



School energy storage south sudan

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South Sudan faces a critical lack of clean water and reliable energy, and this scarcity impacts education and healthcare. With less than half the population accessing water, life expectancy is low, and infant mortality rates are high. Aptech has consulted with the South Sudan government and local NGOs to introduce a new project featuring an innovative Electrical Storage System (ESS) and Solar Water Pumping.

The pilot project aims to provide continuous power and water through community water kiosks. Solar energy installation ensures uninterrupted power for schools and hospitals. The solar-powered water pumping and backup system provide clean water all day. This benefits the whole community, including schools and hospitals. It also avoids the uncertain costs of diesel generators by selling water. The money from water sales will support maintenance and replacement costs.

When we began thinking about ways to offer assistance in South Sudan, the list was enormous. In fact, over-whelming. Where do you begin in a place that has only recently concluded a 20+ year civil war and then become the newest country in the world?

Early on, when we learned that--within the borders of the entire country of South Sudan--there is no power grid whatsoever, we were stopped dead in our tracks. No power grid in the entire country?

The reality was this: while South Sudan was a part of what was then known as Sudan, the government in Khartoum neglected--on purpose--to make any investments for infrastructure in the South. That included such things as a power grid.

As a result, today you either must have the funds to own a very expensive dieselpowered generator or you are stuck with a kerosene lamp. Take your pick. That's essentially it. And, diesel fuel in South Sudan exceeds \$7 US/gallon.



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