

### References by Sunnytek teckhnology in Sweden and abroad

#### \* Kenya Kimililli

Solar street lamps at main street operated by solar power. In operation or over 3 years with large success. Lithium battery and high efficiency leds give a very efficient design and good operation. LED have over 200 Lumen/W in light flux and power is from 2500 Lumen to 16500 Lumen Lamps have a very nice aluminium pole.



#### \* Solar plant in office in Basra Iraq

This system was installed 6 years ago in an area where 50C is a normal temperature. It use our unique high temperature solutions and Scandinavian solar panels. Panels are 800W and system operate with 3KW output at 230 volt.



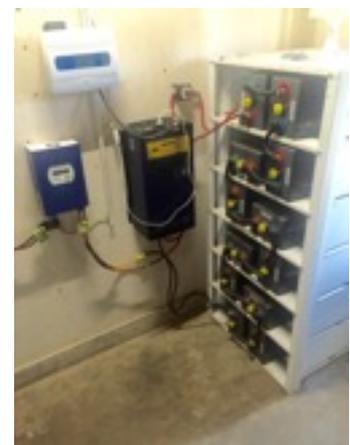
#### \* Solar led lamps Sri Lanka

This was the first solar led lamp with new Lithium Ion battery technology installed in the president palace area. Like time expectancy of lamp is 10 + years with zero maintenance. Operation is now over 7 years in 35C with salty wet atmosphere. No maintenance yet. Latest solar lamps have a new generation of leds that are the most efficient on market by 210 Lumen/W in light flux. Panels are now thin film to handle heat better and battery is rated 70 C in operation temperature. New controller have smart timers and dynamically adjustable output.



#### \* Gakwende handicap centre in Burundi

This system is installed 4 years ago and use solar panels to give power for 110 LED tubes L 600 mm. There are 2 identical systems + a smaller system in a medical health care centre. Panels have 1300W per unit and w have a 24KWH battery storage unit. Inverters are the new high temp model capable of 70C in operation temperature. Battery pack is OPZV lead technology made in Sweden. Same design is used by Ericson mobile in telecom systems in Africa.



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## References / Installations

### \* Health care centre Gakwende Burundi

This was done 2013 and is upgrading of old non working systems to modern standards. In Gakwende we changed to new led lamps in 20 lamps and this saved 50% of power compared to the broken old lamps. System has worked 100% of time with zero maintenance during 4 years.



### \* Parking lot Uppsala Sweden

In stalled solar based led lamps in a parking area at a church. In operation for one year with success. Here we have cold weather with - 15C and snow. In summer it is + 30C so temperature differences demands a lot. This system have large solar panels as winters are with very little sun in Sweden.



### \*Hybrid

wind and solar unit  
Ursvik Sweden  
This is a solar and wind based system with Lithium based storage battery for a

small park. Wind generator is WAVT design and panels are 600 W. In operation during 6 years including hard winters in Stockholm area in Sweden

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### \*Repair and upgrading of old solar water heater in Kiremba Burundi

This was repaired after broken for 10 years in heat exchangers. We installed in cooperation with technical school Kiremba new stainless steel heat exchangers and now all works OK. This system save a lot of wood in the kitchen for 700 students. This system save about 2 trucks of wood per week for food in the kitchen.



**Dormitory system in school Kenya** 2014 we installed about 25KW solar panels and a battery system of almost 100KWH in Kericho in Kenya. System handle a dormitory of 700 students with 100% of energy needs. We use 250 W solar panels combined with the 931 AH OPZV battery by North Star. Photo show 1 set up of panels of 12.5 KW and battery back up system. Inverters are 3 Phase 2X12 KW output with MPPT chargers.

### Hot water system Burundi

2015 we installed 4 sets of solar hot water systems in Gakwende. Here we give hot water for all 80 students for hygiene and kitchen. Pumps are solar operated and tanks are 500 Liter in volume. These concentrator panels can give very hot water and steam if needed.

Savings of wood food in kitchen are dramatic. Hygiene gives better health for all children.

Panels are made in Sweden and delivery in cooperation with a church in Stockholm and donations.



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### Kiremba Burundi

2015 we installed a solar system with large back up and inverters at Hauge Bank in Kiremba in Burundi. This is the first installation with 1 KW new generation solar panels we will us win the future. Thin film panels are far better in most applications and they operate better in twilight and bad weather. Back up is 25 KWH and inverter is 6KW output.



