



MINISTRY OF GOVERNMENT SERVICES TIER 4 NEW DATA CENTRE

ABOUT THIS PROJECT

- + Delivered through a public-private-partnership (P3) method.
- + Data centre was required to be a highly-available, fault tolerant, Tier 4 design in accordance with the requirements set out by the Uptime Institute.
- + Primary objective was to ensure the Ministry of Government Services are able to provide reliable, accessible, and cost-effective services to its (public sector) clients.
- + Provided mechanical and electrical engineering, and sustainability services from the genesis of the project (pursuit phase) with the development of system concepts to suit the requirements of the project specific output specifications (PSOS) and carried on through detailed design and construction.
- + P3 delivery model assigned operational monetary penalties for significant deviations in the humidity levels. This elevated the importance of optimal construction, mechanical equipment, and controls required to comply with strict, indoor environment performance criteria.
- + Although the ASHRAE Technical Committee 9.9 for Mission Critical Facilities, Data Centres, Technology Spaces and Electronic Equipment have continually widened the envelope for humidity control within the “white space” of Data Centres (e.g. ASHRAE Environmental Guidelines for Datacom Equipment), these “relaxed” standards were not adopted for the MGS Data Centre.

LOCATION
Guelph, ON

SMITH + ANDERSEN
SERVICES PROVIDED
Mechanical, Electrical

KEY TEAM MEMBERS
Adamson Associates Architects

SIZE
218,830 sq. ft. (20,330 sq. m.)

BUDGET
\$352 Million

COMPLETION YEAR
2010

SUSTAINABILITY
LEED Gold

Canadian Council for
Public-Private Partnerships -
Innovation & Excellence in
Infrastructure Development
Silver Award (2011)

HOT BUTTONS

DATA CENTRE

DBFM / P3 / AFP

NEW BUILDING

TIER 4

MECHANICAL DESIGN

ELECTRICAL DESIGN

SUSTAINABLE DESIGN

LEED GOLD



PHOTO CREDIT: DESIGNSTOR