

CYME power engineering and analysis software

Brightlayer Utilities suite

CYME Users Group Meeting 2023

Agenda

Friday, June 9, 2023 – Le Westin Montreal

Additional Training (optional)

All activities (8th floor)

7:30 am – 8:30 am	<i>Full breakfast buffet - Grande Place (8th floor)</i>	
	Training 1 <i>Ste-Hélène room</i>	Training 2 <i>Beaver Hall room</i>
Session 1 8:30 am – 10:00 am	Load Modeling & Estimation (Part 1)	Application customization
10:00 am – 10:30 am	<i>Refreshment break</i>	
Session 2 10:30 am – 12:00 pm	Load Modeling & Estimation (Part 2)	DER studies
12:00 pm – 1:00 pm	<i>Lunch (Grande Place (8th floor))</i>	
Session 3 1:00 pm – 2:30 pm	Time-series analyses with energy storage	Cable ampacity calculations using CYMCAP
2:30 pm – 3:00 pm	<i>Refreshment break</i>	
Session 4 3:00 pm – 4:30 pm	Protective device analysis: Tips and Tricks to avoid blowing a fuse	Load flow and automation with Python

Training: hands-on course on the use of CYME software. A computer is provided for each participant.

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Session 1 – 8:30 am to 10:00 am

<i>Ste-Hélène room</i>		Load Modeling & Estimation: What's Behind This Spot Load Symbol? (Part 1)
Training 1 CYME 9.3	Various load estimation techniques are possible depending on the available data: field measurements, transformer size, AMR data, etc. Which one(s) to use and how? Is a primary model still sufficient? How to handle DG beyond the meter?	
<i>Beaver Hall room</i>		Application Customization – Tailor CYME to Your Reality
Training 2 CYME 9.3	The CYME software UI is renowned for its versatility, but rare are the opportunities to explore its realm of possibilities. Learn to master the tools enabling you to adapt the software to your reality and get the most out of what it has to offer.	

Session 2 – 10:30 am to 12:00 pm

<i>Ste-Hélène room</i>		Load Modeling & Estimation: What's Behind This Spot Load Symbol? (Part 2)
Training 1 CYME 9.3	<i>Part 2 – Two-part session continued from Part 1 in Session 1 at 8:30 am.</i>	
<i>Beaver Hall room</i>		DER Studies: determining capacity, analyzing impact, and verifying islanding
Training 2 CYME 9.3	In the context of the ever-increasing DER penetration level and general popularity, discover how CYME analyses modules help assessing the hosting or integration capacity of your system. The deployment of new technology on the distribution grid, such as generation, storage and demand-side management, brings new possibilities of capacity issue mitigation and increased reliability with microgrids.	

Session 3 – 1:00 pm to 2:30 pm

<i>Ste-Hélène room</i>		Time-series analyses with energy storage
Training 1 CYME 9.3	Energy storage can act as a load or a generator on the system so how should you consider it in your studies? See how CYME can analyze both charging and discharging states as well as optimize energy storage usage using time-series analyses.	
<i>Beaver Hall room</i>		Cable Ampacity Calculations Using CYMCAP
Training 2 CYMCAP 8.2	Demystify cable ampacity calculations and see how CYMCAP can help you with duct bank analysis. This workshop will go over the background theory, walk you through practical examples and introduce the latest enhancements to the software.	

Session 4 – 3:00 pm to 4:30 pm

<i>Ste-Hélène room</i>		Protective Device Analysis: Tips and Tricks to Avoid Blowing a Fuse
Training 1 CYME 9.3	Learn how to use all available tools for protection coordination studies such as the device margins, analysis report, fast adjust, margin anchor, opening time and criteria input. Modeling, manual, and automatic verifications as well as results interpretation will be explored.	
<i>Beaver Hall room</i>		Load flow and automation with Python
Training 2 CYME 9.3	The load flow is the main analysis tool for the design, planning and operation of electrical power systems. Together, we will explore the simulation parameters, calculation options and equipment modeling. Then we'll see how to use the cympy library to get results and reports in an automated manner.	