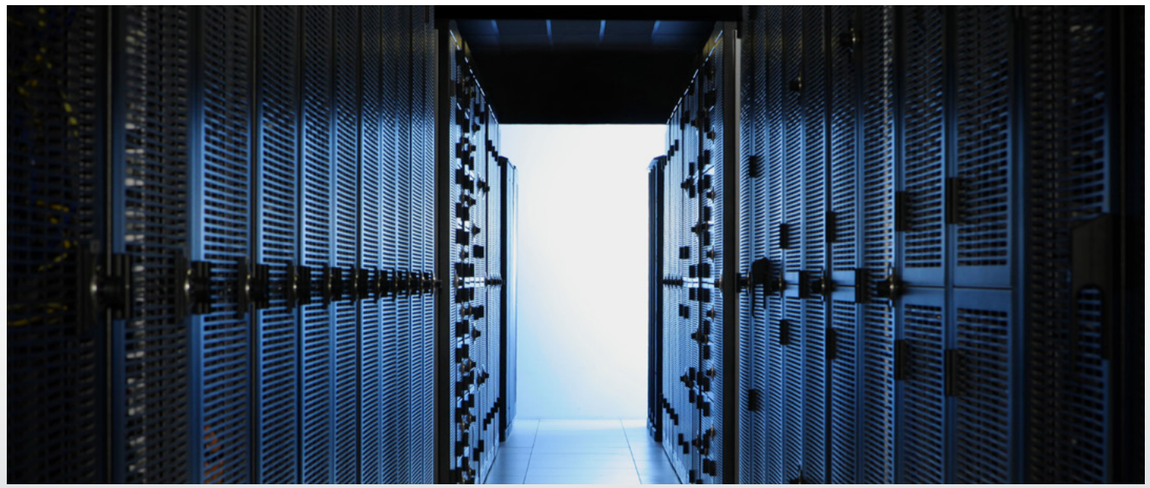
fluentgroup
consulting engineers

design for sustainability



BLACKIRON Data Markham Data Centre

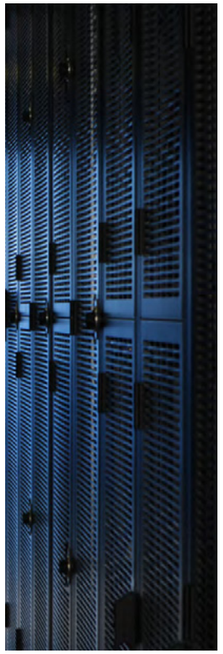
The new BLACKIRON Data Markham Data Centre is a refurbished 4,985 m² one-storey building that includes office and data centre space. In addition to obtaining LEED Silver certification, it has achieved Uptime Institute's Tier III classification.

Key Sustainable Design Elements

- low emitting products used throughout, including furniture
- electric vehicle charging stations to promote new transportation technologies
- interior lighting controls for all occupants
- project uses an existing building, reducing the use of virgin materials and minimizing demolition waste sent to landfill
- LED exterior lighting with full cutoff fixtures

PROJECT STATISTICS

36% annual potable water savings
22% annual energy cost savings
95% construction waste diversion
26% recycled content
58% regional content



BLACKIRONDATA

Contact Us

To learn more about our services and how we can help you design for sustainability, please contact us at:

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The Project Team

Owner:
BLACKIRON Data (Rogers)

Architect:
WZMH Architects

Mechanical Design:
Hidi Rae Consulting Engineers

Electrical Design:
Hidi Rae Consulting Engineers

Contractor:
Computer Room Services Corporation

LEED & ENERGY Consultant:
Fluent Group Consulting Engineers Inc.

Our Role

Fluent Group was engaged by the Owner early in the development process to serve as the sustainable design expert from concept design to completion.

In our role as LEED consultant, we provided the guidance needed to make informed sustainable decisions and implement practical sustainable design solutions. We also managed the LEED certification process and coordinated the application with the CaGBC.

In our role as ENERGY consultant, we provided project-specific recommendations to enhance building performance and will prepared detailed energy models that analyzed and documented energy savings.

Through active collaboration with all members of the project team, our work has been instrumental in implementing the Owner's sustainable design goals and objectives.