

GWl's Sustainable Village Water Systems Program seeks to improve health, wellness, and opportunity in rural Tanzania by installing solar powered wells to provide clean water in rural villages. In addition to providing water, these wells will also generate data—about their power generation, energy usage, water production, and more. GWl wants to ensure that that data is catalogued and stored in a way that makes it easy for researchers to examine trends and improve the services offered to villagers.

Your task is to design a system for importing, storing, and presenting that data. It must be made available through a web interface in two forms: a high-bandwidth version for use by researchers, project sponsors, and others with high-speed internet connections, and a low-bandwidth version for use in Tanzania, where internet coverage is spotty at best.

Here are some ideas of features that could be included in your design:

- Create an interactive map of well sites with linked data
- Allow for the capability of integrating village demographic data from other sources
- Create an interactive graphical interface for students/researchers to explore data online