MANITOBA·HVDC
RESEARCH
CENTRE

PSCAD

Since 1993, PSCAD® has been the professionals' choice... 33,000+ users in 76 countries.

World-leading Power System & Engineering Services

The Manitoba HVDC Research Centre is dedicated to pioneering innovative technologies for the global electric power industry by supplying power system simulation tools, applied research, and engineering services. We foster strategic partnerships, and collaborate with leading researchers and industry associations.

The Manitoba HVDC Research Centre is a division of Manitoba Hydro International Ltd., a wholly-owned subsidiary of Manitoba Hydro, Canada's 4th-largest electrical utility.

Year	Event	
1981	Non-profit research company founded	▽
1983	EMTDC used for commercial application	EMTDC
1993	PSCAD v.2 for Unix commercially available	PSCAD v.2
1994	RTDS Technologies Inc. founded	RTDS Technologies
1999	PSCAD v.3 (Windows version)	PSCAD EMTDC
2000	Centre becomes a subsidiary of Manitoba Hydro	Manitoba Hydro
2003	PSCAD v.4 released	PSCAD v.4
2009	Centre becomes division of Manitoba Hydro International Ltd.	Manitoba HYDRO INTERNATIONAL
2010	PSCAD X4 released	PSCAD X4

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visualize
design
simulate
verify
solve

