



About ennos ag

Ennos comes from the University of Applied Sciences in Biel, Switzerland, where the solar pump "sunlight pump" was developed.

The pumps are then manufactured in India with our partner "Jain Irrigation" to make them affordable.

We are constantly improving our solar pumping technologies to make them more and more suitable for farmers.



A worldwide network

Our various distributors (NGOs and companies in the agricultural/solar/hydro sector) act as a link with users around the world.



sunlight pump connectées à l'application ennos (Android)

Essential elements of the **sunlight pump**

The **sunlight pump:**
a surface solar pump
with a compact
quality design

Motor

Highly efficient,
maintenance-free
brushless motor

Electronic controller

MPPT, stop-start, user
interfaces, connection to
the application

Pump head

Progressive cavity pump
(high pressure) and
centrifugal (high flow)



Technical specifications (0.5 HP)

Maximum Power: 500W (50V*10A)

Maximum Daily Water Flow (with 400W): 25.000 liters per day

Maximum Head: 60 meters (2-years warranty up to 40 m)

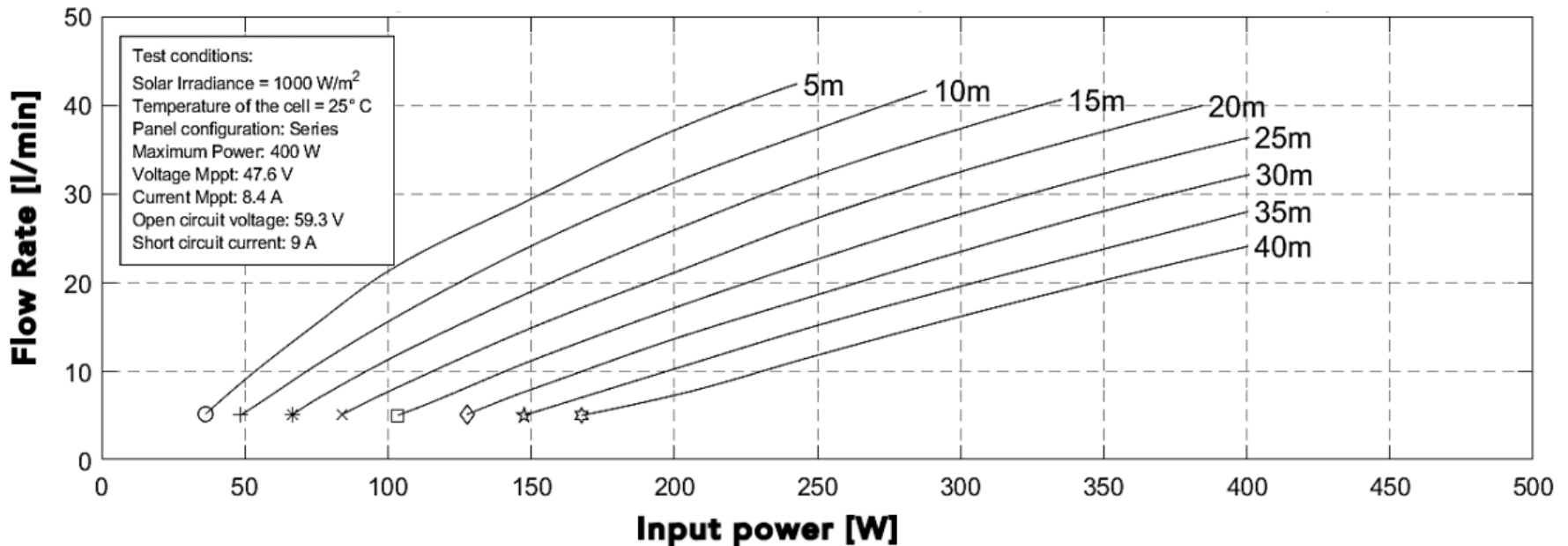
Pumping System: Progressive Cavity Pump

Daily Operating Hours (with 400W):

