



British Columbia  
Broadband Association

# HYPERSCALER AI INFRASTRUCTURE DEPLOYMENTS IN NORTH AMERICA

*Physical Layer · Fiber Infrastructure · Sovereign Compute*

BC BROADBAND CONFERENCE · Richmond, BC · April 28–29, 2026

## YOUR SPEAKER

**Scott Jamieson**

General Manager · PBI Fiber



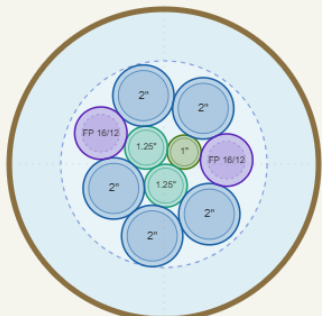
## ABOUT PBI FIBER

- Plenary Broadband Infrastructure (PBI) owns, develops, operates and commercialises middle-mile fiber routes across North America.
- Consortium of Plenary Americas (CDPQ-backed; \$23.5B+ portfolio) and Tikehau Star Infra.
- Unique ROW access: Pennsylvania Turnpike, North Carolina DOT, Georgia DOT interstate highway systems.
- Services: Dark Fiber IRU · Dark Fiber Lease · Lit Services · Colocation · Custom Network Solutions.
- Customers: hyperscalers, telecom carriers, FTTH providers, data center operators.

[pbifiber.com](https://pbifiber.com)

Solve — find optimal mixed packing ↗

Eff. bore 8.000" (203.2 mm) · reamer 12.000" ± 1.50×



reamer Ø 12.000" · eff. bore Ø 8.000"

- 1" SDR 11 x1
- 1.25" SDR 11 x2
- 2" SDR 11 x5
- FP 7-way 16/12 x2
- reamer
- eff. bore

FILL RATIO  
**68.3%**

PRODUCT COUNT  
**10**

BUNDLE AREA  
**22136 mm<sup>2</sup>**  
34.310 in<sup>2</sup>

VOID AREA  
**10294 mm<sup>2</sup>**

○ ANNULAR SPACE — MUD RETURN

Reamer OD	12.000" (304.8 mm)
Effective bore	8.000" (203.2 mm)
Bundle envelope OD	203.3 mm (8.005")
Radial clearance to bore wall	50.7 mm (1.996")
Annular area (reamer - bundle)	50830 mm <sup>2</sup> (78.787 in <sup>2</sup> )
Annular area (bore - bundle)	10294 mm <sup>2</sup> (15.955 in <sup>2</sup> )
Slurry return vel. @ 150 gal/min	1.9 ft/min

TOP CONFIGURATIONS

**1× 1" SDR 11 + 2× 1.25" SDR 11 + 5× 2" SDR 11 + 2× FP 7-way 16/12**

10 products · 22136 mm<sup>2</sup> used · 10294 mm<sup>2</sup> void

**2× 3" SDR 11 + 2× FP 7-way 16/12 + 2× FP 7-way 18/14** 67.3%

6 products · 21813 mm<sup>2</sup> used · 10617 mm<sup>2</sup> void

**2× 3" SDR 11 + 3× FP 7-way 16/12 + 1× FP 7-way 18/14** 65.6%

6 products · 21290 mm<sup>2</sup> used · 11140 mm<sup>2</sup> void

**3× 3" SDR 11 + 1× FP 7-way 18/14** 65.5%

4 products · 21233 mm<sup>2</sup> used · 11197 mm<sup>2</sup> void

Want to be notified when Claude responds?

Notify ×

Reply...



