

Case Studies of Solar Pumping in the Philippines

By Mark Tomas
President
Sunelec Photovoltaic Solutions (PH)

May 19, 2015

This is not an ADB material. The views expressed in this document are the views of the author/s and/or their organizations and do not necessarily reflect the views or policies of the Asian Development Bank, or its Board of Governors, or the governments they represent. ADB does not guarantee the accuracy and/or completeness of the material's contents, and accepts no responsibility for any direct or indirect consequence of their use or reliance, whether wholly or partially. Please feel free to contact the authors directly should you have queries.

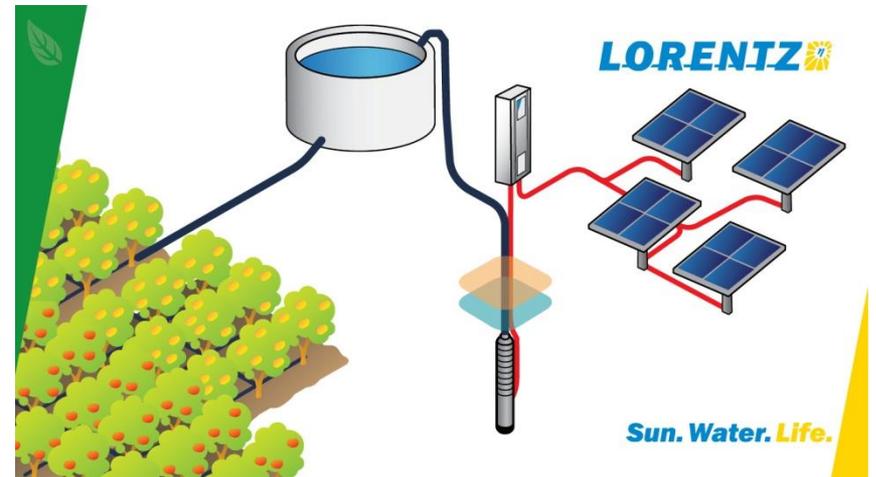


Topics

- What is Solar Pumping?
- Case Study: Solar Pump for Irrigation
- Video: Somalia experience
- Lorentz Solar Pumps

What is Solar Pumping?

- Pumping running on electricity from solar panels
- Simple system
 - Solar Panels
 - Solar Pump
 - Solar Controller
- Battery is optional
- More water in summer!



What is Solar Pumping?

- Advantages over diesel pumps, common in remote area
 - No maintenance
 - No fuel
 - No smoke
 - Fully automatic
 - Solar generator no moving parts



Case Study: Solar Pump for Irrigation

- Onion and corn farm, Barangay Magsaysay, Occidental Mindoro, PH 2014
- Farm depends on NIA water supply, which depends on dam level
- Dam level reached too low to supply anything



Case Study: Solar Pump for Irrigation

- LGU decided to get water from deepwell and used solar pump
- Output was 60m³ for 3 hectares of farm
- Free from fossil fuels, no harmful fumes, minimal to no maintenance



Video: Somalia Experience



Lorentz Solar Pumps

- German company specializing in solar pump for 20+ years
- Widest range of solar pumps
- NASA backed output forecast
- Wireless solutions
- Used by humanitarian groups (ex. United Nations, CRS, HELP, etc.)

20 years of
LORENTZ 



LORENTZ 

 **SUNELEC**
Solar Products Distributor

Thank you!

info@sunelec.com.ph