- when it's sunny: 11.1 hours
- partly cloudy: 9.2 hours
- completely cloudy: 6.6 hours



sunlight pump performance chart



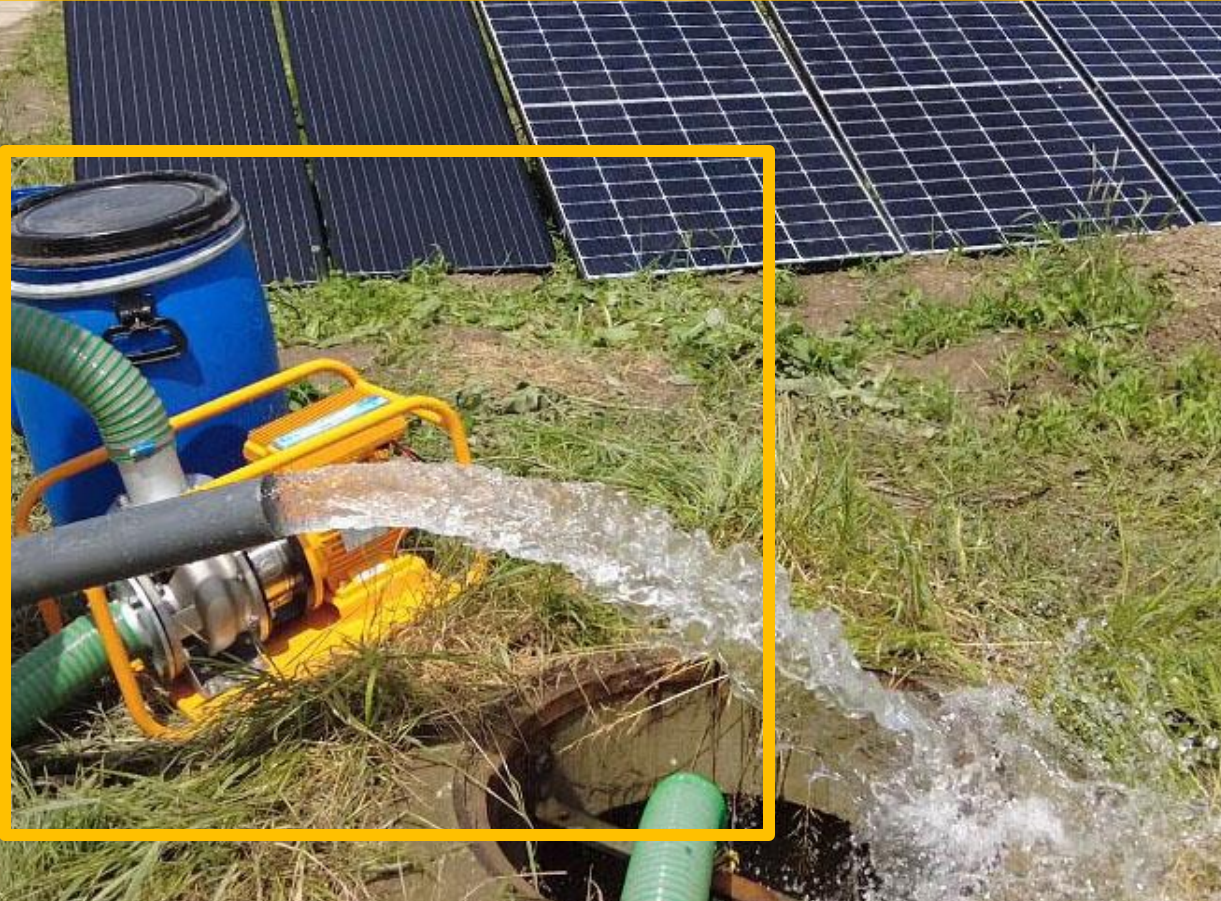
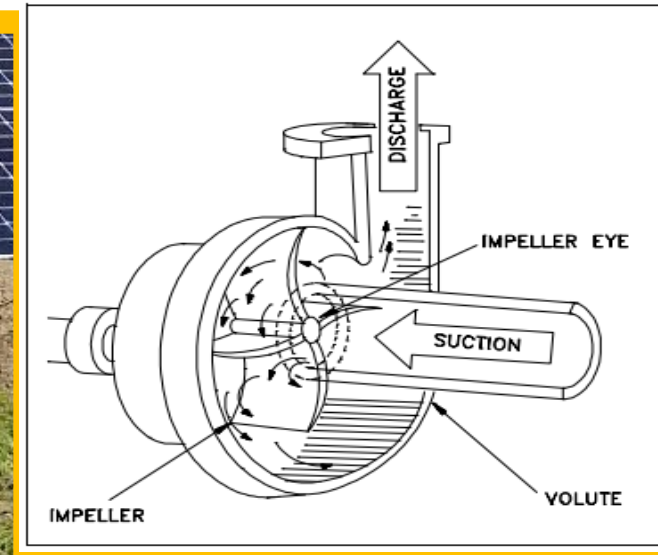
Technical specifications (2 HP)