Sonnet 4.6 ▾ |

CLAUDE AI

*Let me build a proper solver for this. The core challenge here is that mixed-radius packing is an NP-hard combinatorial + geometric optimization problem. The approach I'll use is: A **branch-and-bound search** over pipe count combinations ( $n \times 2'' + m \times 3''$ ) with a small-gap tolerance. A **physics-based placement engine** using repulsion/gravity simulation to find valid geometric arrangements for each combination. Ranked results by fill ratio with full visualization of the winning layout*

# Agenda

**01** Global Context & Fiber Infrastructure

**02** The Regulatory Landscape

**03** Case Study: Microsoft Mega-Campus

**04** Case Study: Equinix Hampton vs. Homer City PA

**05** Case Study: TELUS + Canadian Sovereign AI

**06** Lessons, Outlook & Q&A

# GLOBAL AI DATA CENTER SNAPSHOT • 2026

11,800+

Data centers worldwide [1]

103 GW

Current global capacity [2]

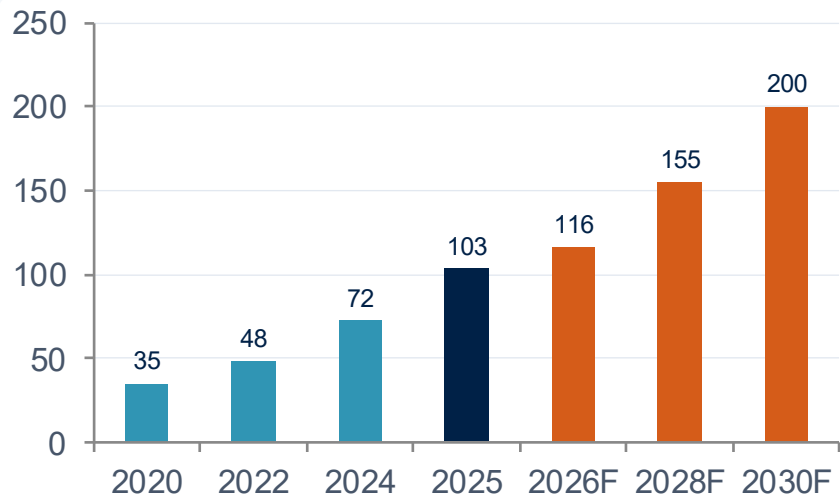
200 GW

Forecast by 2030 [2]

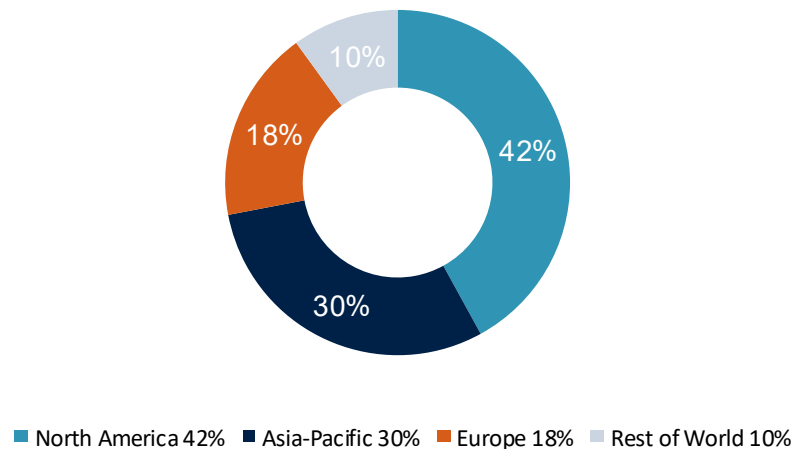
\$7T

Global invest. 2025–30 [3]

Global Data Center Capacity (GW) 2020–2030F [2][9]



North America Share of Global Capacity 2026 [9]



