



BUILDING SCIENCE & SUSTAINABILITY



Optimizing the Look and Performance of Your Built Environments.

Pinchin's Building Science & Sustainability team is dedicated to maximizing the performance of one of your most important assets — your built environment. We understand the science behind each building component and how they interact. Pinchin investigates and implements systemic initiatives that help our client's assets become healthier, more durable and more sustainable.

Whether you are constructing a new building or maintaining an existing one, our goal is to improve energy efficiency and building performance, reduce operating costs, minimize environmental impact and enhance occupant comfort. Our decades of experience and scientific knowledge in building physics are part of our foundation in providing superior technical service.

Solving challenges to create more durable, healthier and sustainable buildings.

Building Science Investigations

- Building envelope, thermography, air or moisture leaks, odour or noise issues, HVAC deficiencies, premature failure, root cause analysis, expert witness.

Building Envelope Design for New and Existing Buildings

- Wall cladding, windows, doors, glazing, sealants and roof specifications for maintenance, replacement and upgrades.

Concrete/Masonry Rehabilitation

- Balconies, parking garages, foundation walls, retaining walls, above grade masonry restoration.

Building Condition Assessments

- Property condition assessments, government mandated technical audits, and capital planning assessments.

Capital Planning Consulting

- System by system comparison of repair and replacement costs, with integrated asset sustainability opportunity assessment.

Turn Key Program Delivery & Project Management

- Planning, design specifications, tendering, construction inspection and contract management.

Building Optimization

- Whole building commissioning, system re/retro-commissioning of building envelope, HVAC, mechanical and electrical building systems against original design intent and optimized for current facility use and requirements.

Continuous Commissioning

- Building system sequence of operations review, building automation system tuning and operator coaching to enhance performance.

Green Building & Energy Efficiency Measure Design

- Modeling, analysis, development, HVAC design, and implementation support.

Code Compliance & Building Permit Consulting

- Accessibility, heat loss calculations, permit submittal documents, and drawings.

HVAC Retro-Fit Design - Balancing & Testing

- Air and hydronic balancing, blower door testing and system optimization.

Energy Modeling

- Energy efficiency projects, energy incentive management.

Condominium Management Support

- Tarion Bulletin 19R, reserve fund studies, performance audits.



Heating/Cooling & Ventilation Systems



Electrical Distribution & Generation Systems



Life Safety Systems



Roofing Systems



Window & Door Systems



Parking Structures



Wall Cladding Systems



Balcony Systems

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As a member of The Pinchin Group we offer our services from offices across Canada.
Visit pinchin.com for details and locations.

ENGINEERING, CONSULTING, PROJECT MANAGEMENT AND TRAINING

Building Science & Sustainability

Emissions Reduction & Compliance

Environmental Due Diligence & Remediation

Environmental Laboratory Services (Asbestos, Mould, Legionella, Odour, Radon)

Hazardous Materials (Asbestos, Mould, Lead, Radon)

Indoor Air Quality & Microbial Contamination

Occupational Health & Safety