Maximum Power: 2000W (100V*20A)

Maximum Daily Water Flow: 210.000 liters per day
(520 liters per minute)

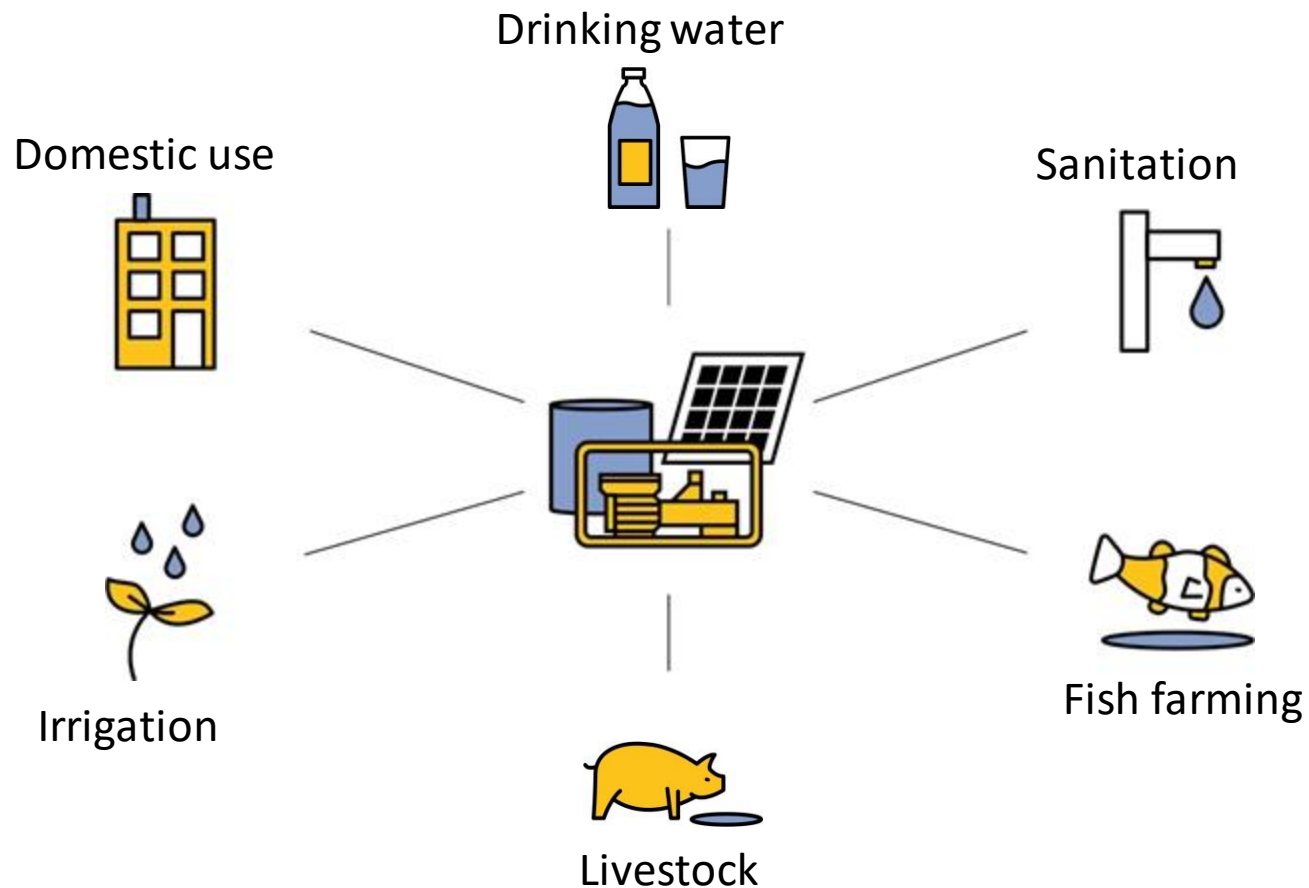
Maximum Head: 28 meters

Pumping System: Centrifugal



Case studies

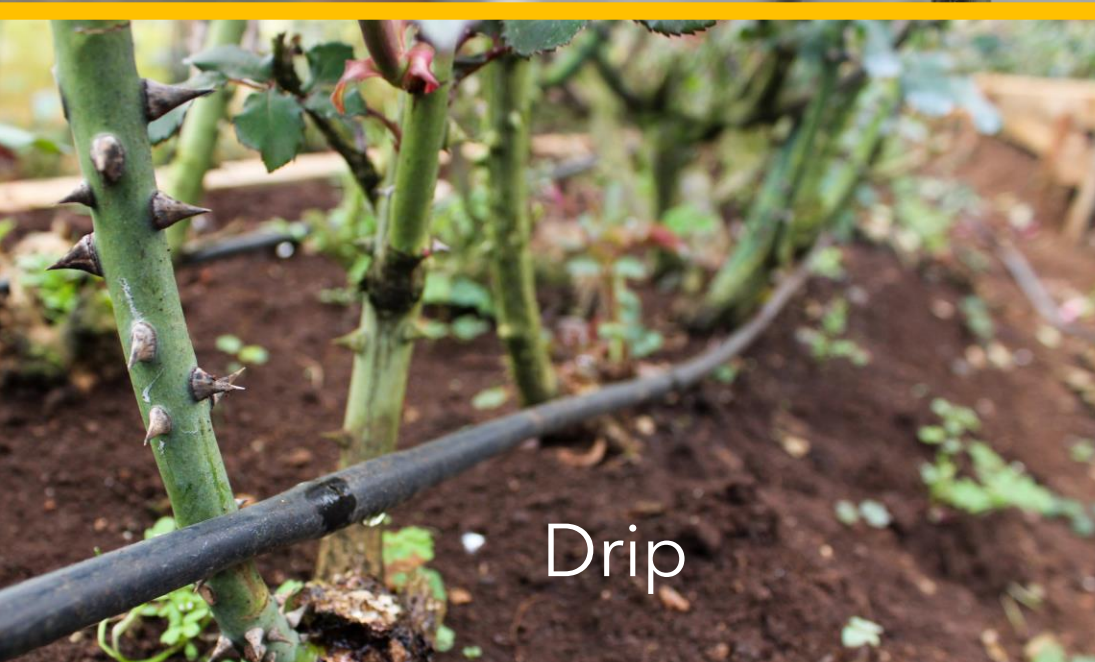
Discover what is possible





Sprinklers

Direct
irrigation



Drip



Hydroponics



Water supply for **livestock** troughs :
Up to **7 km** from the water source



Water oxygenation for fish farming :
In combination with vegetable growing (**fertilization**)



Pumping to a reservoir at the top of the farm :
Then **irrigate by gravity**





Batteries or
tank ?

Advantages of the tank :

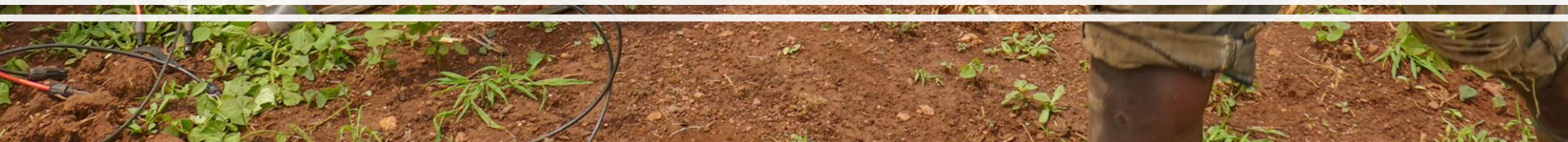
1. Cheaper
2. More sustainability
3. They are not stolen

