

POWER ENGINEERING

Atwell Brings

- Local expertise, national reach
- Industry knowledge
- Dedicated experts and teams
- Full-service resources
- Nimble, flexible structure

Power System/Quality Studies:

- Transmission Interconnect
- Load Flow/Voltage Drop
- Short Circuit
- Relay Setting
- Power Quality
- Power Factor Correction
- Long-Range Plans
- Construction Work Plans
- Sectionalizing
- Motor Starting
- Harmonic Filters
- AC/DC Drive
- Grounding Systems
- Stray Voltage
- Energy Consumption
- Sub-Synchronous Harmonic Resonance
- Neutral Current Elimination

DRIVING POWER DELIVERY

Atwell's power engineering teams offer clients in the generation, transmission and distribution markets the information they need to make decisions, and the design solutions to successfully execute them. With decades of experience and thousands of projects completed, our specialized electrical and civil engineers collaborate to deliver substation, transmission, distribution and power system projects to power clients. Atwell supports power generation developers, electric cooperatives, investor-owned utilities, large industrial customers and municipalities.

Substation/Switchyard Engineering

Front-End Engineering Development | One Line & Three Lines | General Layout | Cost Estimating | Schematics & Wiring | Protective Relaying | Control Buildings | SCADA & Controls | Structures & Foundations | Grounding & Lightning Protection | Procurement | Construction Management & Inspection

Transmission Line Engineering

Front-End Engineering Development | LGIP, Power & Quality Studies | Cost Estimating | Routing & Siting | Structures | Foundations | Grounding & Lightning Protection | Sag & Tension | Plan & Profile | Conductor Analysis | Procurement | Construction Management & Inspection

Distribution System Engineering

Long-Range, Construction & Sectionalizing Studies | Route Selection | Cost Estimating | Voltage Conversion | Sag & Tension | Guying & Anchoring | Staking Sheets | Duct Bank | Material Procurement | Construction Management & Inspection

Renewable Energy Design & Engineering

LGIP, Interconnect, Load Flow/Contingency & Stability Studies | Reactive Compensation System | Collector System | Substations | Switchyards | Interconnects | Transmission Lines | SCADA | Communications | Controls | Engineer/Procure/Construct | Commissioning | Construction Management & Inspection