



## ENERGY EFFICIENT **RELIABILITY**

### Green Data Centres

Data Centres are critical to any modern business as a space for housing specialized electronic hardware.

Data Centres have sophisticated electrical, mechanical, and monitoring systems. The ultimate goal for a centre is to have zero failures and zero down time and total flexibility.

### Canem's Green Data Centre Services

Canem provides energy-efficient, sustainable solutions to serve Canada's largest companies, helping data centres to go green. With extensive experience in high-performance infrastructures (including the latest fibre optic-based solutions), integration, automation technologies, energy management, and risk management and security solutions, Canem is able to provide you with leading-edge solutions.



### → The top 5 reasons to choose Canem:

1. We maximize uptime for your facility through careful pre-planning. In the vast majority of upgrade scenarios, Canem strives for no downtime at all
2. We reduce your time spent managing the data centre by providing a single point of contact and real-time reporting
3. We minimize client business risk by following repeatable best practices including extensive pre-planning, pre-fabrication, logistics, vendor management, and project control and methodologies
4. Capture energy trending for future planning
5. Optimize lifecycle utilization



AT THE **CENTRE** OF  
**BUILDING PERFORMANCE**

# Green Data Centres

Electrical Contracting · Information Management  
Building System Integration · **Green Data Centres** · Energy Management  
Security & Risk Management · Lifecycle Services · Rollouts

## Implementation Approach

1. Together with the client, we discuss and understand the **concept**.
2. We **plan** around the concept then proceed to **design** support.
3. Upon completion and acceptance of the design we **deploy**, ensuring the design is strictly adhered to.
4. The final step is to **commission** the work performed.

## Green Data Centre Services

### → SECURITY

- Security and Risk Management systems mitigate threats by ensuring the assets are secure
- A state-of-the-art access management system provides complete control over the perimeter of the facility
- Cameras and monitoring systems provide strategic continuous viewing of the space

### → ENVIRONMENT

- The data centre is completely physically isolated from the exterior space
- Air conditioning units control the space in all seasons
- Supply temperatures are kept within design parameters +/- 2°C; humidity is 45% RH +/- 5%

### → ELECTRICAL POWER

- Robust backup systems ensure that power for the data centre is available at all times 7 days a week/ 24 hours a day/ 365 days a year
- All power is monitored and measured in all strategic locations throughout the electrical distribution system to ensure all systems are within predefined tolerances
- All cabinet power is monitored to ensure that all circuits are within predefined tolerances

### → COMMUNICATION

- Designed to accommodate the maximum data rates dictated by the hardware
- The communications capability and capacity is designed to provide future growth and flexibility

### → DOCUMENTATION

- Documentation covers electrical, mechanical, and hardware (physical location) specifications and all communications cabling
- Documentation is maintained and kept current throughout the lifecycle of the facility

### → MONITORING

- All key areas are monitored, security, environmental, electrical and mechanical 7/24/365

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Victoria	(250) 475.1955
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At Canem, we pride ourselves on our reputation in being leaders of excellence in the industry.

With over 50 years of experience in electrical and data communications contracting services, Canem Smart Building Technologies has the expertise to deliver a fully integrated set of building systems and services designed to optimize the manageability and maximize the value of building assets.

Canem Smart Building Technologies optimize the performance of a building by integrating the building's technologies with its people and processes. Our technologies provide energy savings and monitoring capabilities, resulting in higher occupancy and increased asset value.