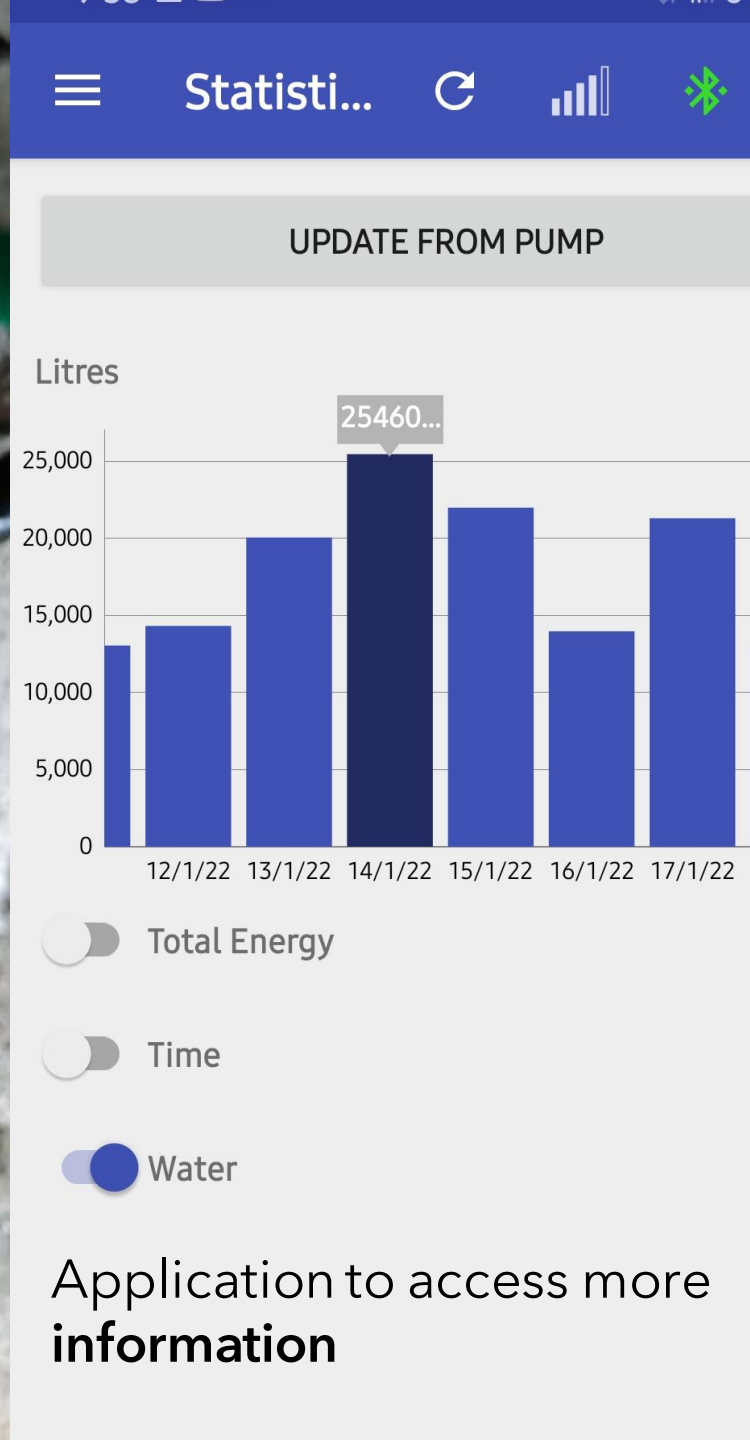
0.5 HP sunlight pump :
Quick-release couplings for **easy** pump installation and removal





0.5 HP sunlight pump :
Lightweight (14 kg) for **transport** where needed







Mobile platform

Advantages of mobile design :

1. Use in different plots
2. Share with neighbours
3. Keep safe at night

Safe construction

Advantages of fixed design :

1. More day/night security
2. Automatic operation
3. Only one installation





Suction limit : 7 meters at sea level (6m at 1000m)
In a deep well, **lower** the pump



Water can be pumped from **small canals** or **ivers** :
The foot valve must not touch the bottom



Comparison with Motopump (gasoline-diesel)

Up to \$2,000 per year in
savings (fuel + oil +
maintenance).

The more you use the
sunlight pump, the
faster it pays for itself!

The **physical** burden
of irrigation work
is also reduced.





@sunlightpumpennos



@sunlightpump



@sunlightpump



@sunlightpump



@ennosag

More information
online !

Website :
www.ennos.ch

