

## Case study

### Solar brings water to a school in Uganda

#### Mytiana, Uganda

One string inverter SMA Sunny Boy 3000

Sunny Island 3324

12 polycrystalline photovoltaic panels 230 Wp

4 x 12V batteries

## Project overview

- In early 2012 Photon Energy took part in a charitable initiative by supplying photovoltaic solar technology to a school in Mytiana, a small village in Uganda.
- The installation powers a water pump which supplies the school.
- The system donated by Photon Energy now helps provide access to other vital resources that are crucial for local people and operation of the school.



## Designed use of generated solar energy

- To power a water pump, which can fill a local water reservoir with 2000l within 8-10 hours using the sunlight

## Future plans

- It is planned to visit the site in early 2013 to provide system maintenance.

## Impact

- The children no longer have the burden of carrying the canisters.
- Until recently the water had to be carried by school children, who had to carry two 5-liter canisters uphill daily.
- The donated PV installation powers a water pump in the village located 450m away and 80m uphill from the local school.
- The installation also supplies electricity to a local guest house which generates additional funding for the school operation.

**Georg Hotar**, CEO of Photon Energy N.V.

*„It is a genuine pleasure to realize that we in Photon Energy have made a positive change in the lives Uganda and successfully tackled the challenge of water supply which the school children have been encountering every day. Not only has the solar power system brought electricity to this remote village in Uganda, but it has also enlightened the community with many happy smiles.“*

## About Photon Energy Foundation

- Photon Energy is driven by the belief that energy must be accessible, clean, safe and affordable for everyone.
- Therefore, Photon Energy Foundation has been established as a non-profit organisation aiming to facilitate electrification in off-grid communities with the use of applicable renewable energy solutions and to promote social improvement of safety and educational level in the community by enabling access to clean energy among low-income families.

## References

Click here to watch the video:

**Solar brings water to a school in Uganda**

