

# CYME Users Group Meeting 2022

## Breakout sessions

Thursday, June 16, 2022 – Le Westin Montreal

All activities (8th floor)

7:30 am – 8:30 am *Full breakfast buffet - Grand Place (8th floor)*

	<b>Basic Training</b>	<b>Advanced Training</b>	<b>Innovation</b>	<b>Promotion</b>
8:30 am – 10:00 am	<i>Ste-Hélène room</i>	<i>Beaver Hall</i>	<i>Palais room</i>	<i>Ramezay room</i>
<b>Session 1</b>	Load Modeling & Estimation: What's Behind This Spot Load Symbol? (Part 1)	DER Studies: Determining Capacity, Analyzing Impact and Verifying Islanding	Web Application for Low-Voltage Estimation	CYME Gateway – Beyond the Creation and Update of Your Network Model

10:00 am – 10:30 am *Refreshment break*

	<i>Ste-Hélène room</i>	<i>Beaver Hall</i>	<i>Palais room</i>	<i>Ramezay room</i>
10:30 am – 12:00 pm				
<b>Session 2</b>	Load Modeling & Estimation: What's Behind This Spot Load Symbol? (Part 2)	Load Flow Analysis – Essential Skills to Become an Expert	Fault analysis on circuits with high inverter-based DER penetration	CYME Solutions – Add value to your existing CYME deployment

12:00 pm – 1:00 pm *Lunch - Grand Place (8th floor)*

	<i>Ste-Hélène room</i>	<i>Beaver Hall</i>	<i>Palais room</i>	<i>Ramezay room</i>
1:00 pm – 2:30 pm				
<b>Session 3</b>	Long-Term Planning: Tools to Tackle the Challenges Ahead (Part 1)	Fault Analysis – Beyond the Conventional Short-Circuit	Stochastic Analysis for Behind-the-Meter Technologies	CYME Cable Thermal Rating: When CYMCAP meets CYMDIST

2:30 pm – 3:00 pm *Refreshment break*

	<i>Ste-Hélène room</i>	<i>Beaver Hall</i>	<i>Palais room</i>	<i>Ramezay room</i>
3:00 am – 4:30 pm				
<b>Session 4</b>	Long-Term Planning: Tools to Tackle the Challenges Ahead (Part 2)	Time-Series Analyses with Energy Storage	Under the hood: A deep dive into the CYME Software's modelling and analysis improvements	CYME Advanced Distribution Planning Solution - Next-Gen Grid Planning

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

**Promotion / Innovation:** presentation on different topics related to the CYME software and solution portfolio. The use of a computer is not encouraged.



Powering Business Worldwide

**Session 1 – 8:30 am to 10:00 am**

<i>Ste-Hélène room</i>		<b>Load Modeling &amp; Estimation: What's Behind This Spot Load Symbol? (Part 1)</b>
Basic Training	Software version: CYME 9.2	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 nowadays? How to handle DG beyond the meter? <i>This is a two part session. Be sure to select Part 2 in Session 2 at 10:30 am.</i>
<i>Beaver Hall</i>		<b>DER Studies: Determining Capacity, Analyzing Impact and Verifying Islanding</b>
Advanced Training	Software version: CYME 9.2	The load flow is the main analysis tool for the design, planning and operation of electrical power systems. Together, we will explore how simulation parameters, calculation options and equipment modeling will impact your results.
<i>Palais room</i>		<b>Web Application for Low-Voltage Estimation</b>
Innovation		Get engaged in the process of evolving a minimum viable product into a one-size-fits-all commercial product. What does the current application do? It brings the strength of CYME's modeling and analysis capabilities to a safe design environment that's quick and easy to use for low voltage design of customer line extensions. Please come prepared to participate and share your thoughts!
<i>Ramezay room</i>		<b>CYME Gateway – Beyond the Creation and Update of Your Network Model</b>
Promotion		Electrical network model accuracy is crucial to your system planning. The CYME Gateway solution enables utilities to automatically create and maintain the engineering model up-to-date. Learn about additional features offered by the CYME Gateway, such as integration with multiple enterprise systems, automated calculations, advanced validation, etc.

