O'M Engineering Inc.
www.omengineering.ca

Buildings are inert.

But when they are filled with energy, they come alive.

ABOUT O'M ENGINEERING

O'M Engineering provides market leading engineering services for end-user Clients, Developers, and Contractors.

In addition to our tailored electrical design services, O'M Engineering offers a range of related Sustainability Design Services.

We provide Technical, Logical, Cost Effective, and Creatively Efficient solutions for all of the projects we undertake.

Our service offering includes deep industry experience and expertise over several successful design and build solutions for our institutional and commercial clients. It is in scoping, designing and building of community centers, recreational centers and transit infrastructure that we can offer our clients the most efficient and technologically advanced solutions to their construction needs.

Our consulting approaches are based on principles of best practice. We draw on research into cutting edge trends and designs which we test to ensure that we are able to provide our clients with the most innovative, energy efficient and cost-effective solutions to their business requirements.

Relationships built on integrity and delivery of projects, on time and on budget are our priority.

VISION AND MISSION

Our vision is to lead positive change in the Electrical Consulting Industry in Vancouver and Canada, building on, and challenging traditional approaches through the use of innovative technology and out-of-the-box thinking.

Our mission is to be the leading consultants in community based building services design in Canada, through our quest for innovative, energy efficient and cost-effective approaches.

OUR PRINCIPALS

O'M will ensure owner involvement in all of our projects from inception to completion. And we're not afraid to roll up our sleeves and get our hands dirty.

Phil O'Neill, P.Eng., C.Eng., MIEI, LEED Green Associate

Principal

Phil O'Neill holds a Bachelor of Engineering Degree in Electrical Services Engineering, and a Bachelor of Science Degree in Electrical Services and Energy Management. Phil is also a fully qualified Electrician with Merit and is a published author of the book titled; "An Examination of the Energy Used with General Office Lighting".

Phil specializes in relationship marketing, project management, and electrical engineering.

His comprehensive experience covers transportation, mixed use residential, commercial, institutional, educational, light industrial, and tenant improvement projects.

Phil believes delivery, response, quality, and trust, are the key components to an accomplished partnership and successful project

Mo Khan, P.Eng

Principal

As an electrical engineer, Mo has pushed the limits of design and successfully completed more than 250,000 m^2 of corporate head office facilities for major corporations in Canada, South Africa and Africa.

He has now expanded this expertise to include all corporate support facilities, such as training centers, call centers, data centers, treasury divisions and executive suites. In Canada, Mo has gained experience in office buildings, healthcare facilities, aquatic and recreational centers and is making great progress in the transit sector.

Always passionate about Green and Sustainable buildings, Mo strives for further innovation in this sector and has completed several renewable projects for major corporations abroad and for the Federal Government of Canada.

OUR PEOPLE

Our team is both perfectionist and experienced. We value relevant academic qualifications combined with tenacity and a healthy amount of EQ.

Narvir (Nav) Patrola, P.Eng, PMP, LEED AP BD+C

Associate

Nav is an Associate with O'M Engineering. Nav graduated from the University of British Columbia with a degree in Electrical Engineering. As an Electrical Engineering major, Nav had a strong focus on power systems with subject matters including power generation, transmission, and distribution.

He also has experience in power system security and protection, energy management systems, and optimal power flow analysis. He further pursued a diploma in project management from Simon Fraser University.

He believes that a viable project is one which adopts the triple bottom line: social, environmental and financial. It is these aspects of people, planet and profit which flourish his design approach and ultimately aid in the success of the projects he undertakes.

Hira Boparai, BASc

Associate

Hira is an Associate with O'M Engineering. Hira holds a degree in Electrical Engineering from the University of British Columbia and a diploma in Electronic Engineering Technology from the Okanagan University College. He has over 9 years of experience as an electrical designer and as a project manager in consulting engineering.

Hira's deep Industry expertise covers electrical, building and fire safety codes, as well as designing power, lighting, communications, security and life safety systems. His project experience has seen him enter many different sectors of the industry, including research facilities, health care, light industrial, government/military facilities, education, commercial, residential, office, retail and mixed-use.

ABOUT OUR CLIENTS

Our clients want personable and knowledgeable engineers. They want to feel assured that we have the resources to get the work done.

They are motivated by the firm that responds fast, delivers on time and on budget, and that can lead them in the right direction.

O'M Engineering satisfies these needs through our reliable and effective approach to getting things done. We have the right resources and we deliver in a technical and practical manner that works for them.

