

EMTP-RV SIMULATION SOFTWARE















The reference for power systems transients **www.emtp-software.com**

What is EMTP-RV?

EMTP-RV is a full-featured and technically advanced simulation and analysis software for power system transients.

The package is a sophisticated computer program for the simulation of electromagnetic, electromechanical and control systems transients in multiphase electric power systems.

EMTP-RV features a wide variety of modeling capabilities encompassing electromagnetic and electromechanical oscillations ranging in duration from microseconds to minutes.

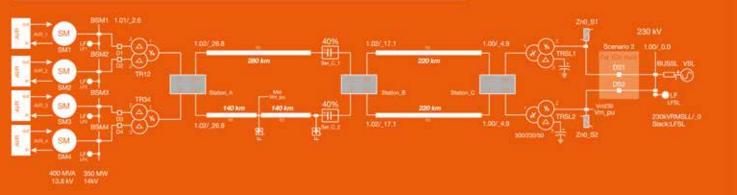
EMTP-RV's standard library provides a comprehensive and well-documented list of components and function blocks that allow the user to realize easily complete and complex power system studies.

It includes:

- Advanced model of electrical machines,
- Detailed and precise models of lines and cables,
- Complete models of transformers that can model saturation and the hysteresis of the magnetic core,
- Extensive library of control devices and functions,
- HVDC library



Transmission of 1450 MW over 500km 500 kV lines. Transient stability study.



EMTP-RV package includes

EMTPWorks:

The Graphical User Interface

An advanced, yet easy-to-use graphical user interface that maximizes the capabilities of the underlying EMTP-RV engine. EMTPWorks provides many customization options and one can easily adapt it to match its unique needs.

EMTP-RV:

The computational engine

A powerful and super-fast computational engine that provides significantly improved solution methods for nonlinear models, control systems, and user-defined models.

ScopeView:

Data display and analysis

Provides waveform visualization and advanced mathematical post-processing capabilities. ScopeView is a data acquisition and signal processing software very well adapted for the visualization and the analysis of EMTP-RV simulation results.



The simulation of power systems has never been so easy!

EMTP-RV's strengths: Used worldwide as a reference tool by the main actors of the power system industry since many years (EDF, Hydro-Québec, RTE and many other utilities, manufacturers, consultants...),

Large field of power systems applications,

Numerical robustness and stability,

Comprehensive built-in libraries including detailed models of electrical machines, transformers, lines, cables, ...

Automatically initializes time-domain simulations from steady-state,

Capability to simulate very large power systems and power electronics systems without compromising precision,

The most advanced user-defined modeling capabilities using DLLs and devices in the GUI,

The same design can be used for load-flow, steady-state, time-domain and frequency scan simulation,

Scriptable and customizable easy-to-use GUI,

Many application examples are provided with EMTP-RV,

Reactive and efficient technical support,

Competitive pricing.

Insulation coordination study of a 765 kV GIS.







Typical applications

- Power System design
- HVDC
- Renewable energy sources
- Insulation coordination
- Lightning and switching transients
- Ferroresonance
- Motor starting
- Advanced line and cable modeling
- Power electronics and FACTS
- Control system design

EMTP-RV simulation options

With EMTP-RV, complex problems become simple to work out! Suited for the analysis and the design of any power system with several simulation options.

These are:

- Load-flow
- Steady-state solutions
- Time domain solutions
- Frequency scans



POWERSYS has been developing, marketing and distributing EMTP-RV since April 2011. POWERSYS is a consulting and software company providing global solutions of engineering software and services for industry, research and education in the field of electrical & electromechanical power systems.

Our main market orientation is to offer specialized, affordable and expandable software to our customers.

The combination of the different software constitutes a complete range in the field of electrical power systems, power electronics and electromechanics.

CONTACTS EMTP-RV OFFICIAL DISTRIBUTORS

Local distributors may be available in your country. Check the list of distributors at

Before and after sales support is very important to us. EMTP-RV's team will provide you with comprehensive assistance and technical support.

- Dynamic development roadmap
- Prompt and effective technical support
- Strong customer service culture
- Personal commercial follow-up
- Worldwide network of distributors



Discover the power of EMTP-RV!

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Try EMTP-RV and our comprehensive support services during 15 day evaluation:

If you have not already tried EMTP-RV, feel free to request your full professional trial license to explore the full capability of the software.

Technical support services:

sales.usa@emtp-software.com

Tel. +1 727 288 8100

During your evaluation, our technical support team will assist you in your use of the software.

Online support section:

In this section, you will find video tutorials, an exchange platform, FAQ, technical presentations and a forum.

The EMTP-RV User Community is becoming more and more active!

The EMTP-RV User Community is here to support User Groups and share technical presentations from previous meetings. The community is animated by involved and motivated academics and professionals from industry. Most of them have been using EMTP-RV for years now.

Tel. +33 (0)4 42 61 02 29

Many events are regulary organized such as trainings, user group meetings and courses.





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