

Energy Audits



A comprehensive energy assessment for
businesses of all sizes





Our Mission



Helping Yield Sustainable Outcomes through Viable, Efficient, Nature driven Technologies

Hysovent is a company founded in late 2021, focused on providing engineering and project management consulting services for renewable energy, energy efficiency and sustainability projects and initiatives. Our name is a combination of the three main sources of renewable energy of the mother nature:

HY: Hydro – the power of water

SO: Sol – the power of the sun

VENT: Ventus – the power of the wind

We provide **engineering and project management consulting services** for institutional, commercial and industrial organizations, for **renewable energy, sustainability and energy efficiency projects and initiatives**, from conceptualization to execution, commissioning and closure, including technical supervision during all stages, quality control of deliverables, operational support, and financial management of the project.

Our experience and extensive professional network can tackle a wide variety of multidisciplinary projects, delivering high quality outcomes for your most complex undertakings.

A handwritten signature in black ink that reads "Javier Ojeda".

JAVIER OJEDA
President & Owner



What is an *Energy Audit?*

An energy audit is a thorough assessment of current energy-use practices to identify how and where energy enters a facility, department, system or equipment, how it is used, and areas where energy can be used more efficiently or effectively to prevent energy from being unnecessarily wasted. Benefits of energy audits include:



1 Cost-Effective Solutions
to lower utility bills

Reduces
Environmental
Impacts **2**



3 Increased Energy
Efficiency

Enhances Corporate
Responsibility and
Community Image **4**



Audit Services

FROM START TO FINISH

Level 1: Walk-Through Analysis

- **Focus:** Identify no-cost and low-cost opportunities for saving energy, establish a baseline for energy use, and prioritize potential energy efficiency projects.
- **Activities:** Involves a walk-through assessment of the facility, analytical review of utility bills and basic operational data.
- **Reporting:** Provides an initial energy model, cost-benefit analysis for tailored base solutions to improve energy efficiency

Level 1

Level 2: Energy Survey & Analysis

- **Focus:** A more detailed and quantitative analysis of a facility's energy use, including potential upgrades and controls.
- **Activities:** A Level 1 audit, plus in-depth data collection, on-site measurements of systems, and detailed financial review.
- **Reporting:** Detailed energy modelling for specific recommendations from operational changes to capital upgrades, including cost estimates and financial analysis.

Level 2

Level 3: Analysis of Capital-Intensive Modifications

- **Focus:** Rigorous engineering and financial analysis for major, capital-intensive investments.
- **Activities:** Comprehensive analysis of all building systems, including extensive data logging and monitoring over a period of time and highly detailed whole-facility energy model.
- **Reporting:** A highly detailed report with technical engineering information, refined cost-benefit analysis, and economic indicators for detailed financial analysis.

Level 3

Audit Process



1

Information Gathering and Audit Planning

Meeting to provide a general overview of audit scope and plan, timeline, requirements, process, expected outcomes, site visits and deadlines.



2

Data Collection, Site Survey & System Measurements

Collect historical energy billings, facility drawings, on-site measurements and walk down for detailed energy use inventory



3

Analysis, Reporting and Recommendations

Analytical review of compiled data for energy modelling completed through RETScreen, comparison of energy usage and savings, financial analysis and capital forecasts for the implementation of different Energy Efficiency Measures and development of tailored solutions and recommendations for energy efficiency alternatives for facilities and operational processes..



4

Review Session

Opportunity for questions regarding reported findings and next steps to be addressed.

Energy Audit Timeline

Level 1

2-3 weeks

Level 2

4-6 weeks

Level 3

6-8 weeks

Building Optimization Program

As part of the Building Optimization Program offered by Efficiency Nova Scotia, your business may be eligible to receive funding of up to \$5,000 to cover the costs of an initial investigation study - in other words, our services come at no cost!

What we will provide:

- Level 1 Energy Audit Including:
 - Energy Models completed through RETScreen
 - Tailored solutions and recommendations for energy efficiency alternatives for facilities and operational processes.
 - Cost-Benefit Analysis for the implementation of different Energy Efficiency Measures on facilities.
 - Emissions Impact Comparison between current operations and recommended energy solutions

Frequently Asked Questions

Q: What information is the owner required to provide for the successful completion of the audit?

A: Utility bills preferably going back three years, or a minimum of one year; All facility drawings (if available), including electrical, mechanical, and civil plans.

Q: How is the overall cost of services determined?

