

Solutions document

Colocation and high-density compute.

Five Hut 8 Canada data centres in British Columbia and Ontario, linked by a 100G national backbone. From a single half rack to 135+ kW liquid-cooled GPU deployments, with your data hosted in Canada.

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5

Data centres
BC and Ontario

99.99%

Uptime SLA
At every site

SOC 2

Type II certified
At every site

PIPEDA

Data residency
Hosted in Canada

Enterprise and regulated

Colocation, resilience, compliance

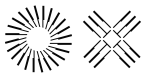
- + **Half rack to private cage**, with A + B power at every level
- + **In-network failover** between Vancouver and Kelowna
- + **SOC 2 Type II, NIST assessed and PIPEDA** data residency
- + Notable sectors: finance, government, healthcare, tech, media

AI and high-density

Kelowna and Mississauga

- + **5 MW available now** across two Tier III designed sites
- + **Up to 135+ kW per rack**, a full node in one cabinet
- + **Liquid-cooling capable** at both high-density sites
- + **Deployment in weeks**, typically a few weeks

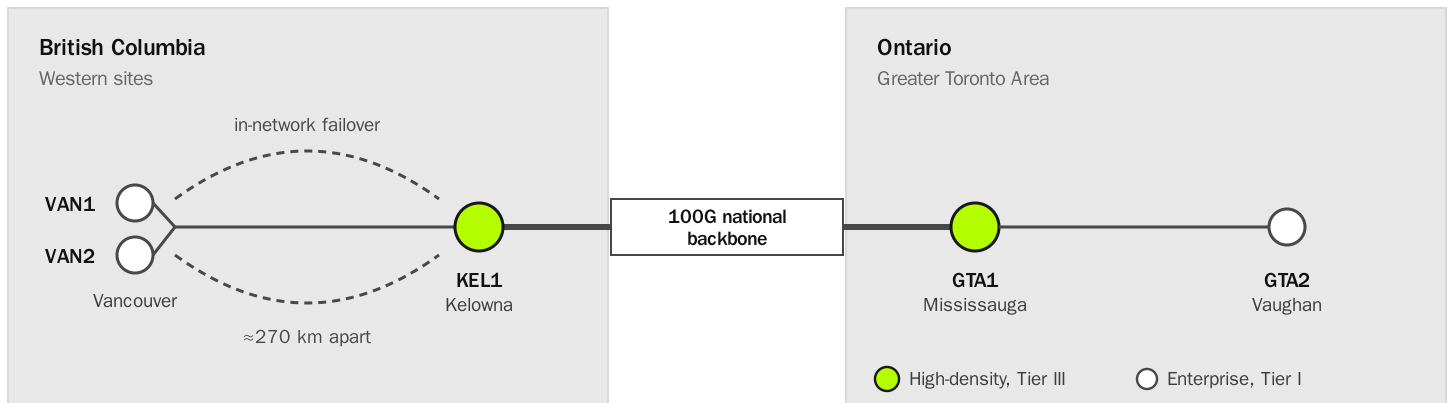
How to use this document. It sits between the sales one-pagers and the facility spec sheets. For full as-built technical detail on any site, ask for that site's spec sheet. Figures reflect as-built infrastructure and availability as at Q3 2026.



01 Network and resilience

Five sites, one backbone.

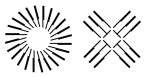
Every Hut 8 Canada site connects to the 100G national backbone. In British Columbia, the Vancouver sites and Kelowna back each other up with in-network failover, pairing a downtown presence with one of North America's lowest geographic risk profiles.