Visual Simulation
FOR POWER SYSTEMS
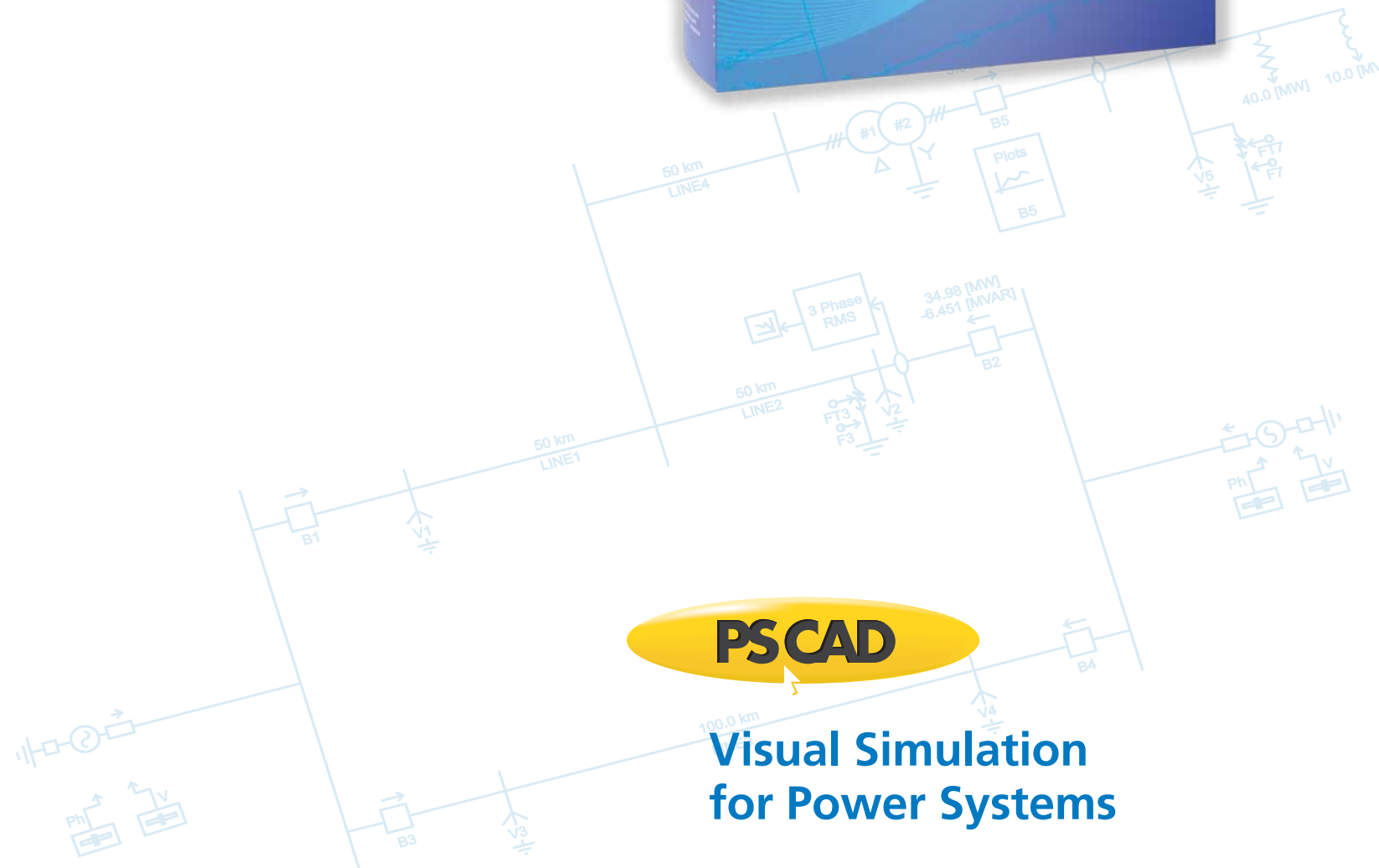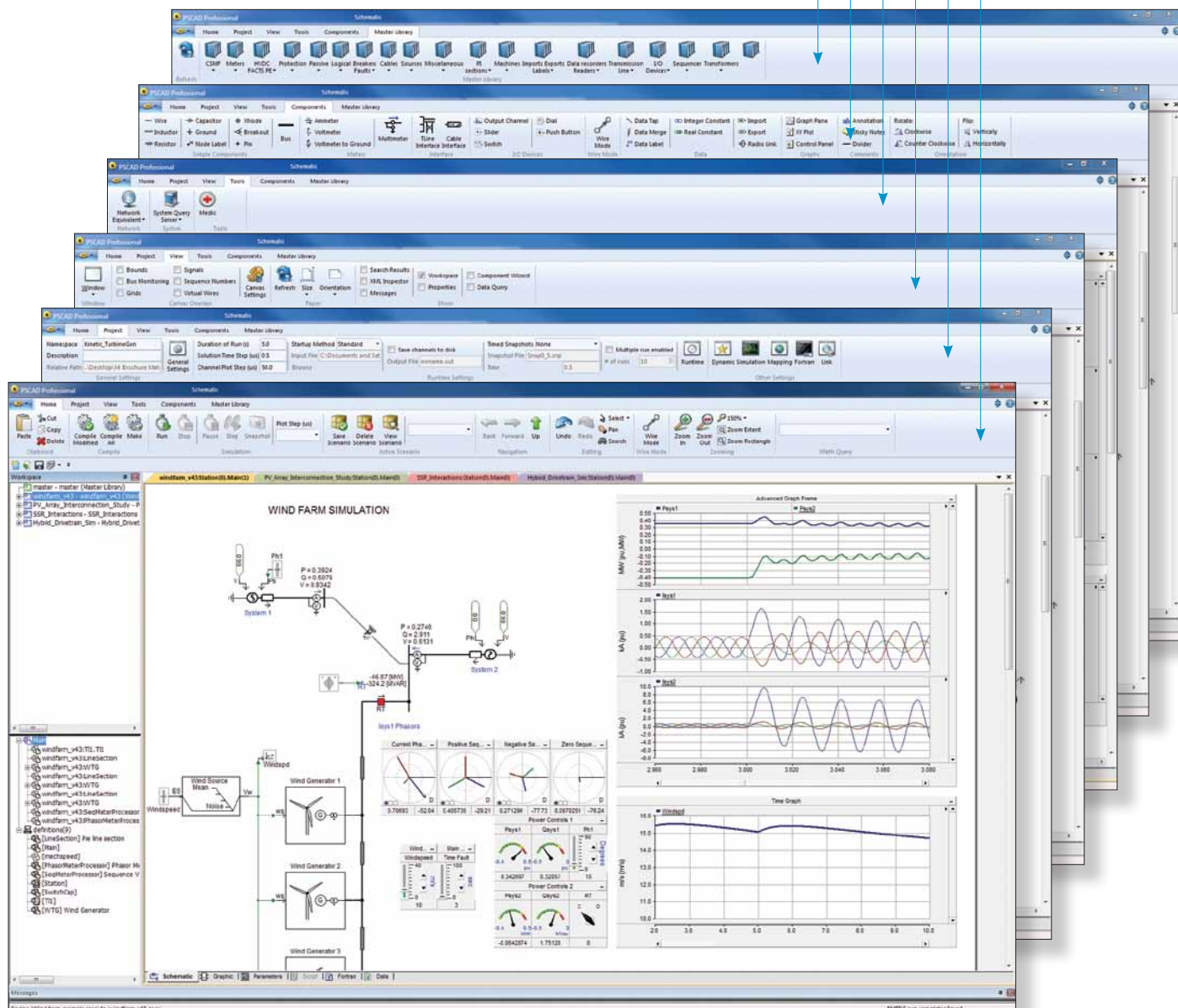
PSCAD

Visual Simulation for Power Systems

The Professionals' Choice
for Power System Simulation...

PSCAD® is a fast, accurate, and easy-to-use power system simulator for the design, analysis, optimization and verification of power systems and power electronic controls. PSCAD,® with the EMTDC™ transients simulation program, provides a rich set of tools and models for complete and accurate analysis of your electrical systems.

