



LOCATION:

ZADNA
Nile State, Sudan

PROFILE:

ZADNA oversees developing agricultural lands (supplying electricity, water, canals, center pivots) and selling them to farmers in Sudan.

ZADI 1 is a development with 100,000 hectares.

Crops including Alfalfa, Rohdes grass, sorgum, wheat and potato.

CHALLENGE:

Sudan aims to develop agriculture and drive the country's self-sufficiency, contributing more efficiently to overall economic balance.

ACTION:

Work with Valley® Irrigation to install 1,450 center pivots and train on all aspects of pivot irrigation

ADVANTAGES OF VALLEY INSIGHTS:

- Water optimization
- Increased yields
- Better crop quality
- Durability for sure performance in the heat of the season
- 24/7 observation in the fields

Massive Project Requires Vast Resources and Responsive Service

ZADNA needed a partner that could handle a huge irrigation project with difficult demands. How big? They required 1,450 center pivots to begin with. But that is not all. The project also required support to source financing for the project, installation of all the pivots, providing training to more than 600 technical staff in Sudan, ongoing service, and ready access to spare parts.

The project required the resources, experience, and service only possible through Valley Irrigation.

The client chose Valmont as a partner of choice because it is the market leader in mechanized irrigation. What made the client's decision easier, however, is the quality of Valmont pivots, their reliability, and superior design. The investors and Sudanese growers know the Valley brand and the credibility it comes with.

The results achieved are great. The project had quick turnaround times with the support of dedicated technicians available on site.

Benefiting the People of Sudan

The Nile River flows more than 6,600 kilometers, and people rely on its waters for its entire length. In the past this has meant inefficient flood irrigation.

The ZADNA project—and the involvement of Valley—is supporting Sudanese farmers in getting access to mechanized irrigation. This means that Sudanese growers can now be more efficient with water use, more exact with fertilizer application, and can grow bigger yields of higher quality than before.





This project is considered vital for Sudanese economic development. The development of sustainable agriculture on developed land that local farmers can begin using immediately means more work opportunities, increased food security, as well as improvement of the export balance in Sudan.

This massive 100,000-hectare project will provide employment opportunities in farming, harvesting, maintenance, packing activities, and opportunities for women. It is estimated that about five to six people will be hired for each 125 acres. This will include opportunities for new graduates and young people in rural areas. Moreover, a substantial quantity of fodder is exported from Sudan, specifically to GCC countries (Bahrain, Kuwait, Oman, Qatar, Saudi Arabia, and the United Arab Emirates), which brings in good income for farmers and their staff.

Ground-Level Training

ZADNA dedicated a training center to this project, with the goal of transferring knowledge to additional agriculture professionals from other African countries.

Valmont will give back to the community and region by providing educational programs, in cooperation with University of Nebraska-Lincoln, to Sudanese engineers. These programs will build advanced skills in mechanized farming including irrigation, land preparation, harvesting best practices, agronomy, and more.

The client trusted Valmont to deliver and has been very satisfied with the smoothness of every stage of the project, starting from timely delivery to installation, training, and service at the site. There have been very few warranty claims, and the end users are also happy.

