



4th International Conference on
**Integration of
 Renewable and Distributed
 Energy Resources**
 December 6–10, 2010
 Albuquerque, NM USA

Tutorial: The OpenDSS Application

Date: Monday, December 6, 2010

Time: 1:00 pm to 5:00 pm

Cost: \$100/person thru the end-October, \$125/person after October

Tutorial Registration Limit: None

Description: The OpenDSS software program is an open-source simulation tool for better understanding distributed energy resources (DER) and storage interactions with the power distribution system. It has been used for more than a decade in support of dozens of research and consulting projects requiring distribution system analysis. EPRI has made the tool open source to cooperate with other open source projects in Smart Grid and grid modernization efforts and to spur advancements in these important research areas.

This tutorial is an introduction to the OpenDSS software program. You will learn how to acquire and install the program, as well as the basics surrounding how to script the solution engine to perform simulations of time-varying DER connected to distribution systems containing voltage regulators, switched capacitors, etc.

Agenda:

| Time | Topic | Description |
|------------------|---------------------|--|
| 01:00 – 01:30 pm | Introduction | Introduction to the tool and its capabilities |
| 01:30 – 02:00 pm | Getting Started | Installation and basic usage |
| 02:00 – 02:30 pm | Scripting Basics | Syntax and organizing your scripts |
| 02:30 – 03:00 pm | Modeling Basics | Description of basic circuit elements, bus models, etc. |
| 03:00 – 03:15 pm | Coffee Break | |
| 03:15 – 03:45 pm | Questions I get ... | Discussion of frequently-asked questions |
| 03:45 – 04:30 pm | Examples | Example results from previous studies and live demos |
| 04:30 – 05:00 pm | Advanced Topics | Intro to the COM interface and demonstration of EPRI's DGScreeener program that uses the interface |
| 05:00 | Adjourn | |

For more information: Roger Dugan, Sr. Technical Executive, EPRI, (865) 218-8074, rdugan@epri.com.

To register for this event: <http://www.4thintegrationconference.com/register.asp>

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