

## Clean Energy Economics

Autocase Economic Advisory supports the clean energy sector by quantifying and valuing decarbonization and electrification strategies, investments in clean energy infrastructure, building and site sustainability certifications, among others. Autocase Economic Advisory is the economic consulting stream of Autocase. Our team of experienced consultants have conducted economic analyses on over \$100 billion worth of projects and successful grant applications, our expertise in clean energy is concentrated in:

### Economic Analyses

- Capital Investment Planning Valuation and Prioritization
- Carbon Life Cycle Analysis
- Cross Asset Strategic Planning
- Cost Benefit Analysis (CBA)
- Econometric Modeling
- Economic Impact Analysis (EIA)
- Financial Life Cycle Cost Analysis
- Geospatial (GIS) Impact Evaluation
- Grant Application Support
- Life Cycle Cost Analysis (LCCA)
- Multicriteria Decision Analysis (MCDA)
- Real Estate Economic Analysis
- Regulatory Economic Analysis
- Resilience Analysis with Climate Change
- Risk Analysis



#### Quantify

- Carbon & Pollutants
- Clean Energy Jobs
- MWh and MW Reduced
- Reliability & Redundancy
- RECs/Carbon Offsets
- Value-at-Risk Reduction

### Sector Knowledge

- Clean Energy Standards
- Building Electrification
- Decarbonization & Net Zero Energy
- Energy Storage
- Environmental, Social & Governance (ESG)
- LEED, WELL, Fitwel & Envision Certifications
- Resiliency & Redundancy

### Valuation Methods

- Ecosystem Services & Natural Capital
- Input-Output Multipliers
- Local Carbon Pricing & Trading
- Macroeconomic Indicators
- Utility Energy Pricing
- Social Cost of Carbon & Air Pollution
- Probabilistic Risk Analysis/Monte Carlo



#### Value

- Cost of Carbon & Air Pollution
- Life Cycle Costs
- Utility Cost Savings
- Tax Credits
- Value-added to GDP



#### Communicate

- Case Studies
- KPIs
- Literature Reviews
- Methodology Reports
- Technical Reports
- Stakeholder Seminars



# Trusted by Industry



Engaged to utilize economic insights as a means to support the Carbon Neutral Buildings Roadmap aspect of the New York Climate Leadership and Community Protection Act (CLCPA) for NYSERDA. The goal was to use economic analysis to provide policy-makers and public stakeholders with quantified metrics to better understand the long-term value proposition relating to decarbonization and targeted investments under building retrofit and new construction scenarios across the State of New York.



In partnership with the Canadian Impact Infrastructure Exchange (CIIX), Autocase Economic Advisory was engaged by the City of Vancouver to evaluate multiple ownership scenarios (third party Fortis BC, joint venture, and City sole ownership) for a renewable natural gas recovery project at the Vancouver Landfill in Delta, BC. The project is designed to recover landfill gas (LFG) generated at the Vancouver landfill, upgrade it then add it to the provincial natural gas (NG) distribution system for use as Renewable Natural Gas (RNG). Our analysis provided the City with quantitative metrics to understand the tradeoffs across ownership structures. [Access the case study.](#)



Engaged by the City of Edmonton to provide a robust economic assessment and decision support for 13 district energy alternatives and various other GHG emissions reduction energy alternatives (such as improving building envelopes and installing rooftop solar PVs) at two major redevelopment sites in downtown Edmonton.



Conducted risk-based life cycle cost and cost-benefit analyses to analyze non-traditional energy generation systems for the Metro Wastewater Reclamation District in Denver, Colorado. Non-traditional energy systems included combined heat power (CHP) systems using extracted biogas, nutrient removal alternatives, effluent temperature regulations, biosolids management systems, a 100 MW wind-farm installation on the District's land, as well as system reliability/redundancy.

Visit our website for more [project experience](#) and [case studies](#).

## About Us

Our team of professional economists conduct rigorous, evidence-based economic analyses of the financial, social, and environmental costs and benefits of sustainable and resilient investments in the infrastructure, real estate, public policy and regulatory worlds.

Our economic analyses help you prioritize investments, understand risks, develop strategic plans, report ESG metrics, secure funding, communicate with stakeholders, support climate equity, and understand the holistic trade-offs of your investments and policies. We provide objective, third-party, data-driven quantitative insights to support you.



Interested in our services? Contact us at:

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