**Session 2 – 10:30 am to 12:00 pm**

<i>Ste-Hélène room</i>		<b>Load Modeling &amp; Estimation: What's Behind This Spot Load Symbol? (Part 2)</b>
Basic Training	Software version: CYME 9.2	<i>Part 2 - Two part session continued from Part 1 in Session 1 at 8:30 am.</i>
<i>Beaver Hall</i>		<b>Load Flow Analysis – Essential Skills to Become an Expert</b>
Advanced Training	Software version: CYME 9.2	The load flow is the main analysis tool for the design, planning and operation of electrical power systems. Together, we will explore how simulation parameters, calculation options and equipment modeling will impact your results.
<i>Palais room</i>		<b>Fault analysis on circuits with high inverter-based DER penetration</b>
Innovation		The behavior of inverter-based distributed energy resources (IBDER) and rotating machines differs significantly under fault conditions. As the penetration levels of IBDG keep increasing, precise and efficient IBDER fault models are becoming imperative to ensure that distribution systems are still operated safely and reliably. Novel detailed steady-state IBDER fault models are presented in this session.
<i>Ramezay room</i>		<b>CYME Solutions – Add value to your existing CYME deployment</b>
Promotion		Your CYME implementation has some untapped potential you can leverage to improve your business processes. Whether hosting capacity analysis, interconnection request screening, or secondary distribution assessment challenge your organizational capability, CYME has an added value solution in line with your business needs.

**Session 3 – 1:00 pm to 2:30 pm**

<i>Ste-Hélène room</i>	<b>Long-Term Planning: Tools to Tackle the Challenges Ahead (Part 1)</b>
Basic Training Software version: CYME 9.2	The analyses of the CYME software lie at the hearth of the long-term planning process. Discover how the Advanced Project Manager, the Automated Network Forecast and other related analyses can help you better plan the evolution of your distribution system. <i>This is a two part session. Be sure to select Part 2 in Session 4 at 3:00 pm.</i>
<i>Beaver Hall</i>	<b>Fault Analysis – Beyond the Conventional Short-Circuit</b>
Advanced Training Software version: CYME 9.2	Want to deepen your knowledge of short-circuit analysis? This workshop will glance over the analysis parameters and present useful tools such as device monitoring, fault locator, series and simultaneous faults, analysis templates, batch analysis, etc.
<i>Palais room</i>	<b>Stochastic Analysis for Behind-the-Meter Technologies / Data Analytics for Improved Engineering Analysis Models</b>
Innovation	Voice of Customer A - To plan for behind-the-meter technology deployments such as EV, demand response, etc. can be very challenging using traditional methods. CYME has been working with a utility partner on the development of a stochastic analysis that leverages AMI data, socio economic data, technology profiles and load profiles to produce risk-based grid KPIs on asset loading and system voltage. Voice of Customer B - Are you facing data quality issues? How much time are you spending on manual cleansing of your models? CYME would like to learn more about your current and near-term pain points as we have started to explore data-driven model calibration to improve model accuracy and completeness. Please come share your requirements and thoughts to help us shape the future of your CYME software.
<i>Ramezay room</i>	<b>CYME Advanced Distribution Planning Solution - Next-Gen Grid Planning</b>
Promotion	Several distribution utilities have embarked on a planning framework modernization effort to cope with the challenges of the energy transition. The CYME Advanced Distribution Planning Solution (ADPS) is the first and only planning solution that bridges the gap between the traditional peak planning approach and the essential requirements of modern power grids. With the development of a comprehensive time-series-based grid planning solution, CYME aims at supporting utilities in their journey towards a carbon-neutral energy system.

**Session 4 – 3:00 pm to 4:30 pm**

<i>Ste-Hélène room</i>	<b>Long-Term Planning: Tools to Tackle the Challenges Ahead (Part 2)</b>
Basic Training Software version: CYME 9.2	<i>Part 2 - Two part session continued from Part 1 in Session 3 at 1:00 pm.</i>
<i>Beaver Hall</i>	<b>Time-Series Analyses with Energy Storage</b>
Advanced Training Software version: CYME 9.2	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>Palais room</i>	<b>Under the hood: A deep dive into the CYME Software's modelling and analysis improvements</b>
Innovation	Our Power Systems Engineering (PSE) team continuously works on analyses, device models, and calculation engines to improve their efficiency, extend their capabilities, and support new components. Several improvements that were made in the last few years and more that are planned in the near future are discussed in this session by members of the PSE team.
<i>Ramezay room</i>	<b>CYME Cable Thermal Rating - When CYMCAP meets CYMDIST</b>
Promotion	Power cable installations are a critical component of today's electrical grid. Our Cable Thermal Rating module is a powerful tool to efficiently model and analyse underground cable installations. Join us in this presentation to get an overview of the required steps to determine the ampacity of your underground cable installations, evaluate temperature rise scenarios and understand the main factors of influence, directly in the CYME Software.