










**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.

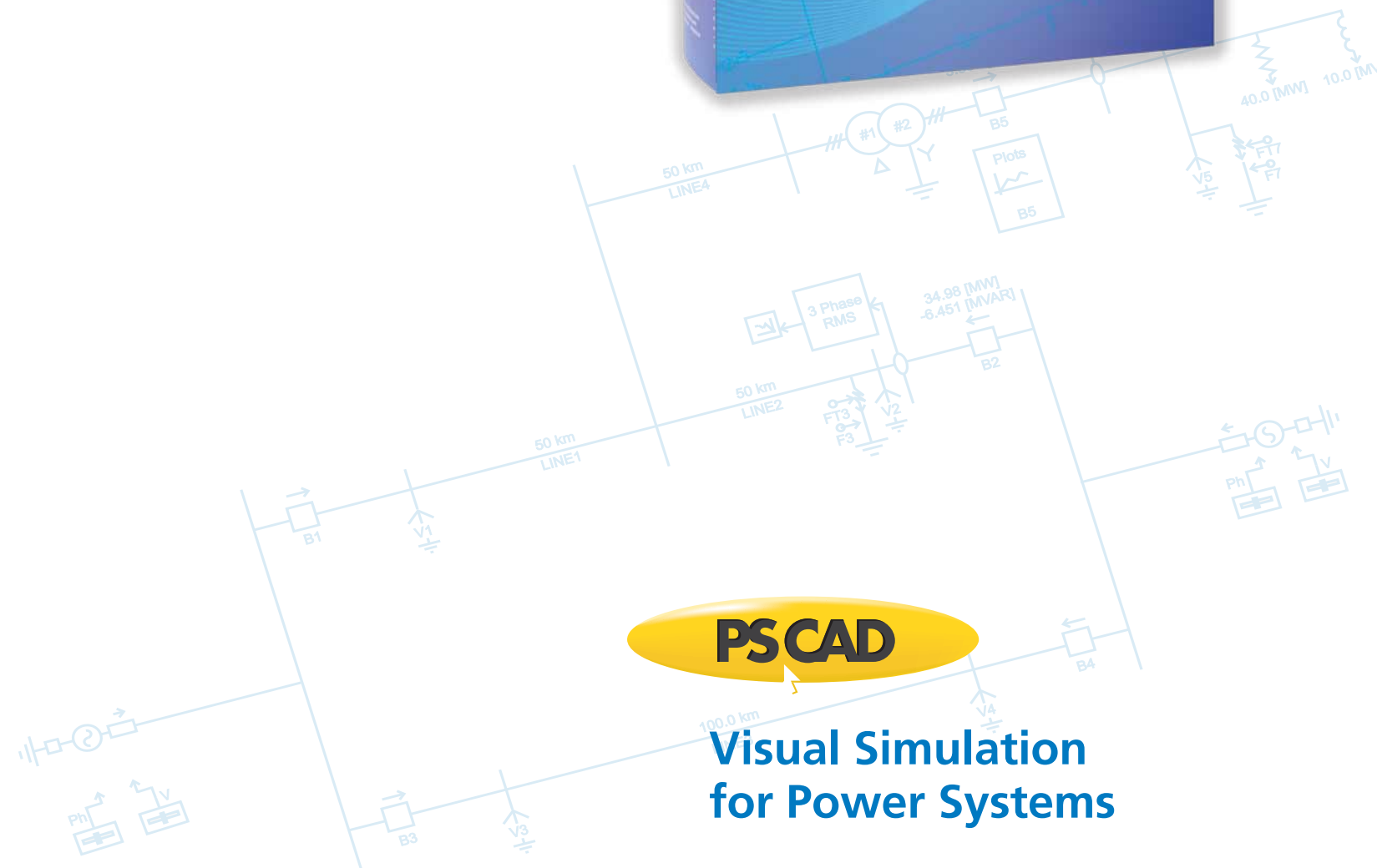
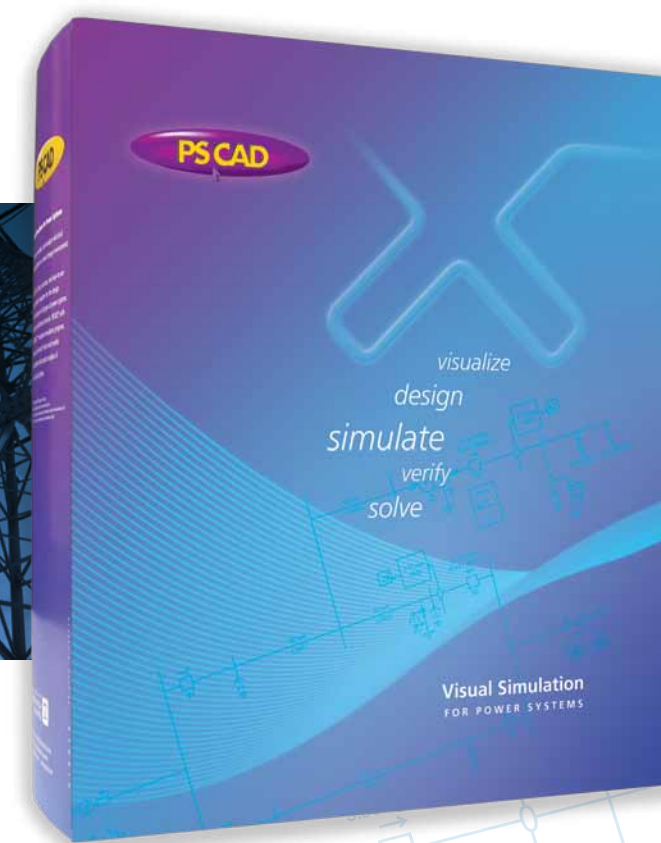
1981	Non-profit research company founded	
1983	EMTDC used for commercial application	
1993	PSCAD v.2 for Unix commercially available	
1994	RTDS Technologies Inc. founded	
1999	PSCAD v.3 (Windows version)	
2000	Centre becomes a subsidiary of Manitoba Hydro	
2003	PSCAD v.4 released	
2009	Centre becomes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