# THE PHYSICAL LAYER: FIBER IS THE NERVOUS SYSTEM

L1

## Physical ★ FOCUS

Dark fiber, conduit, transceivers, cabling plant, submarine cables

L2

## Data Link

400GbE / 800GbE switching, RoCEv2, InfiniBand

L3

## Network

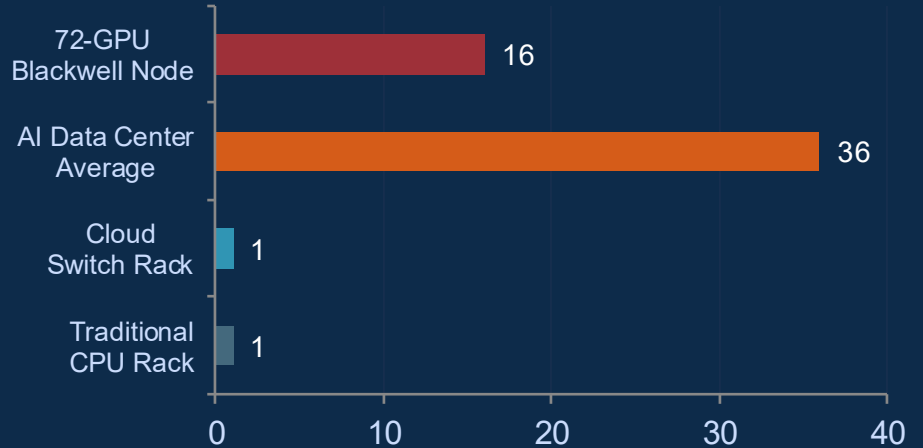
BGP peering, IP fabric, SDN overlays

L7

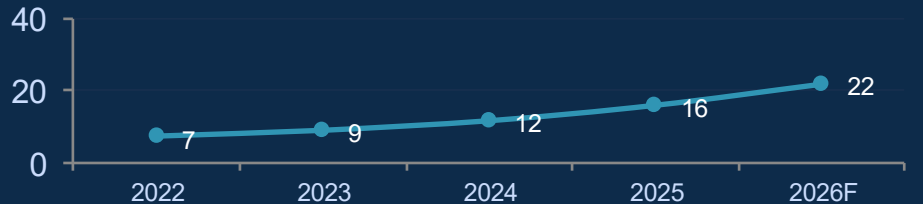
## Application

AI model APIs, inference endpoints, control planes

Fiber Per Rack: AI vs Traditional Infrastructure [6]



Optical Transceiver Market Growth (\$B) [10]



# REGULATORY HEADWINDS: MORATORIUMS & INVESTMENT CLIMATE

11

States with moratorium bills 2026 [13]

\$162B

Investment disrupted 2024–2025 [14]

36+

States with data center incentives [15]

300+

State bills filed in 6 weeks 2026 [16]

## RESTRICTED / MORATORIUM

**Virginia** By-right zoning ended; HB 1515 grid freeze [17]

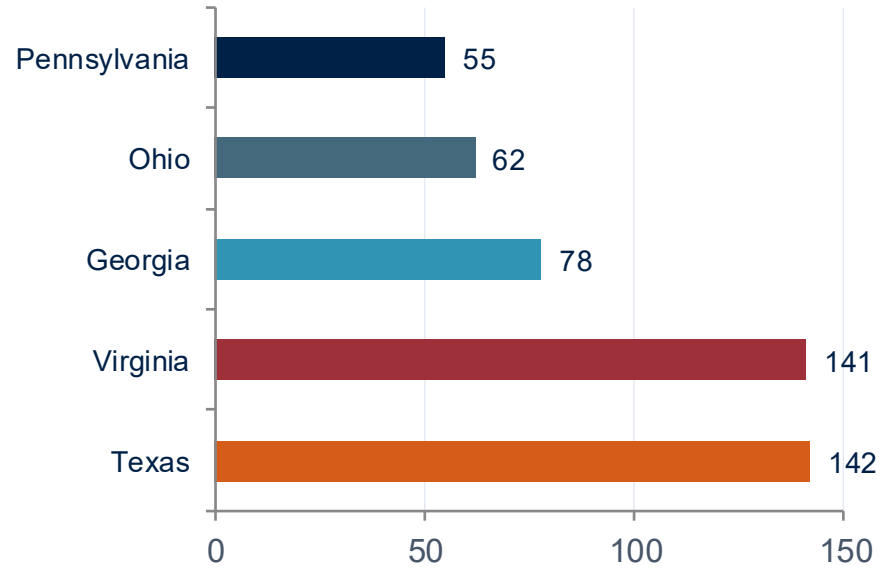
**New York** NY A10141: proposed 3-year halt [13]

