TRANSMISSION & INDUSTRIAL SYSTEM ANALYSIS

PSAF | Power Flow | Short-Circuit | Harmonics | Transient Stability | And more...

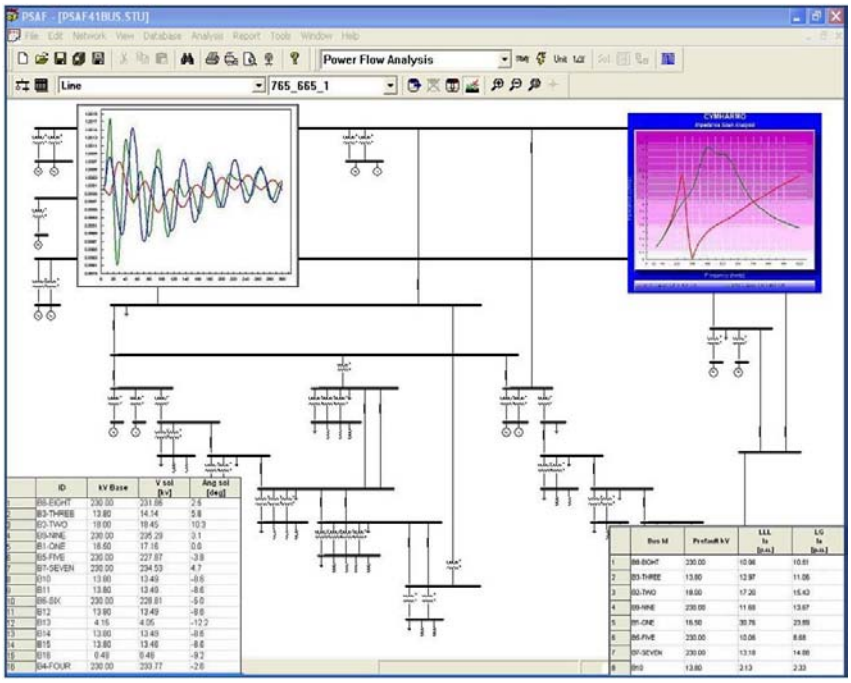
PSAF, Power Systems Analysis Framework

Power Systems Analysis Framework (PSAF) is an integrated power systems analysis software package that includes the Graphic User Interface, Data Base Manager, and Electrical Equipment Parameter Estimation for creating the Network one-line diagram and associated database.

PSAF is directly applicable to both utility-type and industrial three-phase electric power systems.

A wide selection of network equipment and controllers is supported by a built-in database that contains industry standard equipment characteristics. Every type of equipment features more than one modeling possibility depending on the purpose and extent of the simulation to be conducted.

PSAF offers both graphical and tabular data entry modes, user-preferred single-line diagram drawing options (including exporting to AutoCAD™) and sophisticated facilities for reporting, plotting and customizing the simulation reports.



Analysis Modules

The PSAF software is modular since each of the simulation and analysis modules listed below can be acquired independently from one another.

CYMFLOW	Power Flow
CYM-Motor Start	Motor Starting
CYM-AC Contingency	AC Contingency Analysis
CYMOPF	Optimal Power Flow
CYMFAULT	Short Circuit ANSI and IEC
CYMFAULT/CYMTCC	Interface
ARC Flash Hazard	

CYMSTAB	Transient Stability
UDM	User Defined Modeling
WECS	Wind Energy Conversion Systems
CYMVSTAB	Voltage Stability
CYMHARMO	Harmonic Analysis
CYMBREAK	Breaker Ratings Analysis
CYMLINE	One Line Diagram Autocad ™ Interface

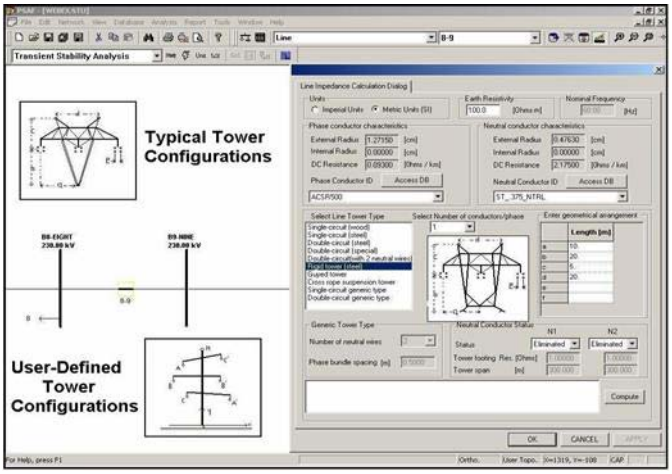
Each of the simulation modules features industry-proven, state of the art modeling and solution techniques, making PSAF a reliable tool for demanding engineering analysis.

