

Innovative Solar-Powered Solutions for Agriculture

Solar power has been used in agriculture for some time now, typically on a small scale. But there is a lot of room for broader adoption to address challenges in providing power to agriculture in a sustainable manner. The technology for small-scale solar irrigation is well established but WorldWater & Solar Technologies Inc., has additionally the unique and proprietary technology to implement very large-scale projects driving irrigation motors and pumps up to 1,000 horsepower off-grid.

In pursuit of solutions to solar power and water, the Company has developed, working in conjunction with Princeton University scientists and engineers, certain enabling technologies and IP to meet the needs of the agriculture market. These patents collectively allow for smart management of power, water and irrigation systems for farms and agribusinesses. Our solutions are unique and proprietary in providing such features as;

- Proprietary and programmable variable frequency drives with the ability to directly power pumps up to 1000 horsepower, on or off - grid
- Control of pumping operations through speed and demand management to reduce energy and demand costs
- Operate totally off- grid or in conjunction with the grid
- Real-time intelligent water monitoring and irrigation control

Another challenge to wide-spread adoption of solar energy in agriculture is on business management. Therefore, we also focus on the business aspects of solar-powered agriculture. Our emphasis is on sustainable and environmentally friendly technology and development.

The initial focus of our efforts will be to provide large scale solar-powered irrigation to agribusinesses, as well as smaller systems to subsistence-level farmers, thus giving them an opportunity to overcome their dependence on sometimes unreliable rainfall and produce substantial crop yield increases.