**Georgia** Beltline ban; county moratoriums [18]

**Oklahoma** SB 1488: >100MW freeze to 2029 [13]

**Vermont** S.205: moratorium through 2030 [15]

## Data Centers Under Construction — Top 5 States, 2026 [19][11]



# US STATE DEEP DIVE: TEXAS · PENNSYLVANIA · GEORGIA

## TEXAS

### Centers

300+ operating; 142 under construction — #1 US [19]

### Stargate

Abilene: \$100B, 5 GW [20]

### Vantage Frontier

Shackelford Co: \$25B, 1.4 GW, 1,515 acres [22]

### Fermi Campus

5,800 acres; 18M sq ft; 1 GW Phase 1 [22]

### Fiber

W. Texas: thousands of new route miles (FiberLight, Zayo, Globelink) [11]

### Risk

ERCOT grid; \$3B+/yr tax exemptions under legislative review [19]

## PENNSYLVANIA

### Amazon

\$20B; Salem Twp. adj. Susquehanna nuclear — direct power connect [20]

### Homer City

3,200 acres; 4.5 GW; 7 GE Vernova turbines; EQT gas supply [75]

### Power scale

4.5 GW ≈ 28–39× City of Richmond BC (~115–160 MW continuous) [PBI est.]

### PAX Digital I

700 acres; 1.35 GW; 17 metro fiber networks; Ashburn peering [81]

### Power

PJM deregulated; NE PA in CBRE H2 2025 top markets [11]

### Status

Pro-development; part of \$90B state AI infrastructure commitment [24]

## GEORGIA

### Equinix Hampton

262 acres; 240 MW; first US xScale; hyperscale pre-leased Q1 2026 [90]

### QTS Atlanta-1

99 acres; 278 MW; 3 Georgia Power substations; redundant fiber [54]

### QTS Fayetteville

Project Excalibur: 615 acres; \$1B+; 16 buildings to 2032 [50]

### Fiber

2 largest US fiber routes intersect in metro Atlanta [67]

### Moratorium

Atlanta Beltline banned; Douglas & Clayton county pauses [18]

### Tax

State estimates \$2.5B/yr in tax breaks — under review [15]



CASE STUDY 01

# Hyperscaler Mega-Campus

Microsoft's Iowa & Virginia Expansion

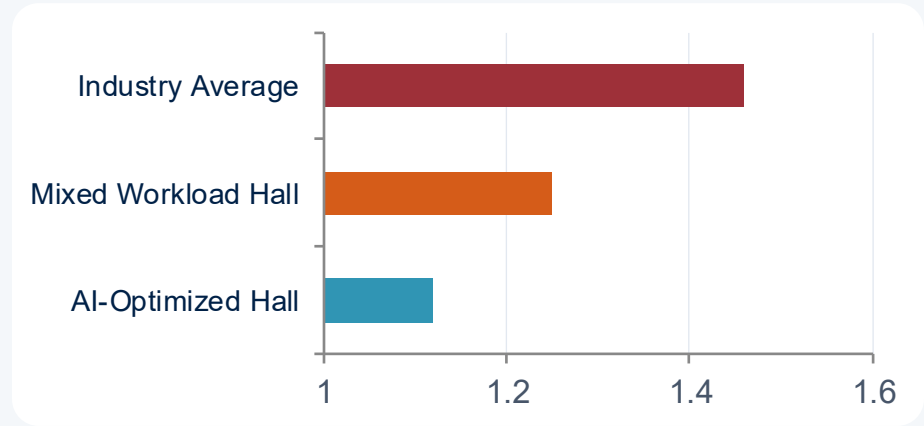
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*Fiber Topology · Power Co-Investment · 120,000-Mile Dedicated WAN*

