ADDED VALUE THROUGH INNOVATIONS & EDUCATION
INVESTING IN OUR PEOPLE MEANS SUPERIOR SERVICE FOR OUR CUSTOMERS

Your Single Source for Solar Photovoltaic Construction and Maintenance

Black & McDonald is a privately-owned company that provides an integrated, multi-trade prime contracting service throughout Canada, the United States and Bermuda.

Having provided construction services for 14 solar farms producing over 190 megawatts of power, Black & McDonald is an established leader in Solar Energy construction management and execution.

We believe that our leadership in service begins with how we add value. As a company, we continue to expand our service lines and develop innovative solutions that meet the demands of our customers. We invest in the education and training of our employees to ensure we continue to deliver the very best in management, administration and technical services. Occupational Health & Safety and Environmental Protection remain at the forefront of all our activities and the basis of our policies and work practices.

Black & McDonald’s continuous improvement culture drives our people to listen with care to our clients’ needs and concerns. As strategic partners, we then pro-actively innovate with better solutions, adapting quickly to new challenges with advanced technologies that affect positive business outcomes for them.

In business over 95 years, our people remain proud of our past, advanced in our capabilities, and driven to deserve our reputation.
Leader in Renewable Energy

With over 2000 MW of Solar and Wind Energy construction experience, Black & McDonald is a preferred resource for deployment of renewable energy.

Black & McDonald can self-perform on electrical, utility, mechanical, civil, and asset management services. This has uniquely aligned our core competencies with energy construction and maintenance requirements including Solar, Wind, Thermal, Cogeneration, Hydro, and Nuclear.

Our knowledge, experience, multi-trade capabilities, and trusted resources allow developers to focus their efforts on development and delivery of electricity to the grid. And Owners can focus on their core businesses with peace of mind.

For ground mounted systems and roof mounted systems alike, Black & McDonald’s process assistance and installation expertise are unsurpassable. Our industrial, commercial, institutional, and power generation clients rely on us for mission critical system installations, planned maintenance services, and emergency support.

Our first Photovoltaic Solar Farm completed in 2010 was the world’s largest photovoltaic plant at that time with an installed capacity of 80 MW. Black & McDonald provided the civil and electrical installations. The plant covers 950 acres and contains about 1.3 million thin film panels.
Multi-trade services performed by Black & McDonald’s resources for Solar Farms now include:

**ELECTRICAL AND UTILITY**
- Turnkey installation of all AC/DC components
- Panels, combiner boxes, inverters
- Transformers, switchgear, substations
- SCADA
- Testing, commissioning & start-up

**CIVIL**
- Site preparation: drainage, grading and excavation
- Access roads
- Underground trenching and cabling
- Foundation forming and pouring
- Posts, tilt brackets and racking installation

**PROJECT MANAGEMENT**
- Project implementation
- Site supervision
- Obtaining approvals and permits
- Equipment procurement
- Occupational Health & Safety

**POWER DELIVERY**
- Value added engineering
- Technical liaison with electrical utilities & power system operators
- Fulfillment of system operator and grid requirements
- Electrical grid integration and connection

**IDEALLY POSITIONED TO**
**ASSIST RENEWABLE CLIENTS**
Solar asset maintenance and management

Maximizing your return on investment requires peak performance of major hardware. With integrated construction and maintenance resources across Canada, the U.S., and Bermuda, Black & McDonald’s extensive experience and over 95 years of lessons learned, provide assurance to our solar customers that their assets are in good hands. Our Solar Services include:

- **Electrical Systems -** Panels, inverters, system disconnects, couplings, combiners, junction boxes, wiring, etc.
- **Metering & Monitoring Systems -** General infrastructure, specific monitoring devices, special components, weather station
- **Technical Infrastructure -** Racking, module mounting, inverter shade structure, inverter pad, etc.
- **Site Maintenance -** Roads and grounds, snow removal, fencing, security, etc.
- **Reporting -** Capital asset management reporting

THE RIGHT SERVICE LEVEL TO MEET YOUR NEEDS & BUDGET
Committed to sustainability

Black & McDonald is committed to effectively monitoring and managing the environmental impact of our business operations to do our part in meeting the resource needs of tomorrow – it’s good business practice and it’s the right thing to do. The years ahead pose challenges in energy production, resource conservation and climate events. As a national leader in renewable energy projects from large scale wind farms to maintaining and measuring a facility’s solar array, Black & McDonald is ideally positioned to assist our clients in these vitally important areas.

Energy management, waste diversion, sustainable procurement and social responsibility are inherent to our projects and our own facilities demonstrating our dedication to our employees, our customers, our communities, and the global environment.

Our Multi-trade Construction Groups have responded to the rapidly changing industry by incorporating new renewable technologies, i.e. net zero energy use strategies for projects as well as our own practices, plus stringent construction waste management policies. Black & McDonald’s innovative approach minimizes risk and maximizes the triple bottom line (People – Planet – Profit).

Black & McDonald has extensive experience participating in integrated project delivery models, providing the key aspects of both technical construction and facility management afterward, integrating long term consideration for maintainability and sustainability into the design-build process.
There’s only one way at Black & McDonald. The right way.

Black & McDonald is a privately-owned company that provides an integrated, multi-trade prime contracting service to governments, institutions, industry, and commerce throughout the Canada, the United States, and Bermuda. Founded in 1921, William John McDonald established a foundation of principles and beliefs that are the very core of the company:

• Do the job right... regardless
• Talk to the customers regularly, confirm their satisfaction
• Make the price fair and reasonable
• A deal is a good one, only when it is good for both parties
• Live up to your promises
• Treat employees with respect
• Complete jobs promptly
• Invoice promptly, fairly, and in detail

As a result, Black & McDonald is known as a reliable and flexible contractor. With a team of over 5,500 strong, Black & McDonald lives and breathes the ultimate in safety, quality and high performance along with engineering excellence, best of class fabrication, and unprecedented customer service. Delivering the right solution in the right way at the right price is driven by an ongoing attitude of unwavering integrity and proud tradition.

Everyone at Black & McDonald knows that continued success depends on the ability to deliver innovation and exceed client expectations. It continually rests on the shoulders of each and every member of the team.

Anything less is not the Black & McDonald way.