

ENERGY AND ENVIRONMENTAL ECONOMICS, INC.

Calgary, AB

Director and Canadian Office Head

Mr. Mueller is a Director in the Asset Valuation practice area at E3 in addition to leading the Canadian office based out of Calgary. His practice has an emphasis on the value of new and existing resources and resource portfolios under evolving markets in the energy transition. Recent projects include supporting system planners in Manitoba evaluating deep decarbonization scenarios, Yukon Energy analyzing attributes of emerging technologies on and islanded system, developing a DER roadmap for Alberta, and a California-wide evaluation of high value sites for a long-duration storage. In addition, he leads market design and Canadian litigation projects, having appeared before the National Energy Board multiple times.

Additional recent projects include:

- Led the development of E3's Strategic Planning Toolkit, which supports senior and board-level decision making based on the integrated nature of natural gas and electric systems and decarbonization. The toolkit evaluates multiple decarbonization scenarios, focusing on end use electrification and customer adoption, to determine investment and affordability futures for both integrated utilities and jurisdictions with differentiated gas and electric service providers.
- Led market forecasting for a Canadian client looking at a U.S. wide portfolio of independently owned natural gas resources across jurisdictions with varying levels of electric system decarbonization policy (2024)
- Led strategic planning and capital forecasting for an integrated gas and electric utility, working with the C-Suite and Board of Directors to identify future investment opportunities and critical policy levers affecting system operations and capital deployment (2023)
- Led a new market entrant opportunity analysis of the Colorado market focusing on offtaker evolution, transmission topology, and asset benchmarking (2022)
- Led market forecasting for a Canadian client looking at a U.S. wide portfolio of independently owned resources (2022)
- Supported a confidential client in the procurement of \$10M+ of solar and storage PPAs in California by evaluating project economics and risks (2021)
- Led the technical due diligence for a confidential client in their successful acquisition of a US electric and gas utility with an investment of \$2B+ (2021)
- Guides career growth for E3's Asset Valuation team through direct management and project staffing

CANADIAN ASSOCIATION OF PETROLEUM PRODUCERS (CAPP)

Calgary, AB

Manager, Supply and Transportation

November 2015 – June 2019

- Facilitated a year-long negotiation with TransCanada through insightful market analysis, tactical government relations, and risk identification, resulting in the largest discounted transportation

service for natural gas in Canada and a \$4B+ commitment from over 20 Canadian natural gas producers

- Recommended, built, and led a working group of C-suite and senior leadership from power generators and natural gas producers. Successfully removed roadblocks for coal-to-gas conversion of existing electrical assets including new natural gas transportation options. Accelerated the timeline for conversion of coal generation assets and increasing market demand of natural gas.
- Lead negotiator for a team of 30+ organizations on Canadian natural gas pipeline issues. Successfully generated, and then chosen to lead, strategies by industry colleagues. Proven success as lead negotiator on:
 - \$6B+ in revenue requirements on multiple pipelines through multi-year deals
 - A complete overhaul of the NGTL pipeline rate design and service offering, resulting in increased market efficiency, improved price signals, and increased producer flexibility
- Recipient of CAPP CEO Leadership Award (given to 1-2 employees annually) three out of six years

Analyst, Natural Gas Markets and Transportation

March 2013 – November 2015

- Testified before the National Energy Board on behalf of industry resulting in the mandated development of consumer protection programs for Canadian natural gas markets
- Fully rebuilt the long-term CAPP forecast to increase accuracy and granularity including increased North American analytics

CGGVERITAS, INC.

Oslo, NORWAY

Project Leader

January 2009 – November 2010

- Successfully led a major client engagement focusing on innovative technological solutions under strict deadlines due to external drilling schedules and regulatory constraints
- Increased project revenues by 100% through organizing, writing, and delivering a training program for five clients on the use of 4D technology in oil and gas exploration; increased repeat business due to strengthened relationships
- Led a multinational team generating exceptional client satisfaction through constant and open communication and goal-oriented delegation
- Awarded “Best in Class” by client based on outperforming industry benchmarks for technical expertise and customer service while discovering unique solutions; led to future contracts secured from client

London, ENGLAND

Geophysicist

September 2007 – January 2009

- One of six international recruits to a fast-track management program due to a proven history of leadership and quantitative abilities
- Entrusted with client facing responsibilities within 4 months, 100% faster than company average

QUEEN'S UNIVERSITY

Kingston, ON

Geophysical Research Assistant

Summer 2006

Education

University of British Columbia
Master of Business Administration

Vancouver, BC
2012

Queen's University
B.Eng., Applied Science, Geophysics

Kingston, ON
2007