[www.pscad.com](http://www.pscad.com)

Manitoba HVDC Research Centre  
211 Commerce Drive  
Winnipeg, Manitoba, Canada R3P 1A3  
T +1 204 989 1240 F +1 204 989 1277  
info@pscad.com

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**PSCAD**

**Visual Simulation  
for Power Systems**

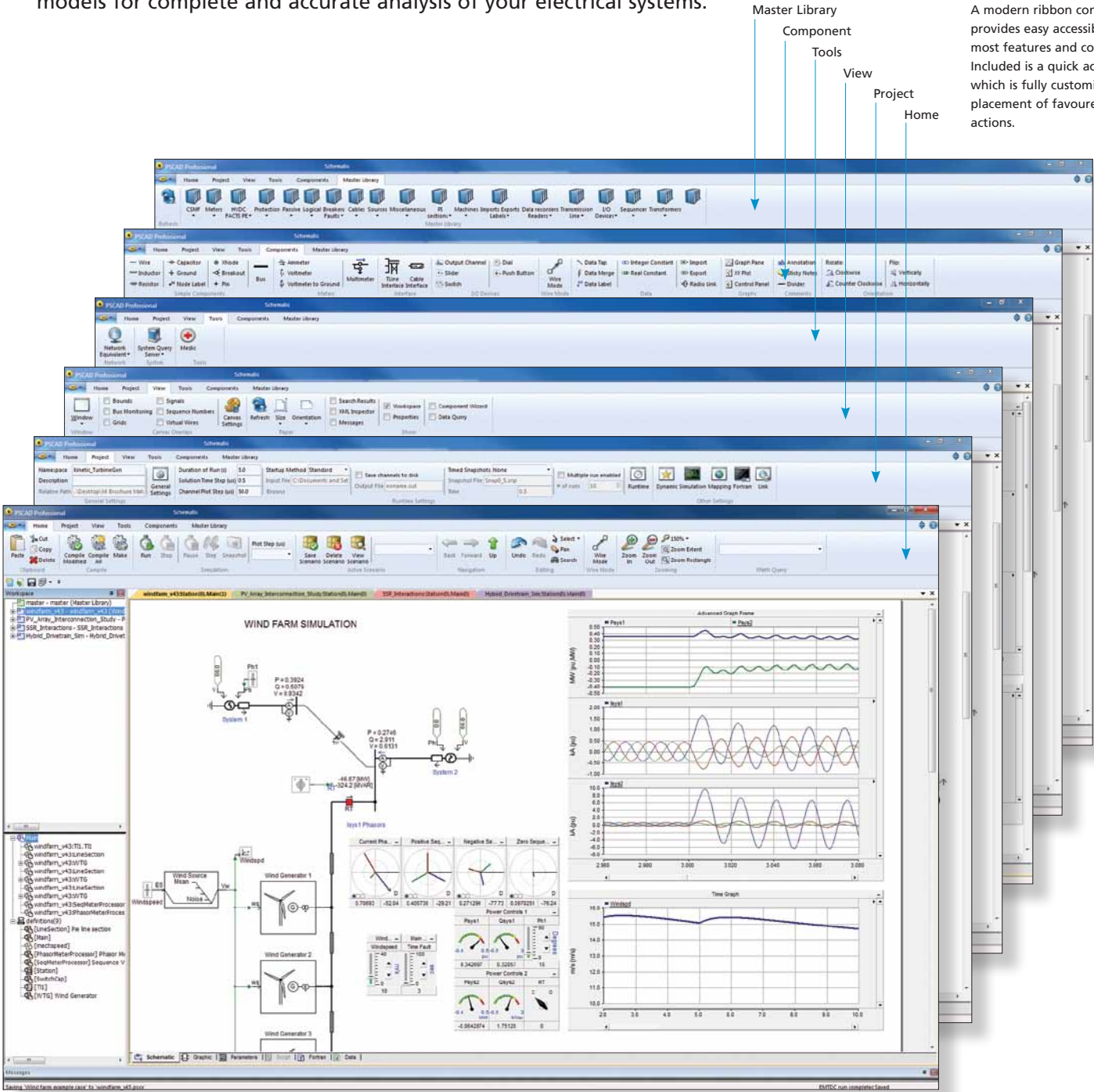