# MICROSOFT: IOWA + VIRGINIA — PHYSICAL INFRASTRUCTURE

<b>Fiber WAN</b>	120,000 miles dedicated AI-WAN fiber; interconnects all campuses globally [12]
<b>Long-haul</b>	Dark fiber to Chicago IX; <4ms to US East hubs; 3+ diverse carrier paths
<b>Optical</b>	800GbE campus fabric; 400G DWDM long-haul between sites
<b>Power</b>	500+ MW; Iowa wind PPAs; utility co-funded substation with MidAmerican Energy
<b>Scale</b>	3.2M sq ft (Des Moines); PUE 1.12 AI halls vs 1.25 mixed workload
<b>Timeline</b>	Phase 1 live Q3 2023; Phase 3 completing Q2 2026

**PUE: AI-Optimized vs Mixed Workload Halls [12]**



*Lower PUE = more efficient. 1.0 = theoretical perfect.*

## KEY LESSON

Fiber procurement leads compute by 18–24 months. Dark fiber routes and conduit rights-of-way must be secured before campus design is finalized. Physical fiber plane separation — not logical path diversity — is the real resilience measure.

# Greenfield Hyperscale vs. Brownfield Energy Campus

## Equinix xScale Hampton

Hampton, GA (Henry County)  
AT10x — First US xScale Campus

*262 acres · 240 MW · \$2.4–2.9B value  
GIC + CPP Investments JV · Hyperscale colo*

## Homer City Energy Campus

Indiana County, PA  
Homer City Redevelopment (HCR)

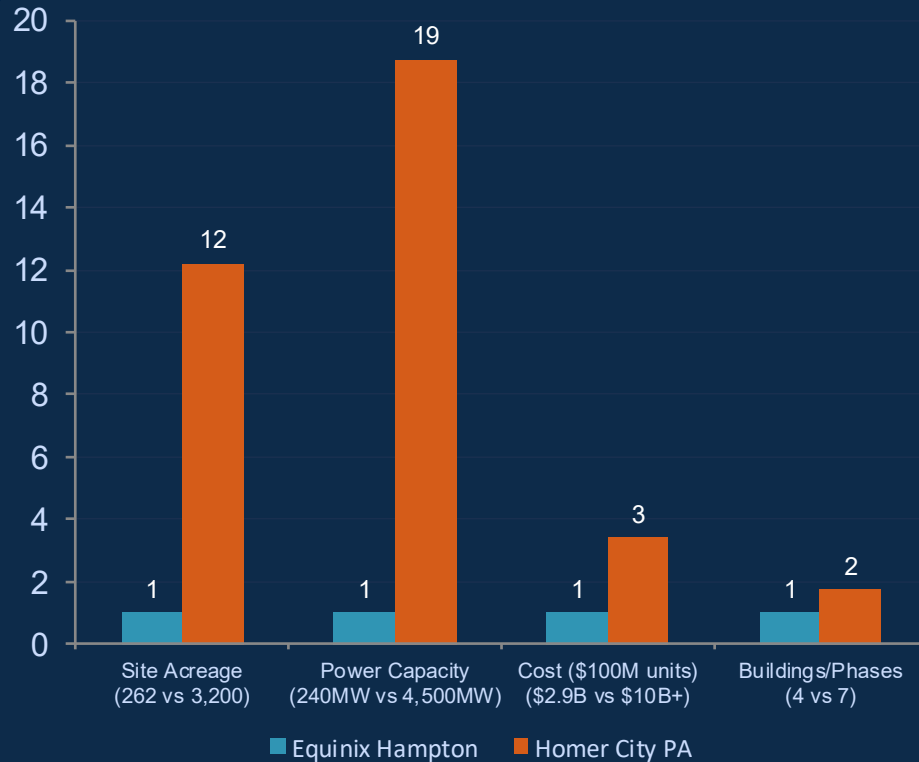
*3,200 acres · 4.5 GW · \$10B+  
Kiewit EPC · Coal→AI brownfield*

