

Ready Engineering Corporation offers a complete array of electrical engineering services, from standard greenfield and brownfield power distribution to state of the art utility generator protection systems.

Ready designs new power distribution systems from the ground up and retrofits new equipment into existing facilities. We can perform online equipment retrofits that allow the client to maintain production, ensuring smooth integration and minimal interruptions to our customer's operations.

Design Capabilities		
▪ Conceptual Design and Cost Estimating	▪ Electrical Power Distribution	▪ Equipment Specification and Procurement
▪ Switchgear, Motor Starters and Power Circuit Breakers	▪ Power Transformer Specification and Protection	▪ MCC Specification Layouts
▪ Medium Voltage Power Circuit Breakers	▪ Medium Voltage Switchgear Specifications	▪ Medium Voltage Motor Starters
▪ VFD Specification and Configuration	▪ Cable Management Systems	▪ Distribution Equipment Protection and Control
▪ Emergency Power Generation	▪ UPS Applications	▪ Automatic Transfer Schemes
▪ System Grounding and Equipment Bonding	▪ Fire and Gas Detection Systems	▪ Interior and Exterior Lighting
▪ Molded Case Circuit Breaker Applications	▪ Communication Systems	▪ Electrical Heat Tracing
▪ Custom Panel Layouts	▪ Equipment Installation Details	▪ Commissioning and Testing Procedures
▪ Generator Protection and Voltage Regulation	▪ Hazardous Area Classification Analysis	▪ Constructability Reviews
▪ Application of Motor Starting Methods	▪ Mechanical Analysis of Driven Equipment	▪ Motor Specification, Protection and Control

## System Modeling

Ready Engineering uses industry-standard computer software to model small distribution systems and complete industrial plants operating at multiple voltage levels. Modeling a system is useful in new system design for comparison of existing load/fault levels with equipment ratings, and for investigating transient disturbances on systems. Power system reports are backed up, where practical, with actual field measurements.

Modeling Software	Drafting Software
<ul style="list-style-type: none"> <li>▪ ETAP Enterprise Solution for Electrical Power Systems</li> <li>▪ SKM Power* Tools for Windows</li> </ul>	<ul style="list-style-type: none"> <li>▪ AutoCAD</li> <li>▪ Microstation</li> </ul>

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## Power System Studies

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| ▪ Load Flow                                      | ▪ Short-Circuit / Fault Levels                       | ▪ Protective Device Evaluation and Coordination |
| ▪ Arc Flash                                      | ▪ Motor Acceleration, with full mechanical analysis. | ▪ Voltage Drop                                  |
| ▪ Harmonic Load Flow – Mitigation and Compliance | ▪ Voltage Droop                                      | ▪ Power Management and Load Shedding            |
| ▪ Transient Disturbances                         | ▪ Single Stage Power Factor Correction               | ▪ Multistage Power Factor Correction            |

## Power Management Expertise

With utility deregulation and rising energy costs, power management can significantly reduce operating costs. Ready Engineering can provide a power management study and, using our expertise in controls, integrate a power management program with the existing plant control system. A tailored solution may involve several of the studies listed above.

## Customer Focus

A cornerstone of Ready's success is our insistence in working closely with our customers throughout a project. While not earth shattering, many consultants miss this fundamental concept, resulting in mismatches between customer requirements and system features. We work closely with the customer's engineering, maintenance, and operations personnel to ensure that we consider all aspects of a particular design and consequently meet the needs of the three groups involved.

Often, other consultants and contractors are involved in a project. Ready works in a cooperative and proactive manner to ensure that each party's work scope meshes seamlessly with one another. Similarly, Ready regularly acts as owner's engineer, coordinating with other consultants and contractors to provide a well-designed and smoothly implemented system for the customer.

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