Chris Herman

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ENERGY AND ENVIRONMENTAL ECONOMICS, INC.   Calgary, AB
Managing Consultant

Chris Herman joined E3 in 2022 and will support E3's work in asset valuation and markets. He has 15 years of experience in the energy industry during which has led and supported advanced financial modeling, electricity price forecasting, load prediction, and project valuation. He has worked on a broad range of projects including carbon policy economics, load forecasting, coal to gas conversion of US generating stations, business development for CNG/LNG applications, pipeline tolling arrangements, and data warehousing and transformation. He joined E3 from Heartland Generation where he provided leadership with economic outlooks for the Alberta electricity market, focusing on evaluating the operational and financial impacts of a broad range of potential carbon policy outcomes. Chris earned a B.A. from the University of Calgary in Applied Energy Economics.

HEARTLAND GENERATION   Calgary, AB
Senior Analyst, Forecasting   January 2018 – October 2022

- o Advised Senior Leadership on trends in market fundamentals including carbon policy, load growth, transmission, renewable integration, and long-term supply.
- o Long-term price forecasting for the Alberta electricity market with focus on federal and provincial carbon policy (TIER, OBPS, hybrid systems) to establish a corporate position and portfolio impact.
- o Developed Python/Excel-based machine learning load forecasting models to predict residential, commercial, and industrial loads and weather impacts.
- o Developed Python based applications for transforming and warehousing AESO data in SQL Server databases to enable advanced analytics of historical market performance.

ATCOenergy   Calgary, AB
Senior Analyst – Business Intelligence & Competition   December 2015 – January 2018

- o Led a team of analysts responsible for operations reporting, marketing/competitive intelligence and pricing.
- o Prepared and presented daily and monthly operations reports to senior leadership to keep the team current on customer activity, sales trends and competitor activity.
- o Prepared analyses to identify demographics of existing and potential customer base used to create targeted marketing campaigns.

ATCO POWER   Calgary, AB
Business Analyst – Asset Optimization   June 2015 – December 2015

- o Enhanced, maintained, and developed asset optimization tools in Excel/VBA for the real-time trading desk.

ENCANA CORPORATION   Calgary, AB
Energy Policy Analyst - Strategy and Planning, Natural Gas Economy   June 2012 – February 2015

- o Provided economic valuation as well as presentation materials to communicate project economics for LNG and CNG conversion in various high-horsepower applications including power generation, long haul trucking, rail, marine and mining.
- o Performed in-depth market and spatial analysis in ArcGIS to identify regions in Canada and the US with potential for development of LNG and CNG facilities.

Energy Policy Analyst - Policy and Advocacy USA Division   June 2011 – June 2012

- o Developed coal-to-gas switching models using FERC filings and Ventyx data to estimate the levelized cost of generation for all operational coal-fired generation facilities in the United States

ALTAGAS LTD.   Calgary, AB
Business Development Analyst – Field Gathering & Processing   April 2008 – June 2011

- o Completed economic evaluation of new midstream and downstream capital projects as well as analytical support for current facility modifications, created and maintained AFEs along with cost tracking for new projects during construction.

Education

University of Calgary   Calgary, AB
B.A., Applied Energy Economics   2008