



From Reservoir to Reality: Inside Quarry Park Energy Solutions

Presenter: Greg Maidment

Quarry Park Energy Solutions (QPES) is a new industry facing applied energy research organization built on more than 50 years of Canadian energy research, specialized infrastructure and technical expertise.

Operating from the 40,000 square foot Imperial Energy Innovation Centre in Calgary, QPES was established following Imperial's historic \$37 million donation of its research facility to SAIT, the largest corporate gift to a post-secondary institution in Alberta. The transition created something unique: a major industrial research facility, developed over decades to solve real energy production challenges, now available to a much broader Canadian and international innovation community.

This webinar will take participants inside QPES and explore the people, equipment and projects behind its growing applied research program.

QPES brings together specialized laboratories, experienced researchers and physical modelling capabilities that allow energy technologies to be tested under realistic reservoir and operating conditions before companies take them to the field. Capabilities include enhanced oil recovery and thermal recovery, combustion tubes and in situ combustion, high pressure physical modelling, PVT and fluid characterization, core and rock fluid analysis, oil sands extraction, tailings and polymer performance, steam generation and water chemistry, materials testing and advanced analytical capabilities.

The same infrastructure and expertise developed through decades of oil sands and heavy oil research is increasingly being applied to the next generation of subsurface energy challenges. QPES is building programs spanning carbon capture and storage, CO₂ enhanced recovery, geothermal energy, direct lithium extraction, natural and engineered hydrogen, energy storage, materials and integrated energy systems.

Participants will also hear how QPES approaches industry collaboration. Rather than stopping at academic research, the organization is designed to help companies move technologies toward deployment through experimental design, independent testing, physical modelling, technology validation and decision ready data.

The webinar will highlight examples of current research, introduce the scientists and technical specialists behind the work, and provide a look inside some of the unusual experimental infrastructure available at the Imperial Energy Innovation Centre.

At its core, QPES represents the convergence of Canada's deep expertise in subsurface energy, industrial scale research infrastructure and a new model for industry accessible applied research.

For technology developers, producers, service companies, investors and researchers working across the energy sector, the session will provide a practical look at what can be tested today, what new capabilities are being developed and how companies can work with QPES to move an energy idea from the laboratory toward the field.