Master Library

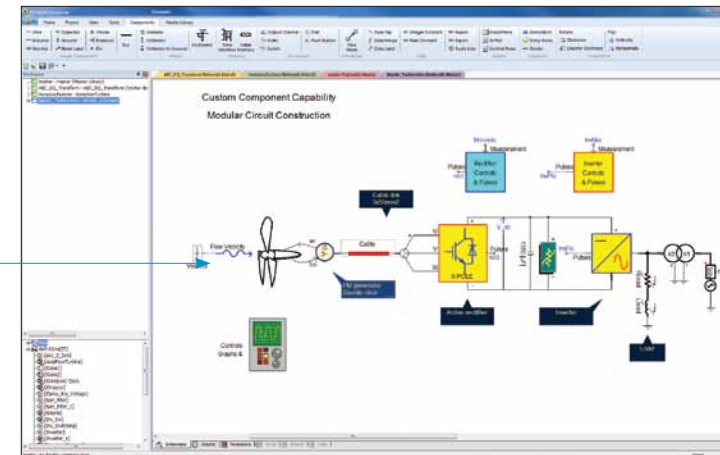Component

Tools

View

Project

Home

A modern ribbon control bar provides easy accessibility to most features and components. Included is a quick access bar, which is fully customizable for placement of favoured button actions.

Custom component design capabilities

Online Controls

Comprehensive, extensively validated master library
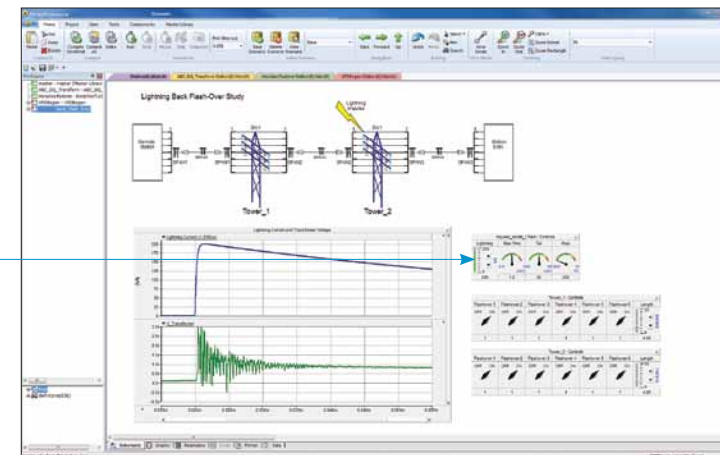
Polymeter

Overlay Graph

WIND FARM SIMULATION

Modern application framework has improved the working environment by providing customizable docked windows, as well as window pinning and hiding. A new tabbed document interface (TDI) enhances convenience in project navigation. Revamped component wizard and search interfaces provide more flexibility in creating new components and project searching.
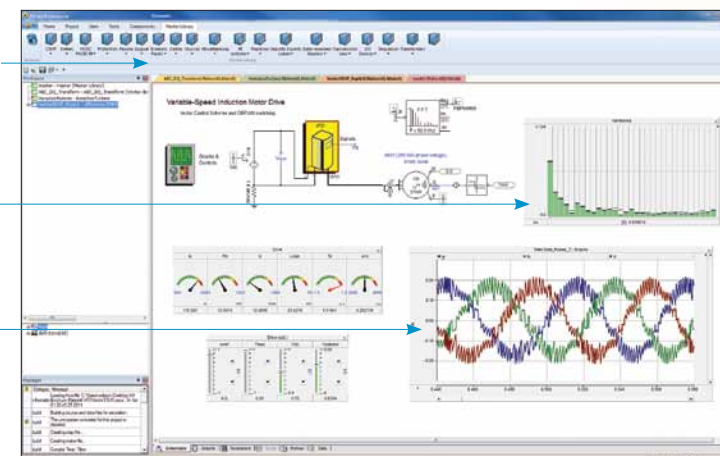
Limitless Applications

A product of 30 years of power systems simulation research, PSCAD® has become the visual design tool of choice at commercial, industrial, and research organizations worldwide. Applications include:

- AC transients and insulation coordination studies including TOV, TRV, lightning and VFT, line and equipment switching
- HVDC interconnection studies (conventional as well as VSC based)
- Modeling and assessment of FACTS based solutions SVC, STATCOM, TCSC, and other
- Wind energy system design and integration Fault ride-through, control and protection performance, SSR concerns
- Power quality studies that include a wide spectrum of harmonics
- Protection and control system design, optimization, and validation studies
- and much more...

Advanced Display Techniques

With its complete set of controls and control logic, PSCAD® provides the end-user with the ability to interact with their power systems models.

As a simulation runs, users can dynamically control events and input data, and have the ability to record and display output using advanced plotting techniques. PSCAD® users gain a better understanding of complex systems, which results in optimal designs.

Dedicated Support Team & Help Desk

PSCAD®'s dedicated technical support team consists of highly qualified professional engineers and technology specialists with expertise in different areas of simulation.

This team helps with software-related issues, guiding users on complex studies and applications, and offering users a wide range of application examples.

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