

Project Name: Solar Power for Student Dormitory

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Location: student dormitory at Bueng Klueng village, Umphang district, Tak province

Project Information:

The dormitory is located in Bueng Klueng village, southwest of Umphang along the Burmese border, and is home to around 30 Karen children of all ages whose families are unable to support their education at home. These children stay at the dorm where they are housed, fed and supported in many other ways. All of the children attend the local Thai school. The dorm has been going since 1998. The solar system will power a computer, satellite internet, and lights. Staff will be trained in the installation, operation and maintenance of the solar system, alongside the medics from the solar clinic built in the same region at the same time.

This project builds on experience from a series of successful solar electrification projects of various sizes implemented since 2004 by Thai partner BGET. BGET has been helping and training refugees and internally displaced people from the Burma border area from the start, using various forms of renewable energy like solar, micro hydro-electric, and biogas.

Beneficiaries: About 30 students at the dorm will be direct beneficiaries, along with their teachers and staff.

Implementation Period: Second half of 2009

Installation: October – December 2009

Total Budget as follows:

	Dorm Project	
	Qty.	Total Cost
EQUIPMENT		
Solar panel: 130 watts	6	\$4,320
Charge controller	3	\$750
Battery	9	\$1,350
Inverter	2	\$600
Lights	10	\$500
Wires and Others	2	\$1,200
Spare Parts: Panels	1	\$720
Controller	1	\$250
Batteries	2	\$300
Inverters	1	\$300
Contingency at 10%		\$1,029
Sub-Total		\$11,319
DESIGN/MANAGEMENT/TRAINING /TRANSPORTATION		
Training cost		\$2,000
Transportation/FBR cost		\$1,800
BGET cost		\$3,000
GE cost		\$2,750
Sub-total		\$9,550
Total		\$20,869