

About Henrik Johansson

- **Founder and CEO of Spowdi AB**
- **Inventor of Spowdi water distribution system**

Henrik Johansson, from Uppsala Sweden, has a financial and marketing background and has been working within sales, marketing and distribution in several industries for over 25 years. After 10 years within IT Henrik changed focus and founded Spowdi AB.

Spowdi AB is a result of a 5 year long R&D project developing a low cost and high energy efficient solar powered water distribution system for small hold farmers.

Henrik has a broad and deep experience and knowledge of international projects and working with people representing many different cultures.

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INVENTED FOR A GREENER TOMORROW

About Spowdi

Spowdi Pump System has been designed to secure sustainable water management.

Usually, focus when evaluating water pumps is most often based on performance, such as:

- Liter per minute
- Pump head

However, we at Spowdi didn't design a pump based on these criteria's.

Our focus has been to design a solar powered water distribution system to help small hold farmers to a better harvest and higher yield without damaging the environment. Spowdi pump system delivers the right volume of water and does so with extremely low power consumption.

Right volume of water:

Groundwater level is going down due to poor water management. Farmers are using oversized pumps and draw more water than needed when irrigating their fields.

This is not hard to understand. Farmers using diesel pumps doesn't want to operate it more than absolutely necessary since the cost of operation (diesel) is high. Therefore a pump that is capable to produce a lot of water in a short time frame, is what he prefers.

Taking out a lot of water in a short time frame is the worst thing to do:

- First: The water in the well will not be able to recover before it is used next time – water table drops
- Secondly: The land will be flooded. By adding a lot of water to the land in a short time frame means most of the water will go to waist - as much of 80 % will not reach the crops, it evaporates

For example in India there are initiatives to replace diesel pumps to electrical pumps:

That is of course a good thing. However, it will not help solving the water management problems. Since the electricity for operating an electrical pump is for free, there is no reason for the farmers to switch to a pump of lower capacity. The electrical pump is sold on the same criteria as pumps always been sold, flow rate and head.

Free electricity doesn't mean any incentive to choose an energy efficient pump.

The only positive effect of switching to electrical pumps is that these pumps doesn't pollute the environment (if the electricity provided is from "green production").

Our mission is to provide a solution on the problems described above and we are now focusing on the Indian market. We believe in the

Seeing is believing...Is an expression that we have adopted. A way to produce high yields with no emissions sounds too good to be true. Therefore it needs to be shown. Demonstration farms will be an important tool to showcase best practice solutions for effective food production. We at Spowdi are setting up demonstration sites in Asia, Europe, US and south America. These sites will be open for anyone that would like to learn about and study future friendly food production.

It's time to challenge traditional and conservative way of thinking.