# The Professionals' Choice for Power System Simulation...

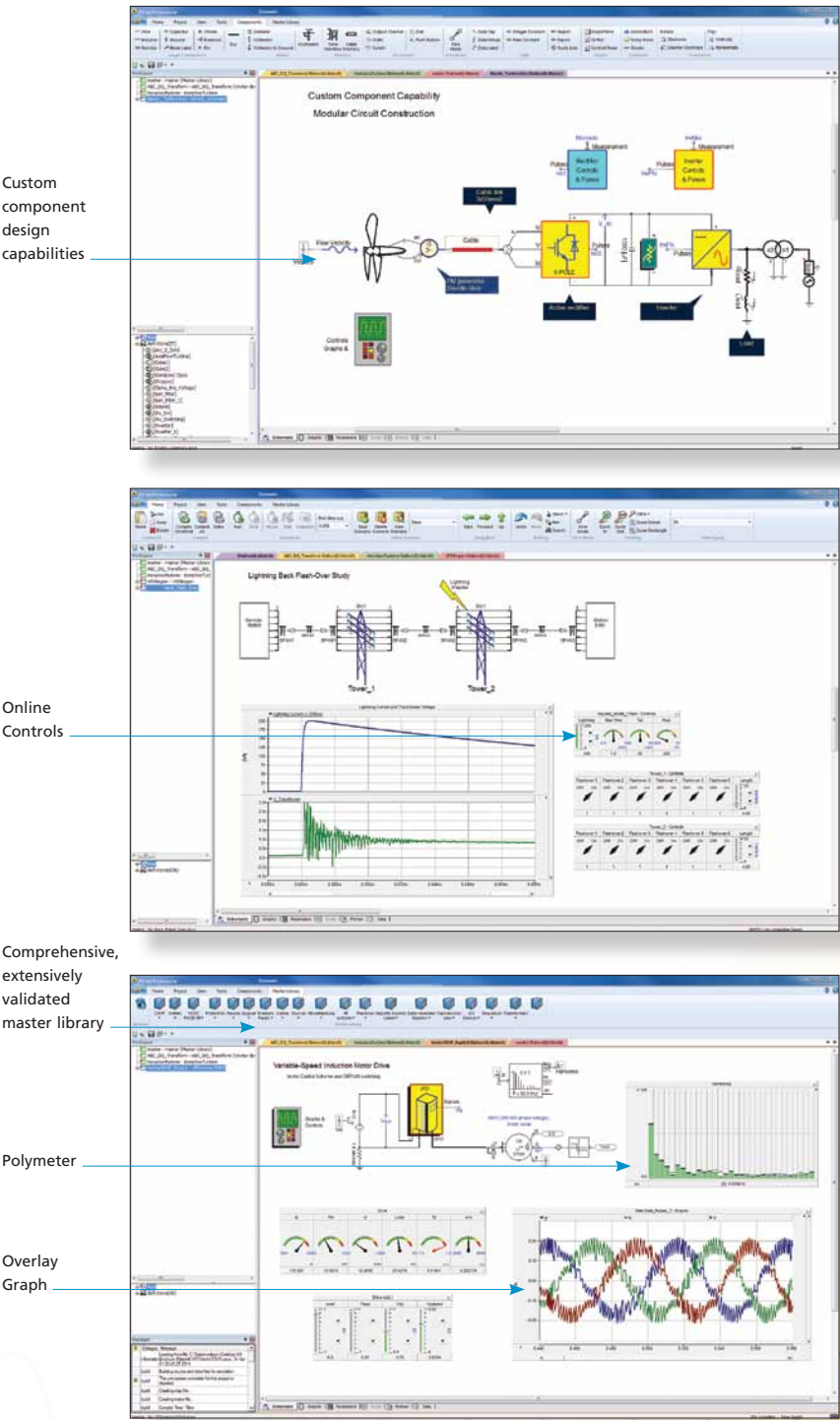
PSCAD

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.

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.



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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