A: Pricing for our energy audit services is determined based on several factors, including the size and complexity of the facility, the scope of the audit, and any additional services required. We offer a range of options to suit different needs and budgets. Some businesses may also be eligible to receive up to \$5,000 in funding from *Efficiency Nova Scotia's* [Building Optimization program](#) for the completion of a Level 1 Energy Audit. For a detailed quote tailored to your specific requirements, or to learn more about the program, please contact our team directly.

Q: How do you access funding from the Building Optimization Program?

A: Please contact *Hysovent* directly and our team can help you to begin the application process by putting you in touch with someone at *Efficiency Nova Scotia* who can assist you in ensuring you have all the necessary documentation and meet eligibility criteria.

Q: How can you help in implementing the recommended practices following the audit?

A: *Hysovent* can function as the owner's engineers and project integrators for the chosen solutions to be implemented and provide services related to energy project management, such as coordination with contractors, and ongoing monitoring to assess the effectiveness of the implemented solutions

Our Energy Efficiency Team



Javier Ojeda

OWNER & PRINCIPLE ENGINEER

Javier, our owner and principal engineer, is internationally certified as a Project Management Professional (PMP), Certified Energy Manager (CEM), and Renewable Energy Professional (REP). With over 20 years of experience in renewable energy, energy efficiency, and hydroelectric power plants, including operations and management of a recent megaproject in Labrador. Javier currently leads our operations for multidisciplinary projects ranging from energy audits to comprehensive overhauls of hydro systems.

OWNER & PRINCIPLE ENGINEER



Maria Elena Blesa Gomez

LEAD ENERGY ANALYST, ENGINEER

Maria Elena has over 5 years of experience and holds certifications as a CEM, RETScreen Expert (CRE), and CMVP. With more than five years in energy audits, RETScreen modeling, and GHG quantifications, she has worked with Natural Resources Canada validating energy models for programs like GICB. Skilled in feasibility studies and financial modeling, she supports our energy audit modeling, adhering to IPMVP standards. Bilingual in English and Spanish, she excels in technical training, net-zero planning, and data analysis.

LEAD ENERGY ANALYST, ENGINEER



Claire Traynor

ENVIRONMENTAL, SUSTAINABILITY, AND REGULATORY COMPLIANCE COORDINATOR

Claire is our lead consultant for environmental management and sustainability, with background in Earth Sciences, Environmental Studies, and Regulatory Policy; certified in environmental impact assessments and communicating sustainability, with proven experience in project management and business development in the environmental sector at AGAT Laboratories. With experience in regulatory processes, environmental compliance, and stakeholder engagement, implementation strategies, data analysis, creating technical reports, and fluency in both Spanish and English, Claire exhibits strong team leadership and problem-solving in collaborative and independent settings,

ESG COMPLIANCE COORDINATOR



Zenahir Alvarado

JUNIOR ENERGY ANALYST

Zenahir is our junior energy analyst with a background in electrical engineering. She is skilled in preventive and corrective maintenance, KPI monitoring, and quality systems adhering to ISO standards. In her current role, she focuses on energy management and efficiency, bringing valuable insights into organizing, reviewing, and analyzing energy bills, and document preparation for ASHRAE Level 1 & 2 energy audits. Zenahir is bilingual, fluent in both English and Spanish, and leads our technical translations services between these languages and in social media management.

JUNIOR ENERGY ANALYST



Jesus Ojeda

SENIOR ELECTRICAL ENGINEERING CONSULTANT

Jesus is our Senior Electrical Engineering Consultant with over 20 years as a Senior Electrical Engineer, he brings extensive expertise in electrical systems and project coordination. He specializes in energy efficiency and energy audits, having developed Energy Efficiency and Savings Studies under ISO 50001:2018 standards for various industrial clients. His experience in reviewing and coordinating complex engineering projects ensures compliance and efficiency, while his leadership and adaptability enhance team collaboration and continuous improvement.

SENIOR ELECTRICAL ENGINEERING
CONSULTANT



HYSOVENT

sustainable engineering



How can we help?

CONTACT US

JAVIER OJEDA
President and Owner

Email: javier@hysovent.com

Phone: +1 (902) 210-6828



Location:

103-287 Lacewood Drive,
Suite 121.
Halifax, NS, B3M3Y7, Canada

Email:

info@hysovent.com

Phone:

+1 (902) 210-6828

Website:

www.hysovent.com