

# Mono provides safe drinking water to the Sesemi Museum

In 1831 the Danish Government purchased a plantation in the Akwapim range north of Accra, Ghana. The plantation was named Frederiksgave in honour of the Danish King Frederik VI. In 1850 the site was abandoned and the local people settled in the village of Djabing, around 500 m down the hill.

Until 2006, the closest safe drinking water source was a single hand pump -1.6 km further down the hill. Each day the 500 people in the village had to walk over 3 km to the pump and back in order to collect water.

In 2006, Frede Bosteen from DENG Limited in Accra, identified the site as suitable for a Mono Solar Powered Water Pump. The old hand pump was replaced with a 600 Watt tracking Sun-Sub pumping system sponsored by Danida. The water level in the borehole is 35 m below ground and the Sun-Sub pump was able to push the water an additional 50 m up the hill via a 1.6 km long pipe, into the village. The average annual water supply from the solar pump is approximately 7500 litres per day at a total pressure of 86 m.

The pump is used to fill a number of water tanks located around the village. Water is then gravity fed from the tanks to nearby water stands. The built in pressure cut-off feature of the Mono Sun-Sub system made the level control in these tanks very simple. Once all the tanks are full the pump automatically turns off to prevent wastage of the valuable water source.

In 2007 the National Museum of Denmark funded the restoration of the buildings at Frederiksgave. The site will become the Sesemi Museum and will contain many historic items from the original Danish plantation. This construction work was only possible because of the water supply available in the local village. An additional water tank has been installed at the site to provide water for the construction and later for the requirements of the Museum.

The solar powered water pump has helped to transform this small community in Ghana by providing safe drinking water throughout the village. They no longer have to carry heavy water containers up and down the hill. Construction of the new museum has provided employment in the village and more opportunities will become available when it opens at the end of this year.

For more information - please contact Mono Pumps at [global.solar@nov.com](mailto:global.solar@nov.com) or visit [www.monopumps.com](http://www.monopumps.com).



The 600W Tracking Array is mounted on a long pole to keep it out of reach.



The new water supply at the Sesemi Museum.



Children no longer have to rely on hand pumps for safe drinking water.

**Mono<sup>®</sup>** **NOV**

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