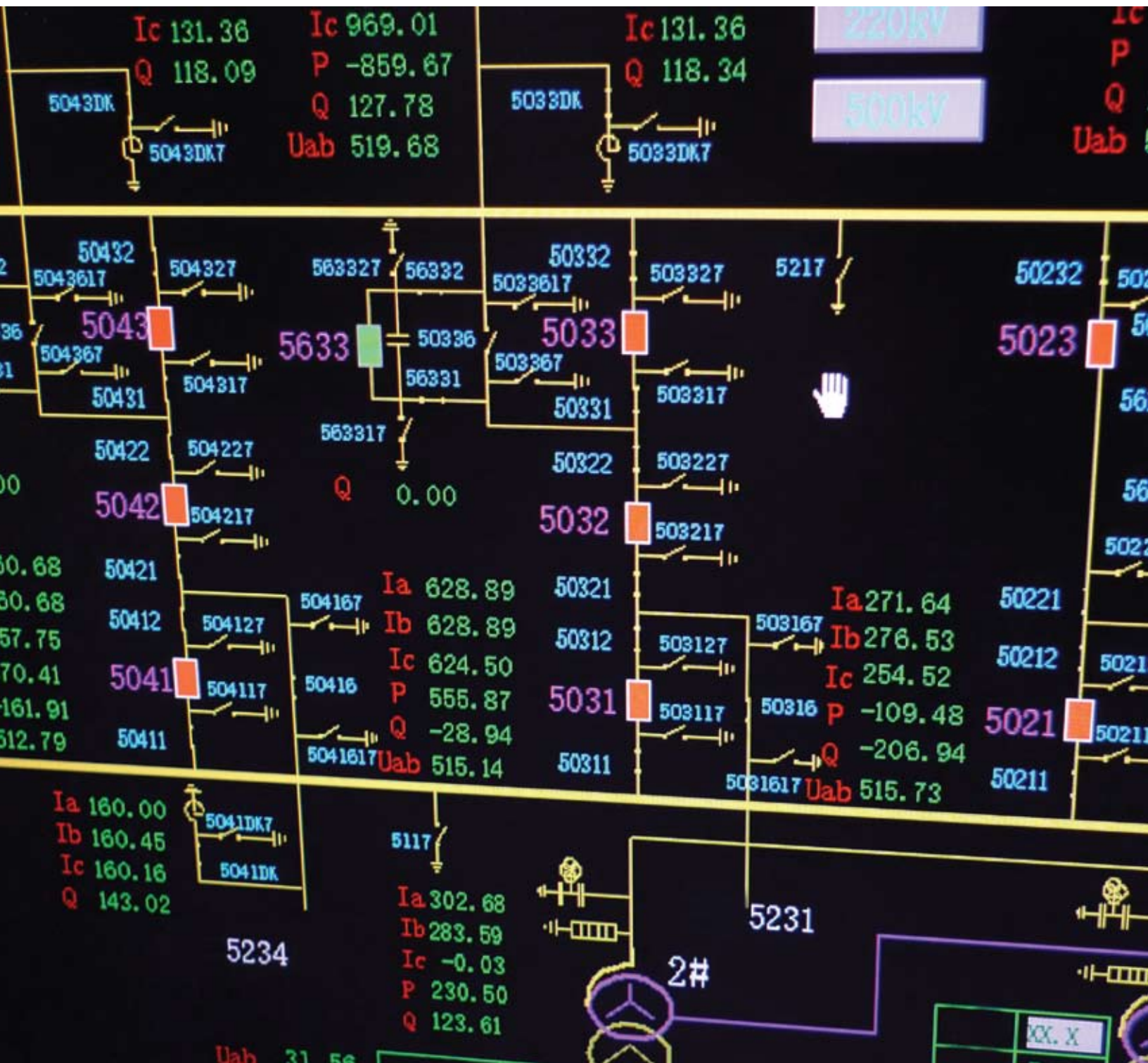




# Distribution Engineering And Consulting (DECON)

Optimize System Performance, Design And Operations



Kinectrics provides expert consultation services on overhead and underground Distribution planning, design, application and operation practices for utilities.