# EQUINIX HAMPTON, GA vs. HOMER CITY, PA — SIDE BY SIDE

	Equinix Hampton	Homer City PA
<b>Site</b>	262 acres, Hampton GA ~40 miles SE of Atlanta [90][101]	3,200 acres, Indiana County PA (former coal plant site) [75]
<b>Developer / Ownership</b>	Equinix (NASDAQ: EQIX) GIC 37.5% + CPP 37.5% + EQIX 25% [94][105]	Homer City Redevelopment (HCR) Kiewit EPC; Knighthead Capital [80]
<b>Power Capacity</b>	240 MW: 4 × 60 MW buildings One independent 60 MW block each [90][101]	4.4–4.5 GW on-site generation 7× GE Vernova 7HA.02 turbines [75][80]
<b>Power Source</b>	Georgia Power grid connection LEED target; SMR agreements filed [87][105]	On-site natural gas (Marcellus Shale) EQT Corp exclusive gas supply [83]
<b>Fiber &amp; Connect.</b>	2 largest US fiber routes in metro ATL [67]; carrier-neutral; 30+ MW min tenant [87]	PJM + NYISO transmission lines already on-site from prior coal plant [76]
<b>Investment</b>	\$2.4–2.9B campus value (\$10–12M/MW build cost) [92]; part of \$15B JV [103]	\$10B+ power infra; billions more for data center build [76]
<b>Timeline</b>	Site grading Aug 2025; JV Jan 2026; hyperscale pre-leased Q1 2026; live 2027 [87][103]	Construction underway 2025; first power generation 2027/28 [84]
<b>Key Risk / Advantage</b>	First US xScale; pre-leased Q1 2026 [94] Hampton 120-day moratorium possible [85]	4.5 GW on-site power (grid-neutral) Environmental permit scrutiny [84]

# EQUINIX HAMPTON vs. HOMER CITY — KEY METRICS COMPARED

Scale Comparison (Normalized to Equinix = 1x) [75][80][90][101][105]



Note: Equinix = 262 acres, 240 MW, ~\$2.9B, 4 buildings. Homer City = 3,200 acres, 4,500 MW, \$10B+, 7 turbine/data hall phases.

## STRATEGIC DIFFERENTIATORS

<b>Power model</b>	Grid-dependent; Georgia Power + SMR pipeline	Self-generation; 4.5 GW on-site (grid-neutral)
<b>Tenant model</b>	xScale hyperscale colo; 30+ MW min deployment [87]	Hyperscale anchor tenant; full campus or multi-phase
<b>Land type</b>	Greenfield; graded ~40 mi SE of Atlanta [87]	Brown field; former PA coal plant
<b>Ownership</b>	Equinix REIT + GIC/CPP; \$15B total JV [105]	HCR + Knighthead; EQT gas supply [83]
<b>Fiber</b>	Atlanta IX ecosystem; carrier-neutral [67]	PJM/NYISO transmission already on-site [76]
<b>Regulatory</b>	Hampton 120-day moratorium under consideration [85]	Air quality permit in 6 months [84]



CASE STUDY 03

# Sovereign AI Compute

TELUS + NRC — Canada's Provincial Build-Out

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*Bill C-27 · Data Residency · Fiber Connectivity · Province-by-Province Investment*

# TELUS + NRC (NATIONAL RESEARCH COUNCIL): SOVEREIGN AI — PHYSICAL & CONNECTIVITY FOCUS

## PROJECT OVERVIEW

### Mandate

Canadian data residency for federal AI workloads (Bill C-27)