OUR DIFFERENTIATORS

Our principals are involved at every step of every project.

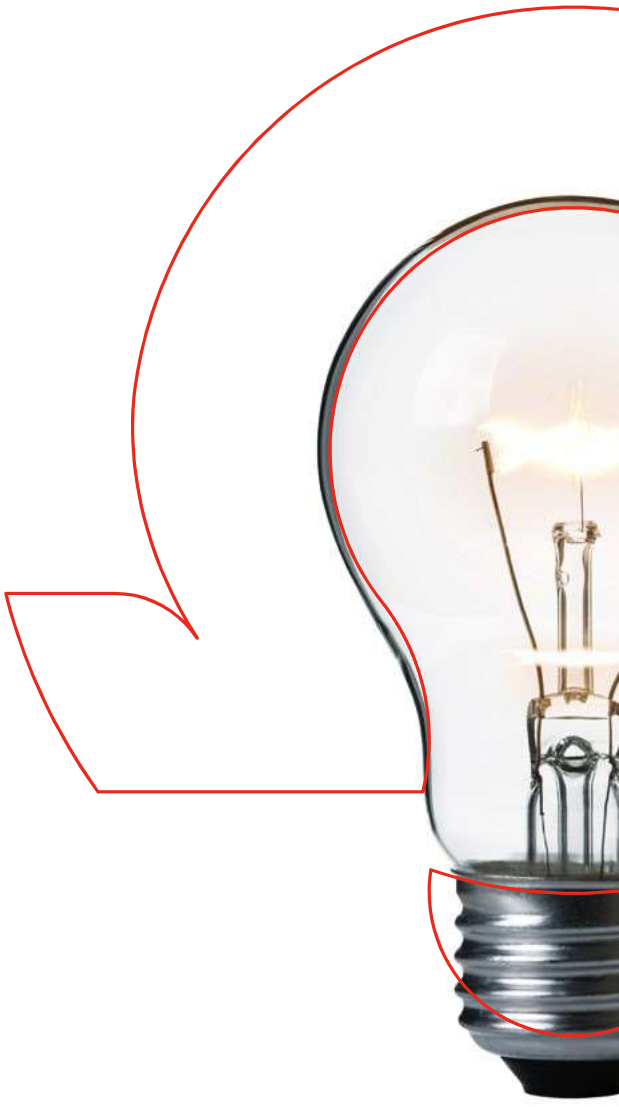
We have special expertise in Skytrain, Transportation, and Transit Facilities

We have a strong focus on sustainable design solutions (Carbon, PV, Carbon Neutral).

We have international exposure in diverse markets.

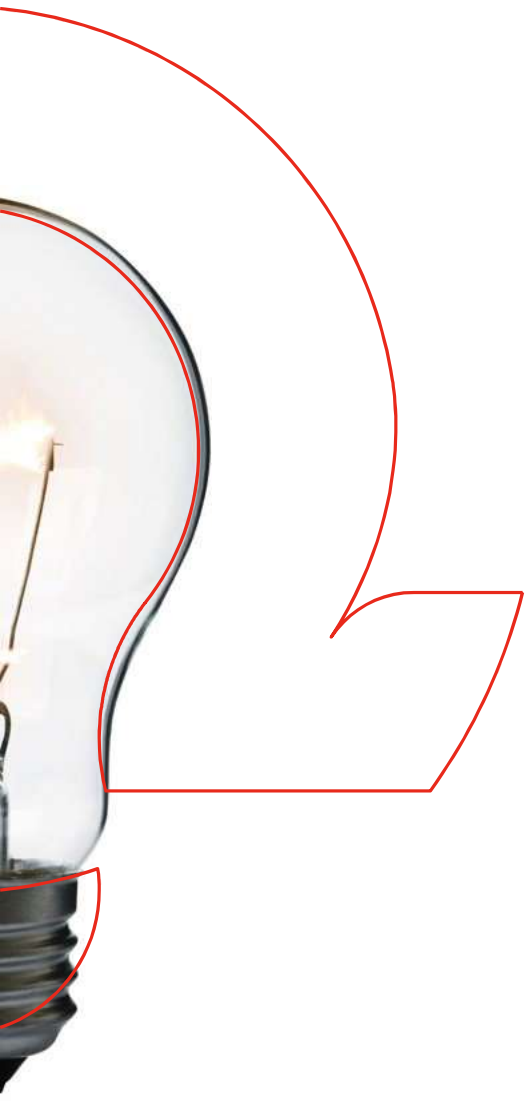
Client Satisfaction is our number one goal

We thrive on building strong relationships with our clients.



