



# ePHASORSIM | Electro-Mechanical Phasor Toolbox Customers

ePHASORSIM is a solution for projects that involve power system transient stability simulation. It is used in the testing and integration of EMS/SCADA systems, wide area protection and control schemes, and for training and power system studies. ePHASORSIM's solver simulates a power grid at a time-step of a few milliseconds to provide transient stability simulation analysis, such as voltage/current magnitude and angle, power transfer, speed of machines. This unique electromechanical transient real-time simulation system enables precise simulation of large-scale networks to perform hardware-in-the-loop (HIL) testing.

## PROUD USERS OF ePHASORSIM

### North America

#### USA

- Argonne National Laboratory
- California State University
- Clarkson University
- Clemson University
- Dominion Energy
- Eaton Corporation
- Florida State University
- Global Energy Interconnection Research Institute North America (GEIRINA)
- GE Energy Management
- Hawaii Natural Energy Institute
- Idaho National Laboratory
- Iowa State University
- Lawrence Berkeley National Laboratory
- Michigan Technological University
- MIT Lincoln Laboratory
- National Renewable Energy Laboratory (NREL)
- Naval Facilities Engineering Command (NAVFAC)
- Nebraska Applied Research Institute (NARI)
- New York Power Authority
- North Carolina State University
- Oak Ridge National Laboratory
- Ohio State University
- Oregon State University
- Pacific Northwest National Laboratory
- Rensselaer Polytechnic Institute
- Sandia National Laboratories
- Siemens Corporate Technology, Princeton
- South Dakota State University
- Southern Company
- Texas Tech University
- Tuskegee University
- University of California
- University of Central Florida
- University of Florida
- University of Illinois at Urbana-Champaign
- University of Maryland
- University of Minnesota
- University of Tennessee, Chattanooga

- University of Tennessee, Knoxville
  - University of Texas at San Antonio
  - University of Wyoming
  - Virginia Tech
- #### CANADA
- Concordia University
  - Memorial University of Newfoundland
  - Opus One Solutions
  - University of Alberta
  - University of British Columbia
- #### MEXICO
- Universidad Michoacana de San Nicolás de Hidalgo (UMSNH)
  - Cinvestav Guadalajara
  - Universidad Nacional Autónoma de México (UNAM)

### Latin America

- #### BRAZIL
- CEPEL
  - Federal University of Santa Maria (UFSM)
  - University of Brasília (UnB)
- #### CHILE
- Universidad de Concepción
- #### COLOMBIA
- XM
- #### COSTA RICA
- Universidad de Costa Rica
- #### ECUADOR
- Escuela Superior Politécnica del Litoral (ESPOL)
  - Operador Nacional de Electricidad CENACE

### Middle-East & Africa

- #### SOUTH AFRICA
- University of Cape Town (UCT)
- #### QATAR
- Texas A&M University at Qatar





**OPAL-RT**  
TECHNOLOGIES

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## PROUD USERS OF ePHASORSIM

### Europe

#### CROATIA

Strossmayer University of Osijek

#### CYPRUS

KIOS Research Center

University of Cyprus (KIOS)

#### DENMARK

Aalborg University (AAU)

#### FINLAND

University of Vaasa

#### FRANCE

G2ELAB SYREL

#### GERMANY

CAU Kiel

Fraunhofer IEE

Fraunhofer IOSB

OFFIS

Ostfalia Hochschule

Otto-von-Guericke-Universität

RWTH Aachen University

Technical University Dortmund

Technische Hochschule Mittelhessen

Technische Universität Ilmenau

Universität Duisburg Essen

Universität of Stuttgart

Universität Rostock

University of Kassel

#### HUNGARY

Budapest University of Technology and Economics

#### IRELAND

University College Dublin

#### ITALY

EURAC

Politecnico di Torino

#### NORWAY

SINTEF

University of Agder

#### PORTUGAL

R&D NESTER

#### SPAIN

Instituto Tecnológico de la Energía (ITE)

Universidad de Loyola

National Renewable Energy Centre (CENER)

#### SWITZERLAND

École Polytechnique Fédérale De Lausanne (EPFL)

Zurich University of Applied Sciences (ZHAW)

#### UNITED KINGDOM

Brunel University London

GE Grid solutions

Imperial College London

Newcastle University

University of Sheffield

University of Sussex

### Asia-Pacific

#### AUSTRALIA

La Trobe University

University of Adelaide

University of New South Wales

#### BANGLADESH

Chittagong University of Engineering & Technology

#### CHINA

China Electric Power Research Institute (CEPRI)

Northeast Dianli University

Wuhan University

#### HONG KONG

The Hong Kong Polytechnic University

#### INDIA

Indian Institute of Technology Delhi

Indian Institute of Technology Kanpur

Indian Institute of Technology Patna

#### JAPAN

Nagoya Institute of Technology (NITECH)

Tokyo City University (TCU)

#### MALAYSIA

TNB

Universiti Tenaga Nasional

#### SOUTH KOREA

Gwangju Institute of Science and Technology

Korea Electrotechnology Research Institute

#### TAIWAN

Institute of Nuclear Energy Research (INER)

National Applied Research Laboratories (NARL)

National Central University

National Tsing Hua University