### Compute

2,048 H100 GPUs across Toronto + Calgary (hydroelectric)

### Fiber

Dual-diverse long-haul; Protected B L1 encryption; no US IXP routing

### Connectivity

Private SD-WAN bridging TELUS cloud to SSC legacy systems

### Security

CCCS Protected B compliance; air-gap option for secret workloads

### Energy

100% Hydro-Québec + BC Hydro sourcing; PUE 1.11

## PHYSICAL & CONNECTIVITY CHALLENGES

### Fiber sovereignty

All transit paths must stay on Canadian soil — eliminates routing through US IXPs even for domestic traffic

### Encrypted transport

Layer-1 encryption required on all Protected B dark fiber segments; adds latency vs unencrypted paths

### Procurement

Federal RFP added 14 months; sovereignty requirements eliminated most US hyperscalers from bidding

### Talent gap

~40 ML infra engineers in Canada with required clearances; parallel training program launched

# CANADA: PROVINCE-BY-PROVINCE INVESTMENT COMPARISON

## ONTARIO ★★★★★☆

<b>Market:</b>	35.8% of Canada market (2025) [26]
<b>Pipeline:</b>	500 MW dev pipeline [27]
<b>Power:</b>	Mixed grid; ~\$0.08–0.10 CAD/kWh
<b>Fiber:</b>	151 Front St W; Chicago/NY links
<b>Highlight:</b>	Cohere/CoreWeave: C\$240M federal funding [28]

## QUÉBEC ★★★★★★

<b>Market:</b>	24.6% share; fastest CAGR 5.44% [26]
<b>Pipeline:</b>	Mega-scale >60MW: 23.9% CAGR [26]
<b>Power:</b>	99% renewable; \$0.036 USD/kWh [26]
<b>Fiber:</b>	Montréal <8ms to NYC; major IX
<b>Highlight:</b>	Microsoft: 4 hyperscale campuses QC+ON [27]

## ALBERTA ★★★★★☆

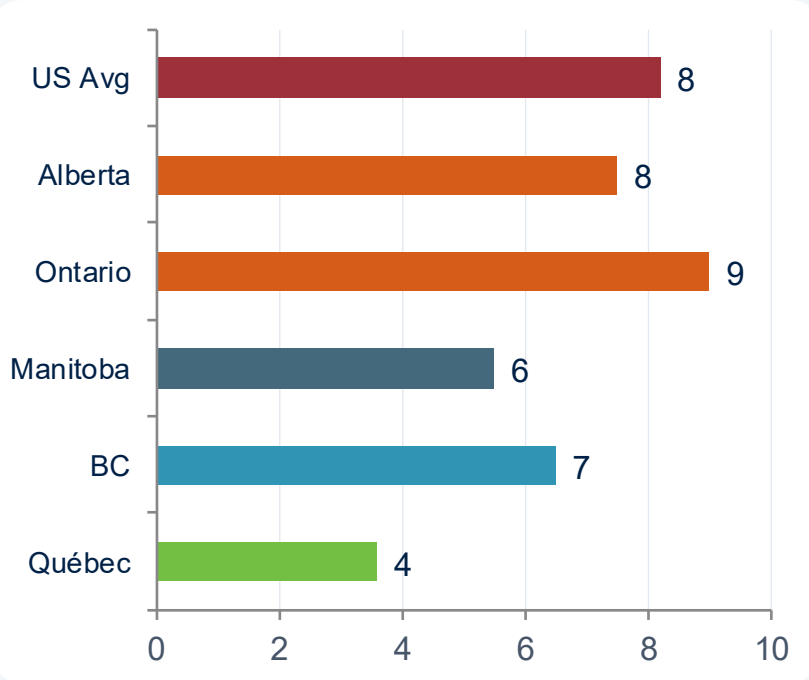
<b>Market:</b>	Fastest incremental build; >25% colo pipeline [28]
<b>Pipeline:</b>	Beacon AI: 5×400MW = 2 GW [28]
<b>Power:</b>	Deregulated; no carbon tax on DC
<b>Fiber:</b>	Calgary/Edmonton hubs; long-haul to Vancouver
<b>Highlight:</b>	Target: C\$100B AI DCs by 2030 [29]