Data, heat, air and power flow unseen through our built environments.

When they encounter resistance, they are felt.



ABOUT OUR BRAND

O'M

The ohm (Ω) is the unit of measure of electrical resistance.

Resistance is the aspect of an electrical system that makes it possible to see, hear and feel the effects of electricity.

The creative power of electricity is captured in our logo in the form of the light bulb which has become, since Thomas Edison's *eureka* moment in 1879, the universal symbol for inspiration.

OUR BRAND ESSENCE

POTENTIAL

Energy flows through a system when there is a difference of potential.

While resistance in the system stems flow, it makes energy seen, heard and felt.

O'M seeks to drive progress by enhancing this balance.

OUR BRAND VALUES

PROGRESS

Progress should not come at the cost of sustainability.

True progress should not simply be expressed, but it should be felt.

We believe that the challenge provided by resistance is what allows us to progress.

FLOW

Flow (being in the zone) is the mental state in which a person is fully immersed in and completely absorbed in a process. Flow makes inspired results possible.

We value flow in our work and in the end user's experience of the systems that we create.

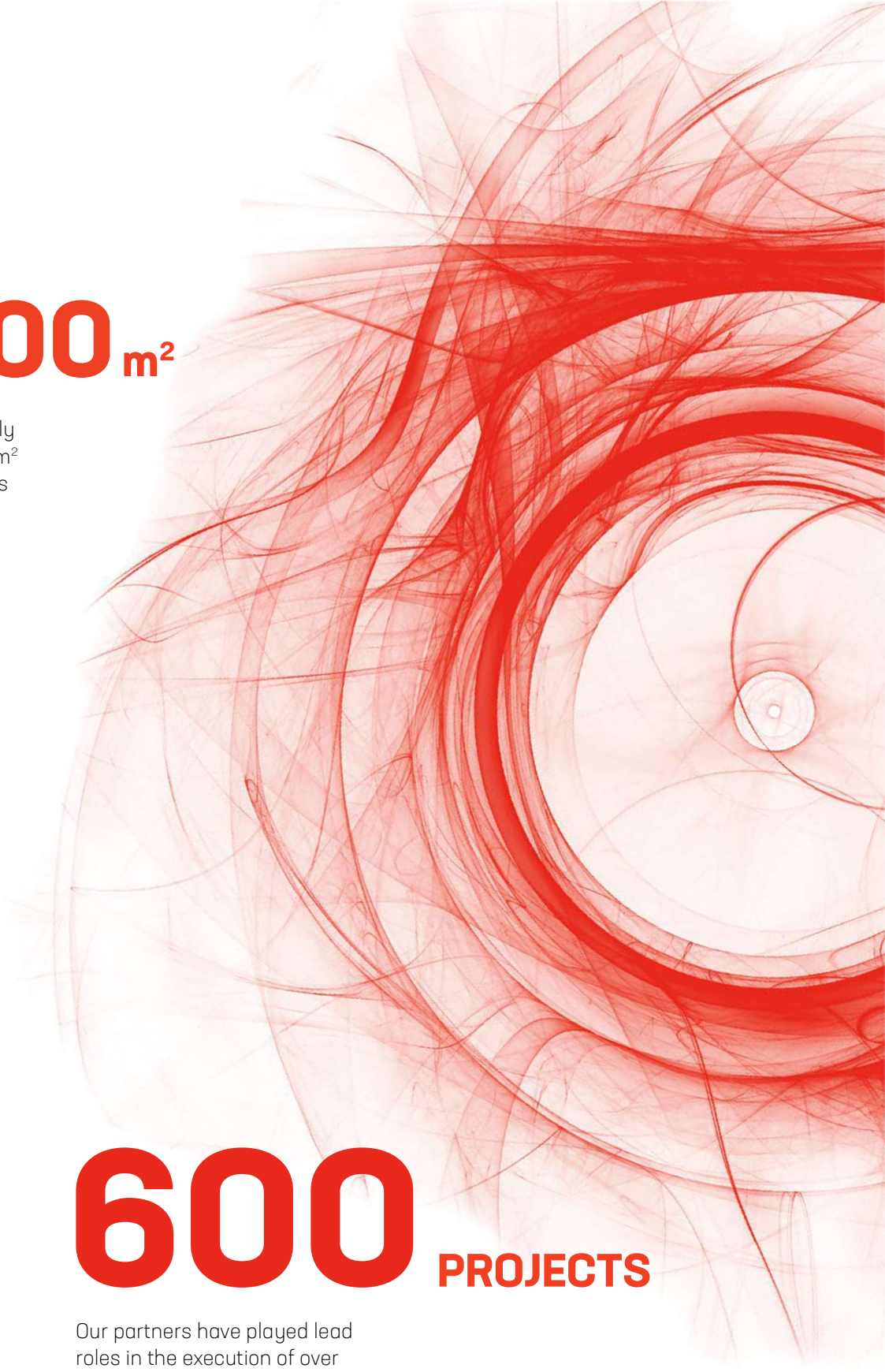
NEVER GIVE UP

Tenacity (specific strength) is a material's strength-to-weight ratio.

O'M demonstrates a remarkable strength-to-weight by performing at a standard that belies its scale because we never give up.

450,000 m^2

Collectively, we have successfully completed more than 450,000 m^2 of corporate head office facilities for major corporations on 4 continents.



600 PROJECTS

Our partners have played lead roles in the execution of over 600 projects touching a range of industries including healthcare, education, heritage, hospitality, residential, corporate and light industrial.

15 COUNTRIES

Our partners have run flagship projects in Canada, Ireland, UK, Australia, South Africa, Zambia, Zimbabwe, Mauritius, Seychelles, Kenya, Uganda, Mozambique, Ghana, Egypt and Botswana.

60 YEARS

Our combined experience spans 60 years and 7 qualifications from major educational institutions.

OUR MARKET

Transportation

Port facilities

Commercial Projects

Mixed-use residential

First Nations communities

Base Building Engineers

Tenant Improvements

Light Industrial

Educational

Healthcare

Data Centers

OUR SERVICES

Lighting and Intelligent Lighting Controls Systems

Fire Alarm Systems

Security Systems

Information Technology Systems
Audio Visual Systems

Elevator Modernization

Mechanical system electrical design

HV/MV/LV Power Distribution

Specialized backup power supplies

Photo-voltaic Designs

RELATED ENGINEERING CONSULTING SERVICES

Project management of electrical installation projects

Due Diligence Reports

Studies

Building condition assessments

Opinions on Code Compliance

BUILDING SERVICES

