

PSCAD

PSCAD is simulation software that's used by organizations that need to design, analyze, optimize, and verify power electronic controls and systems. PSCAD works with the EMTDC transient simulation program, and is used by commercial, industrial, and research companies.

For more than four decades, the international user base of PSCAD has grown. Consequently, Manitoba Hydro International Ltd—the application's developer—has heavily invested in research and development activities. Now, PSCAD is one of the most popular power system modeling and simulation packages.

Top features of PSCAD include its Python-based automation library that allows users to call PSCAD functions via custom scripts. Using the library, users can load a custom simulation model as well as workspaces and projects. Batch operations are also possible, enabling users to simultaneously run multiple simulations.

Other features of PSCAD include flexible component, transmission line, and cable parameters. The application also provides for the organization and output of data in multiple file formats. Also, a comprehensive reporting module makes the generation of standard and custom reports easy.

PSCAD integrates with Intel and Compaq Fortran, Visual Studio, and MATLAB. Prospective buyers with special integration needs should discuss their requirements with their PSCAD account representative.

Pricing for PSCAD is not publicly available and can vary depending on the number of licensed users and features.

Overall, PSCAD gives firms the software that's needed to help engineering companies that work with the world's most common power systems. With almost unlimited applications, the software provides a visual interface for almost any project.