We provide expert technical support to improve our customers' key industry performance indicators such as safety, reliability and economic efficiency.

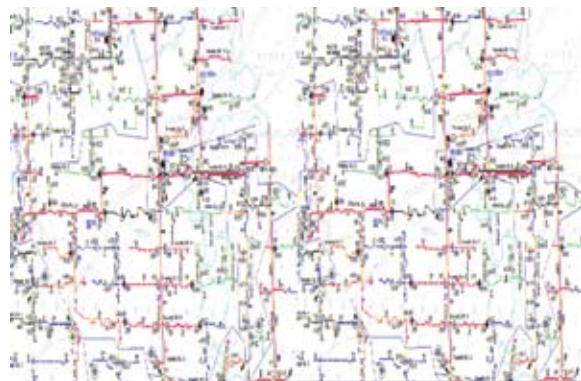
To remain efficient, electric utilities need to optimize Distribution asset performance using modern planning, design, application and operation practices. Power quality, system losses and reliability must meet utility benchmarks while performance levels are maintained consistently within regulated operating and capital budgets. To maximize plant utilization without overstressing components, problems have to be solved before they escalate. A safe working environment for employees must be maintained. Sound engineering principles are essential to gain optimal performance in the selection and application of Distribution equipment such as transformers, fuses, arresters, cables and accessories. Understanding and effective control of advanced equipment and technology and its subsequent benefits is also critical in the new utility reality of declining staff resources.

## **MAXIMIZE ASSET UTILIZATION AND REDUCE COSTS**

Kinectrics' DECON Services deliver value-added results to utilities and industrial clients.

These direct benefits include:

- Increased energy efficiency and minimized losses
- Reduced capital and operating costs
- Accurate estimates and extended equipment life
- Effective customer retention support
- Enhanced reliability and safety



## **PRACTICAL, ADVANCED ENGINEERING**

Kinectrics' DECON Services offer practical solutions for your advanced engineering problems. Our team of internationally recognized experts can provide you with consultation on planning, design, application, and operation of electrical Distribution equipment. When required for standard testing, product evaluations or simulation, our High Current, High Voltage, mechanical and chemical labs are readily available with experienced, professional staff and state-of-the-art instrumentation.

## QUALITY ENGINEERING AND CUSTOMER SERVICE

Quality customer service is our number one priority. Kinectrics provides prompt, professional engineering solutions, including:

- Asset Condition and utilization
- Protection coordination
- Appropriate equipment selection and application
- Product review, evaluation and comparison
- Line and transformer loss evaluation and reduction
- Equipment life estimation and extension
- Equipment upgrading
- Reliability and maintenance studies
- Performance-based rate strategies
- Cable replacement analysis
- Research studies
- Production of application guides
- Computer modeling, simulations and software development
- Technical audits and benchmarking
- Expert interface with clients and manufacturers
- Training seminars and workshops

## EXTENSIVE EXPERTISE AND EXPERIENCE

Kinectrics' team of experts has unparalleled experience and success in solving Distribution application problems. We test all types of Distribution products in our laboratories. Our team can monitor trends and new technologies. Kinectrics' expertise can help equip you to address issues such as customer satisfaction and retention, product differentiation and energy efficiency. We provide fast, professional response to safety issues arising from equipment failures or staff concerns.

### DISTRIBUTION SYSTEM EXPERTISE

- System analysis
- Transient current and voltage phenomena
- Power quality
- Distribution system losses
- Effects of lightning
- Distribution automation
- Equipment up-rating and life assessment
- Software development for design and analysis
- HV and HC testing

### DISTRIBUTION COMPONENT EXPERTISE

- Transformers
- Regulators
- Capacitors
- Cables, splices, terminations
- Separable insulated connectors
- Fuses, cutouts, reclosers
- Switches
- Fault indicators
- Surge protective devices
- Wood poles
- Meters, PTs and CTs



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