Power resilience by site Green marker shows 24 hours

Site	Design	Power	Generators	Runtime at full load	UPS
Kelowna KEL1	Tier III	2N (A+B)	2 × 1,500 kW, N+1	>29 h	1,000 kW per side, N+1
Mississauga GTA1	Tier III	2N (A+B), 2N UPS	10 × 700 kW, N+1	>24 h	900 kW per side
Vaughan GTA2	Tier I	A + B per cabinet	3 units, 1,125 kW	>28 h	625 kW per side
Vancouver Vault VAN1	Tier I	A + B per cabinet	1 × 600 kW	>48 h	560 kW, N+1
Vancouver VAN2	Tier I	A + B, 2N UPS	2 units, 435 kW	>24 h	900 kW per side

99.99% Uptime SLA ≤ 53 min/yr downtime	24/7 NOC At every site	1.3 Target PUE At every site	>24 h Generator runtime At every site, full load
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02 Colocation

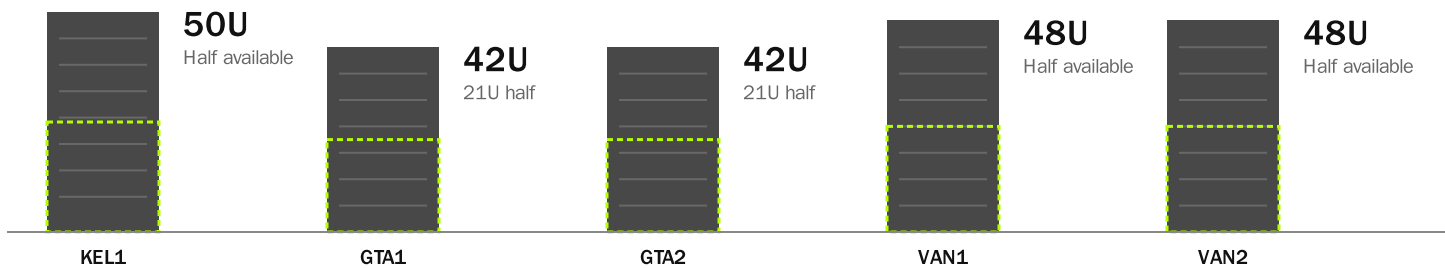
Right-sized for every workload.

Three configurations, available at all five sites. Every configuration includes A + B power, PDUs and dual cable trays.

Half rack	Entry and edge	Full rack	Mid-market and regulated	Private cage	Enterprise and critical
Rack units	Half cabinet	Rack units	Full cabinet	Capacity	Unlimited racks and power
Power	A + B feeds	Power	A + B feeds	Security	Physical cage + biometric
PDUs	Standard included	PDUs	Standard + customer PDUs	Escort	On-site escort included
Remote hands	Business hours (9 to 5)	Remote hands	24/7 smart hands	Connectivity	Dedicated dark fibre or P2P ring
Bandwidth	1 Gbps included	Bandwidth	2 to 10 Gbps dedicated	Bandwidth	100G available
		Connectivity	Dark fibre available		

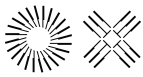
Full cabinet size by site

Dashed outline shows a half cabinet



Add-ons, available at every site

- + Remote hands and 24/7 smart hands
- + On-site equipment storage
- + Additional cross-connects
- + Customer lounge and work area
- + Dedicated dark fibre uplink



03 High-density and AI

GPU-ready capacity, in weeks.

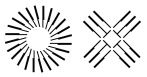
Two Tier III designed sites built for dense AI and GPU workloads. At 135 kW and up, a full GPU node deploys into a single cabinet instead of being spread thin across a floor.

5.0_{MW} Available now Across two sites	135+_{kW} Per rack KEL1 135, GTA1 135+	Liquid Cooling capable At both sites	Weeks To deploy Typically a few weeks
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Kelowna		KEL1		British Columbia	
Available	83%	2.5 of 3 MW			
Density	Up to 135 kW per rack, 50U cabinets				
Cooling	Liquid-cooling capable, chilled-water closed loop + air, 2 × 200-tonne chillers				
Thermal	Cold aisle containment, winter free-cooling advantage				
Power	2N (A+B), N+1 cooling, >29 h generator runtime				
Energy	95% renewable hydroelectricity				
Network	Telus, Rogers, Zayo, Bell, 100G ports				

