

## 138/34.5 kV MUNICIPAL SUBSTATION

**Client:**  
Kaukauna Utilities

**Project Location:**  
Kaukauna, WI

**Approximate  
Installed Project  
Value:** \$2,500,000



*PCI was selected by a Wisconsin Municipal Utility to provide design, engineering, construction management and commissioning management services for the rebuild of three 138/34.5 kV substations.*

### **The scope of work included:**

- Prepared electrical design drawings and detailed electrical schematic diagrams
- Prepared specifications for new equipment, including SF 6 circuit breakers
- Evaluated bids and selected equipment
- Developed detailed design for new relay protection system.
- Prepared construction drawings and created construction bid packages
- Evaluated bids and selected installation contractor(s)
- Developed commissioning procedures for transformer, upgraded 34.5 kV bus and added new 34.5 circuit breakers
- Managed all onsite construction and commissioning work
- Prepared Data Manual for each substation that included:
  - Indexed “as built” drawings
  - Relay setting data
  - Manufacturers instructions
- All substation rebuilds completed under budget and on schedule

