DINIS

Power systems Analysis for Network Planning & Design

ITC Software

Market Position

DINIS is one of the most advanced and comprehensive electrical network analysis tools commercially available

to the limit

Operating an electricity distribution company today is a complex business. Issues such as ensuring adequate network capacity, extending the life of installed assets, and effectively operating a network closer to its limits can dramatically affect a company's efficiency.

DINIS® can help companies to better serve their customers at competitive prices through the use of engineering tools for fully analyzing, modeling and designing safe, reliable, and efficient transmission and distribution networks. a world of difference.

Developed for electrical engineers by electrical engineers, **DINIS** is one of the most advanced and comprehensive electrical network analysis tools commercially available. Its analytical capabilities facilitate dramatic improvements in operational performance and reliability through:

- Minimization of losses on networks resulting in considerable ongoing savings
- Identification of lightly loaded networks to highlight marketing opportunities and improve utilization
- Regular reappraisal of plant and circuit status to determine if and where overloads could occur
- Better use of existing assets through better understanding of the current distribution network.

the right balance

DINIS' versatile design sets new standards in its speed of implementation, requiring only minimal bespoke work to fit any specific network analysis requirements, and it can be further customized or extended as your needs develop.

DINIS has been implemented globally, including the majority of UK distribution companies, so ITC has a wealth of practical experience to help electricity companies world-wide in gaining the maximum benefit from **DINIS**.

ITC in utilities

"DINIS is used extensively throughout EDP's organisation to maximise the utilisation of our electricity network and deliver the necessary productivity benefits demanded by an increasingly competitive market."

Electricidade de Portugal

DINIS is a fully integrated data capture and electrical network analysis application that can operate either as a stand-alone system or be linked to other applications.

The combination of its intuitive graphical user interface and power to analyze large networks not only makes it truly easy to use, but enables engineers to focus on exploring the full potential of their existing network rather than fighting the technology.

Consequently, it is possible to accomplish in a few hours what previously took days or weeks using conventional methods.

the power to control

DINIS can display a geographic representation of entire networks, color coded by voltage, capacity or phase and displayed simultaneously in geographic or schematic form. Its continuous pan and zoom facilities allow rapid navigation around your network.

Accuracy is aided by features such as the fully-detailed transformer model, which includes winding losses and tap change combinations to international standards.

DINIS can also provide fast answers to 'what-if' questions for managing overloads and underloads, thereby minimizing losses and helping to optimize investment plans.

at the core of the business

As a modular system, **DINIS**' central features include:

- Network analysis, 3, 2, single phase or SWER, all mixed, unlimited nodes
- Advanced transformer modeling including losses
- Fault analysis to IEEE and ANSI standards
- Two phase unbalanced allocation
- Cable resistance (heating) effect
- Loss optimization
- Automatic load allocation
- Reliability analysis
- Relational Database Access

Optional specialist modules, which utilize the same user interface and data as the core **DINIS** modules, are:

- Unbalanced Load Flow
- Load Management
- Transient Stability
- Protection Co-ordination
- Network Reduction
- Mutual Coupling
- Time of Day Loading Analysis
- Automatic Loss Minimization
- Distributed Low Voltage Allocation
- Vector and Raster Map Backgrounds
- Debut - Low Voltage Planning
- DSQL - Reporting Tool
- API Developers' Toolkit

For further information contact:

ITC
Telephone: ++1 978 287 4855
Email: info@itcsoftware.com
ITC web site: www.itcsoftware.com