

About the Course:

Utilize this training to effectively complete an energy assessment for your project. Learn how to complete a power flow study for optimizing your project.
Add DER and simulate designs to test your design against the power model.

Why You Should Attend:

Microgrids and Distributed Energy Resources have moved from concept and testing to part of our energy future. The ability to model an effective microgrid is in high demand. Whether you are tasked with an initial assessment for the reliability, resiliency, or economic benefit of a microgrid or you are an engineer wanting to enhance your skill set for this growing market, this course will be a great benefit.

Power Analytics works with clients all over the world. We have modeled 100's of microgrids. As the number of projects grows into the 1000's annually, the skill set to effectively model these systems is in very high demand.

Topics:

Introduction

Application

Types of Microgrid

Typical New Microgrid Requirements

Smart Microgrids

Implementation Challenges

Process flow

Micro Grid Energy Management Requirements:

Micro Grid Energy Management Software

Micro Grid Energy Economical Management

Standards and Local Regulations

IEEE Standards (Family of 1547 IEEE Standards)

- IEEE Standard 1547.7 -2013 - DR Impact Studies
- IEEE Standard 1547 -2003 - Interconnecting DR with EPS Requirement



Microgrid and Distributed Generation Training for DesignBase (Course #MG-101)



- IEEE Standard 1547.4 -2011 - Re: Design, Operation, Integration of DR Island system with EPS
- IEEE Standard 2030 -2011 IEEE Guide for Smart Grid

DesignBase Software

Microgrid Practical Examples Analyzed using DesignBase

Conventional Studies

Load flow, Short Circuit, Protective Device Coordination (PDC) Arcflash

Power Quality: Harmonics, Flicker, Filtering

Transient Stability and Motor Starting

Economic Modeling in Real Time

Course Fees and Registration:

Please Contact JGarcia@PowerAnalytics.com to reserve your spot! (Accommodation information will be provided at time of registration)
9208 Falls of Neuse, Suite 215
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Training rates: \$4,000/per person



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