

Success Story: Supply and Commissioning of MDBs and 8 MW VFDs System

Project Information

Client: Hussein Atieh & Sons Co.

Project: Upgrade Khaw Pump Station C-T-24-0084-FARA Phase IV no.2 & Upgrade Khaw Pump Abu-Alanda phase (II)

Location: Khaw & Abu-Alanda, Jordan

Date of Completion: November, 2025

Project Overview

This project involved the supply, installation, and commissioning of a Main Distribution Board (MDB) and Variable Frequency Drive (VFD) system with a total capacity of 8000 kW (**8 Numbers**) to improve reliability and energy efficiency.

Scope of Work

- Supply and installation of MDB panels.
- Supply, programming, and commissioning of 8 X 1000 kW VFD system.
- Integration with existing systems and operator training.

Challenges & Solutions

- Managed commissioning with one transformer for each VFD and with one transformer using a bus coupler system.
- Applied ABB VFD ID Run for motor auto-tuning.
- Coordinated closely with client under tight timelines.

Results & Achievements

- Successful commissioning within schedule.
- Improved power quality and reduced starting current.
- Zero safety incidents.
- Positive client feedback.

Key Equipment

- MDB: ABB system, Form 4B, rated 2500A, 415V, 50Hz.
- VFD: ABB ACS880-37 cabinet-built ultra-low harmonic single drive series, 8 MW total capacity.
- Control Components: ABB breakers, UPS, relays, monitoring units.

Photos / Visuals







Client Testimonial

The commissioning team demonstrated excellent professionalism and technical expertise.

Conclusion

This successful completion reflects OMEGA's commitment to delivering high-quality power solutions.