# Concorda* Software Suite

The software team develops, licenses, and supports the Concorda Software Suite. These products are internationally known and widely used to plan and simulate electric power grids, assess the economic performance of large electricity systems, and evaluate generation reliability.

Positive Sequence Load Flow (PSLF*). PSLF software is a collection of analytical tools that simulate both the steady state and dynamic nature of very large power systems (up to 80,000 buses). PSLF software is ideal for numerous applications, including simulating the transfer of large blocks of power across a transmission grid, or the transfer of power to neighboring systems. Its powerful programming language enables you to build customized models, perform advanced post-processing, and construct "macros" that automate execution of repetitive simulations.

Multi-Area Production Simulation (MAPS*). To accurately model the economic operation of a power system, you can use MAPS software to assess the value of generating assets or identify costly transmission bottlenecks. It analyzes hour-by-hour industry dynamics to capture complex interactions between generation and transmission systems. MAPS software gives you the flexibility to perform either zonal or nodal analysis. The MAPS nodal software recognizes normal and security-related transmission constraints to model the actual electrical system in detail. This allows you to analyze opportunities for an individual company or examine the economic interchange of energy between several companies in a region.
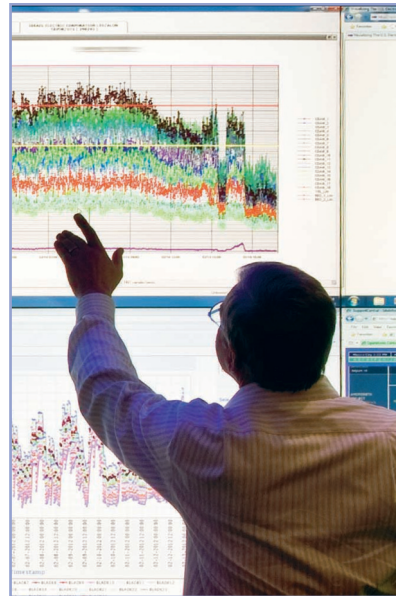
Making the right choices in today's environment requires increasingly detailed information about the operation of the power system. MAPS software integrates highly detailed representations of a system's load, generation, and transmission into a single simulation.

Multi-Area Reliability Simulation (MARS*). MARS modeling software allows you to quickly and accurately assess the ability of a power system to satisfy load requirements. MARS software performs a chronological hourly simulation that compares hourly load demand in each area to the total available generation—while accounting for planned maintenance and randomly occurring forced outages. Areas with excess capacity can provide emergency assistance to those areas that are deficient, subject to the transfer limits between the areas.

For more information visit us online at
www.ge-energyconsulting.com