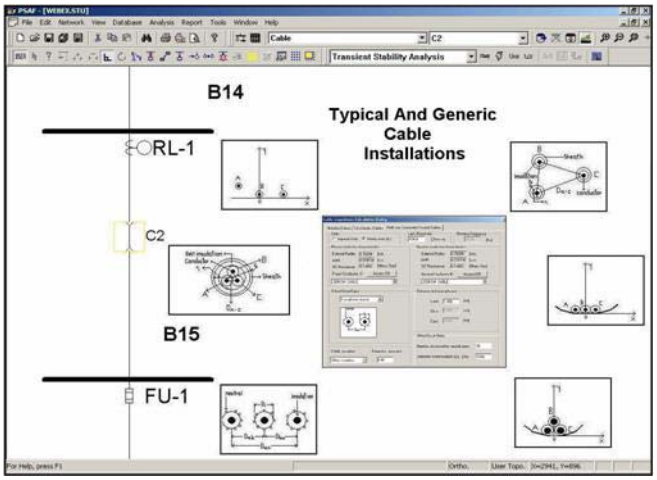
Electrical Equipment Parameter Estimation

In the absence of detailed information, PSAF is capable of suggesting typical data for the system equipment. These estimating functions account for a wide array of industry manufacturing practices and respect the recommendations outlined in both North American and International calculating guidelines.

This includes advanced Overhead Line and Cable Parameter Estimation Programs.

Transmission line models are defined by their geometrical line configurations. Transposed and/or full three-phase un-transposed models including frequency dependency are supported for single or double circuit lines, with solid or tubular conductors, multiple conductors per phase and multiple neutral wires (segmented or not).

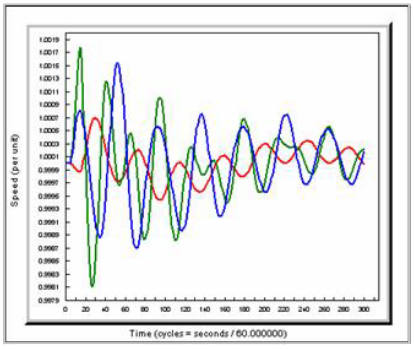




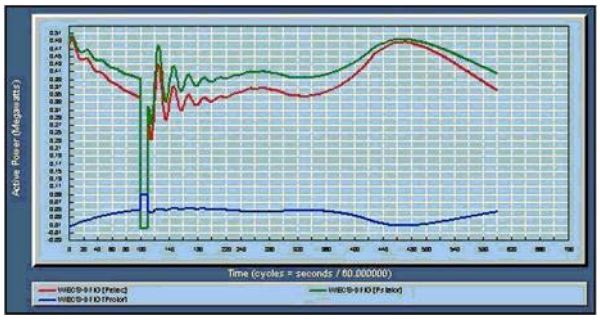
Underground cable constants are calculated single and/or three-core cables with either sheath or ground return.

CYMVIEW, Graphical Output Program

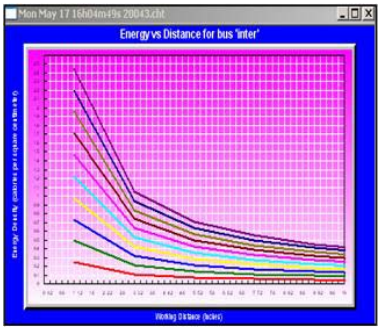
PSAF is equipped with CYMVIEW that generates any kind of charts for all the analysis modules such as CYMSTAB, CYMHARMO, CYM-Motor Starting, etc. CYMVIEW is capable of managing the outputs of different modules and storing results for any number of simulations pertaining to the same module.



CYMSTAB



Wind Energy Conversion Systems (WECS)



Arc Flash Hazard

Canada & International
1485 Roberval, Suite 104
St-Bruno, QC Canada J3V 3P8
Tel. (450) 461-3655
Fax (450) 461-0966

U.S.A.
67, South Bedford St, Suite 201 East
Burlington, MA 01803-5177 USA
Tel (781) 229-0269
Fax (781) 229-2336

U.S.A. & Canada
1-800-361-3627

www.cyme.com
info@cyme.com