



Engineering... with Energy!

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Professional Products and Services in Energy:

Electrical Analysis:

- Short Circuit/ Fault Current Analysis
- Circuit Breaker Fuse Coordination
- Overcurrent Set Point Calculations
- Power Quality and Harmonics Issues
- Ground Systems and Fault Protection
- Electrical Power Load Flow
- Voltage Regulation

Electrical Power Engineering:

- Onsite Substation/ Service Entrance
- Transmission/ Distribution Lines
- Electrical Distribution Systems
- Electrical One-Line Development

Instrument & Controls Engineering:

- Remote Monitoring & Control
- Telecommunications
- SCADA for Power Generation
- Embedded Web Server Interface

Codes & Standards Compliance:

- NFPA 70; National Electrical Code
- NFPA 70E; Arc Flash Evaluation
- Federal Regulatory Compliance

Energy Business Development:

- Power Sales/ Marketing
- Energy Supplier Sales/ Marketing
- Third-party Financing/ Investment

Jaker Generation Software Products:

- Onsite Generation Analysis¹
- Utility Tariff Analysis for Generation¹
- Privatized Power Development¹

(Note 1: Microsoft™ Excel & Access based programs)

Industrial Software Expertise:

- SKM Power Tools for Windows
- AutoCAD Computer Aided Design
- Microsoft Database Development²

(Note 2: Jaker is a Microsoft™ Registered Partner)

Mechanical Analysis:

- Generation Heat Recovery to yield:
Hot Water/ Steam/ Chilled Water

Power Generation Economics:

- Design & Construction Estimates
- Operations and Maintenance Costs
- Return on Investment Analysis
- Financing and Leasing Options
- Identification of Avoided Costs
- Funding & Grant Applications

Natural Gas Well Site Development:

- Platform and Site Engineering
- Gas Treatment Requirements
- Interconnection and Metering
- Emissions Analysis & Calculations
- Licensing/ Registration/ Permitting

Visit our website for additional information and to download software products:

www.jakerengineering.com