Mississauga		GTA1		Ontario	
Available	71%	2.5 of 3.5 MW			
Density	135+ kW per rack, 42U cabinets				
Cooling	Liquid-cooling capable, chilled water + closed glycol loop, 14 × 30-tonne CRAC (N+1)				
Thermal	Hot/cold aisle containment, air-cooled rooftop redundant unit				
Power	2N (A+B), 2N UPS, >24 h generator runtime				
Location	Greater Toronto Area				
Network	Rogers, Bell, Zayo, Cogent, Telus, 100G ports				

Liquid-cooled GPU clusters on renewable power: Kelowna, with 95% renewable hydro and winter free cooling.	Dense deployments close to the GTA: Mississauga, with five carriers on net and 2N UPS.	Efficiency: both sites target a PUE of 1.3, so about 77% of each kWh reaches IT equipment.
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04 Connectivity and security

Carrier-neutral, independently verified.

Every site is carrier-neutral with 100G ports, dark fibre and diverse building entrances, and connects to the 100G national backbone. Compliance is consistent across the network, with physical security that varies by building.

Carriers on net by site

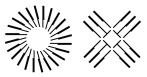
Site	Bell	Cogent	Rogers	Shaw	Telus	Zayo	Total
Kelowna KEL1	●	.	●	.	●	●	4
Mississauga GTA1	●	●	●	.	●	●	5
Vaughan GTA2	.	.	.	.	.	●	1
Vancouver Vault VAN1	.	.	.	.	.	●	1
Vancouver VAN2	.	.	●	●	.	.	2

All sites: 100G ports, dark fibre, diverse entrances, additional cross-connects. Vaughan adds 2N connectivity redundancy.

Security and compliance by site

Control	KEL1	GTA1	GTA2	VAN1	VAN2
SOC 2 Type II	●	●	●	●	●
NIST assessed*	●	●	●	●	●
PIPEDA data residency	●	●	●	●	●
24/7 NOC	●	●	●	●	●
NOC-monitored CCTV	●	●	●	●	●
Card + biometric access	●	●	●	●	●
90+ day video retention	.	.	●	●	●
Man trap entry	.	●	.	.	.
Pre-action dry-pipe suppression	.	●	.	.	.
Vault-grade construction	.	.	.	●	.

* NIST assessment is conducted case by case as a solution-based evaluation. Additional compliance frameworks available on request. A dot shows the control is listed in the site's current specification; other details are available on request.



05 Choose your site

Every site at a glance.

Use this table to shortlist a site, then ask for its facility spec sheet for full as-built detail.

Site	Capacity	Density / cabinet	Design	Cooling	Energy	Best for
Kelowna KEL1 Kelowna, BC	2.5 MW available of 3 MW	135 kW, 50U	Tier III	Liquid-capable, chilled water	95% renewable hydro	High-density compute, low-risk DR
Mississauga GTA1 Mississauga, ON	2.5 MW available of 3.5 MW	135+ kW, 42U	Tier III	Liquid-capable, chilled water	Utility grid	Finance, government, healthcare, tech
Vaughan GTA2 Vaughan, ON	1 MW designed	42U	Tier I	Modular CRAC, N+1	Utility grid	Tech, media, business services
Vancouver Vault VAN1 Vancouver, BC	1 MW designed	48U	Tier I	Chillers, in-row, N+1	Majority hydro	Tech, media, business services
Vancouver VAN2 Vancouver, BC	1 MW designed	48U	Tier I	CRAC, N+1	Majority hydro	Tech, media, business services

Next step	Shortlist	Due diligence	Spec sheets	Deploy	In weeks
+ Tell us your power, density and location needs + We confirm current availability at your shortlisted sites		+ One facility spec sheet per site + As-built power, cooling, connectivity and compliance		+ High-density deployments typically in a few weeks + Colocation from a half rack upwards	

Related documents

 Ask your Hut 8 Canada contact for any of these

Document	Depth	Use it for
Sales one-pagers	Single page, two versions	A quick introduction: enterprise colocation, or high-density compute
Solutions document	This document	Positioning, services and site comparison
Facility spec sheets	Two pages per site	As-built technical detail for KEL1, GTA1, GTA2, VAN1 and VAN2

