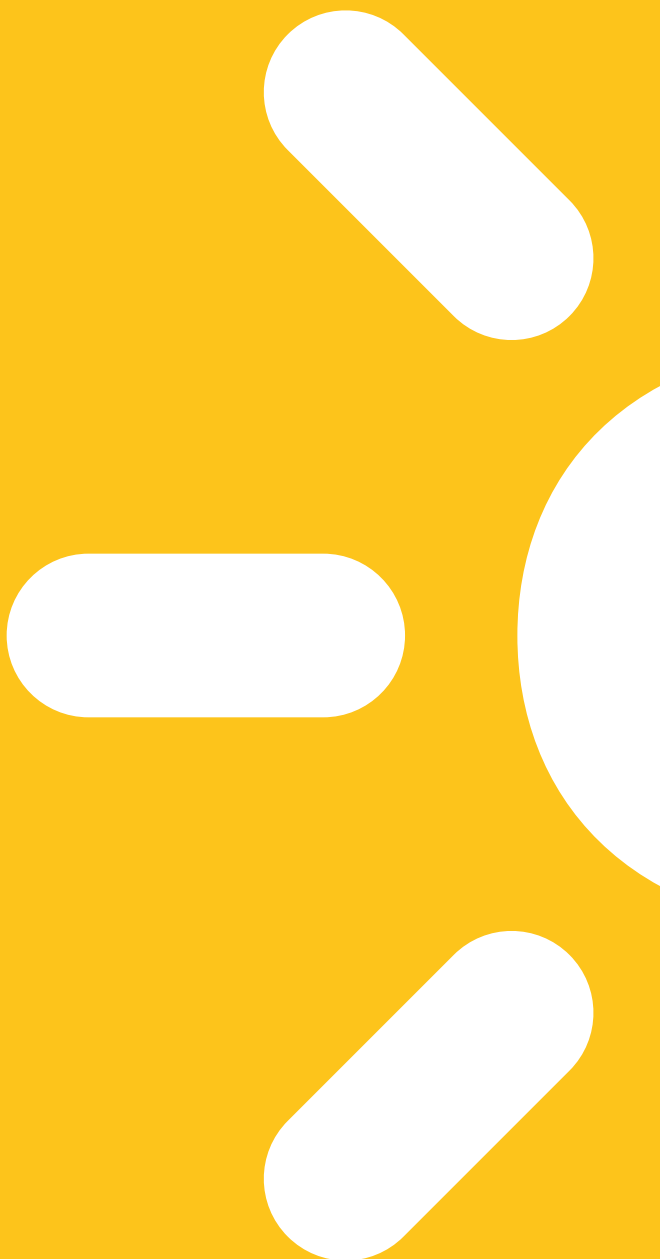
Online tools

You will have access to a large library of technical tutorial videos and "how to" documents. The online configurator allows you to design and visualize a sunlight pump installation on a case-by-case basis.



Smartphone application

With the ennos Android application, you can monitor and track the sunlight pumps you have installed. For the local technician, this is an important tool to diagnose problems and offer targeted solutions remotely or on-site.



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