We offer a complete electrical, electronic and ICT solution. This includes primary, secondary and tertiary electrical reticulation schemes, with full backup power solutions that cater to the requirements of the project. A complete electronic security solution including CCTV, access control, smoke detection, asset tracking and audio visual is also offered. With the ever-increasing dependency on a reliable ICT network, we provide a comprehensive solution, from the complete passive infrastructure to all the active equipment that is essential to a business's operation.

TRANSPORTATION

We take pride in our comprehensive expertise with design of Elevated and Underground SKYTRAIN stations, Transportation station upgrades, Transportation fixed facilities, Specialist transportation projects, including electronic control system interface design for WMS, FLSS, GIMS, BLS and many other associated systems within the SKYTRAIN network control program. Our staff has led and been involved with electrical design, installation, commissioning, and final sign off
for many large scale transportation projects in Canada, Ireland and the UK.

DATA CENTERS

Reliability, resilience and continuity are the key drivers we consider when designing and constructing data centers. We are able to design and construct data centers that comply with the Tier classifications of the Uptime Institute as well as the TIA 942 standards. We offer complete solutions to the following business sectors:

- Financial Institutions
- GSM and Telecommunications
- Broadcast
- Hosting Environments

BUILDING OPTIMIZATION

We take pride in designing energy efficient buildings that are friendly to the environment as well as providing a high level of comfort to their occupants. The result is both increased productivity levels and a low carbon footprint. This
is achieved by utilizing the latest technology available and combining these technologies in unique and innovative ways. Measurement and verification will become an essential part of energy optimization of any building and will become the only means by which stakeholders can measure the level of success of energy efficiency interventions. These strategies can be applied to:

- Existing Buildings
- New buildings
- Data Centers

SUSTAINABILITY, ALTERNATE AND RENEWABLE ENERGY

Alternate and renewable energy must be integrated into buildings of today and all future buildings we construct. It is essential that we begin transforming the way we use energy. With provincial and federal carbon and GHG reduction targets being set and every individual's responsibility to preserve our planet and its resources, we envisage leading the way forward in the deployment of the following schemes:

- Photo-voltaic Installations
- Solar Concentrated hot water plants
- Natural gas in CCHP installations
- Fuel Cell installations
- EV charging installations

If resistance is the cause,
progress is the effect.

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