**Kiremba Orphanage.** 2015 we installed hot water systems in 8 houses at an orphanage for baby This includes a larger system at then kitchen and smaller systems in each small house.

Here we save lots of wood as well as electricity. Old grid was very unreliable and often knocked out. Now all works far better. The tank at kitchen is 500 Liter and made in Sweden as well as panels. Each panel gives about 1.5 KW thermal power. Now we have installed 18 units of thermal systems in Burundi. 2016 we change to a new generation of thermal panels with lower costs and more rugged and robust design.



**Kiremba new church.** 2016 Sunnytek has delivered about 250 Led lamps and battery back up and inverters for new church in Kiremba. The 12000 seat church is the largest in Burundi. Led lamps saves about 50% of power compared to florescent lamps as alternatives. They do also operate from 90 to 260 Volt AC in input with constant output. Some of led lamps are high power lamps of 130W for scene and facade illumination.



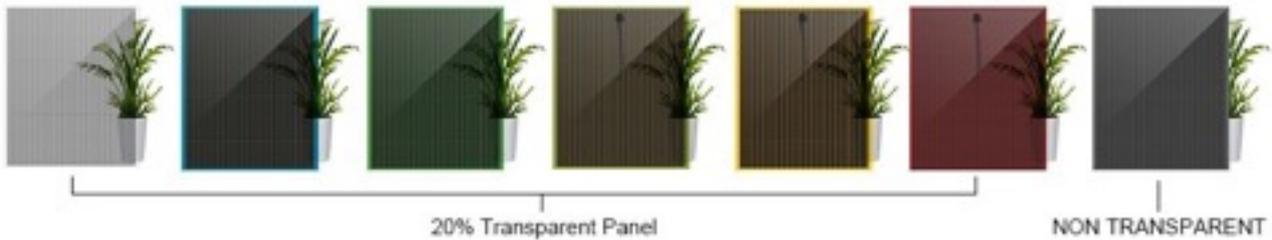
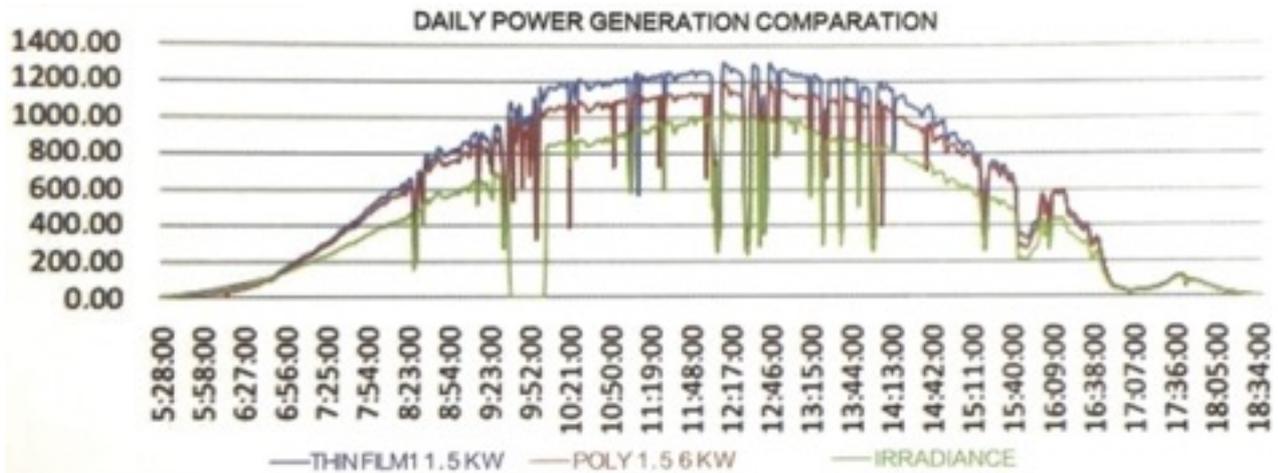
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## References in Africa and Asia and Scandinavia

Solar home systems Sweden. 2016 we deliver our first numbers of solar home systems in Sweden. Systems are between 3 and 8 KW and us the new generation of thin film panels with better performance that crystalline panels. Each panel is 130W and a cloudy day they give up to 30% more power that crystalline panels. Inverters are 5-8 KW 3 phase units with web interface.



Coloured thin film panels 2016 we start to sell the new coloured thin film panels and semi transparent panels that can be used as windows. Light transmission is 20% so they looks like a sun shade film. They are very good for building integration BIPV solutions and price is reasonable



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