

**Clinic solar energy supply: a reality and an appeal for support.**

Two of Aki's original staff have had direct experience in Pakistan and elsewhere of running buildings on photovoltaic electricity. It provides unbroken clean energy without taking it from other grid users and has the capacity to run all of AKI's energy needs for Summer and Winter use while the clinic is open. The clinic is a day clinic which has had to close during the hottest month of the year as not even fans were available for the children, nor was computer data recording possible reliably. We know that mains electricity in Summer is with us for only a few hours in the day in Peshawar.

A graduate alternative energy design engineer who is a supporter of AKI, and what it stands for, has designed a system that will supply up to 10Kw per hour of electricity for use in the clinic for some storage or direct electrical use from the sunshine that lands on our roof. It is enough to run 2 or 3 air-conditioners and our fans, lighting and computers all day long without interruption. It then will supply the building guards with fans and lights for their night security work from battery storage. All this electricity is free for 25 years!

The system is demountable from the building for when we move to bigger permanent premises of our own and will re-install there with little cost for installation. It is extendable if we need more.

How can you help?

Part of the system will be installed very soon with the help of an interest free open loan. Paying back that loan in donations would be very constructive and would not reduce therapy service or care to the children in any way. You could specify even if you want your donation to help repay that loan or go toward the system extension.

Here are the costs [estimated] below:-

EQUIPMENT	UNIT PRICE	QUANTITY	TOTAL
INVERTER	400,000Rs.	1	400,000/-
SOLAR P.V MODULE	70Rs./WATT	34	666,400/-
BATTERY	32,000Rs. each	4	128,000/-
INSTALLATION	TRANSPORATION, P.V FRAMES, DC WIRE, AC WIRE, PV CONNECTORS, BATTERY CONNECTORS, JUNCTION BOX		179,160/-
TOTAL COST initial sytem	<b>1,373,560/-</b>		
	UNIT PRICE	QUANTITY	TOTAL
EQUIPMENT			
INVERTER	400,000Rs.	1	400,000/-
SOLAR P.V MODULE	70Rs/WATT	50	980,000/-
BATTERY	32,000RS. each	8	256,000/-
INSTALLATION	TRANSPORATION, P.V FRAMES, DC WIRE, AC WIRE, PV CONNECTORS, BATTERY CONNECTORS, JUNCTION BOX		245,400/-
TOTAL COST extended system	<b>2,009,400Rs.</b>		

We would invite you to pay for a 280 watt panel at 19,600Rs. or a battery at 32,000Rs. - or indeed any part. Your donation will serve the comfort and energy needs of the children and clinic workers for 25 years into the future. We should have had this ten years ago when we started!!

---