

Solar Water Pumps for Rural Villages in India

Village Solar Well Water Pumps

C TRADE will install small **Solar Well Water Pumps** which are highly efficient, low voltage, DC powered, diaphragm type positive displacement pumps designed specifically for water delivery in remote locations. They operate on 30 volts using 80 Watt solar panels. The system will pump on average about 700 gallons per day at 100 feet of TDH.

C TRADE designed system is especially suitable for rural applications in India, where the cost of electricity is very high and not reliable. These pump systems are reliable for at least 5 years of operation. Imagine replacing all electric driven rural pumps in India, requiring no more electric power for water.

The advantage of this solar powered water pump is that it will pump water at the rate of about 2 gallons per minute for about 8 hours during the day when the sun is shining on the solar panels and pump water into an above ground water storage tank. These pumps can be installed below the water level in a pond, river or cistern, or installed by hand into a ground water well. They can be used to fill an open tank or in pressurized water delivery systems. Simplicity is the key feature of these pumps. They are easy to install, require very little maintenance and are repairable.

C TRADE will install the systems, in villages in India with the collaboration of the Karnataka Renewable Energy Development. The cost of the complete system is about \$2,000 (Rs.80,000) each. C TRADE in partnership with Secon will assemble and later manufacture the solar water pumps at its facilities in Bangalore, India.



Complete Solar Panels, Pump Kit and Water Pump

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C TRADE International Carbon Sequestration & Renewable Energy Experience

C TRADE Project	Funding	Location	Year
• Turbocharger installation in Fleet Buses	IUEP	Taiwan/China	2006
• Biogas to Energy from chicken and pig farm	CTRADE	Philippines	2006
• Hybrid wind-diesel for Rural electrification	GEF	Eritrea	2005
• Hybrid Wind-Solar for Rural Electrification	USAEP	Philippines	2004
• Hybrid Wind-Solar for Rural Electrification	USAEP	Sri Lanka	2003
• 5 MW landfill methane gas to energy	TENAGA	Malaysia	2002
• Carbon Sequestration by Sustainable Forestry	IUEP	Argentina	2002
• Microturbine Technology	USAID	Maldives/India	2001
• Forestry Carbon Sequestration	IUEP	Paraguay	2000

What is C TRADE?

C TRADE is an international developer of renewable energy projects using solar, wind, biogas and other clean technologies to displace the use of fossil fuels, and develop carbon sequestration credits.

C TRADE helps fund and develop projects in exchange for GHG emission reductions or carbon sequestration credits.

C TRADE facilitates the registration and certification of carbon sequestration credits called Certified Emission Reductions (CER), including design, monitoring, and verification.

Carbon credits would have no value for it to be traded or sold unless they are properly registered and certified.

C TRADE has extensive experience with development of carbon sequestration and renewable energy projects in Argentina, China, Eritrea, India, Indonesia, Malaysia, Maldives, Paraguay, Philippines, Sri Lanka, Jordan, Thailand, Taiwan and USA.