## BRITISH COLUMBIA ★★★★★☆

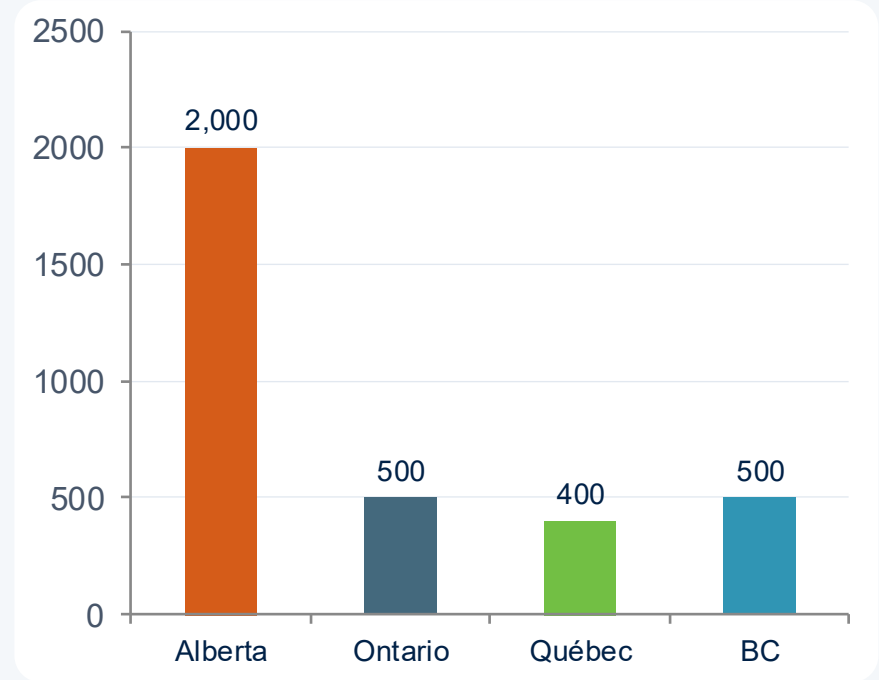
<b>Market:</b>	3rd cumulative IT load; Pacific gateway [26]
<b>Pipeline:</b>	Bell AI Fabric: 500 MW 6 BC sites [30]
<b>Power:</b>	BC Hydro >95% renewable; \$0.06–0.07 CAD/kWh
<b>Fiber:</b>	Vancouver: key sub-Pacific cable landing
<b>Highlight:</b>	Gryphon Digital: 850-acre site, 130 MW by 2026 [27]

# CANADA POWER COST & PIPELINE BY PROVINCE [26][27][31]

Industrial Power Cost (USD¢/kWh) [26][31]



Data Center Capacity Pipeline (MW) by Province [28][29][30]



Optional supplementary slide. Alberta 2GW = Beacon AI Centres (5x400MW). Sources: Mordor Intelligence [26]; Outpost Recruitment [28]; TD Economics [29]; LandGate [30].

# LESSONS: FIBER, POWER & PHYSICAL INFRASTRUCTURE

## Fiber First — 18–24 month lead time

Dark fiber routes, conduit rights-of-way, and carrier agreements must precede campus design. High-fiber-count assembly lead times: 9–12 months.

## Physical ≠ Logical Redundancy

Two carriers sharing the same conduit offer zero real resilience. Equinix Hampton and Homer City both require diverse physical fiber plant verification.

## Power Model Defines Strategy

Equinix Hampton is grid-dependent (Georgia Power). Homer City brings 4.5 GW on-site — eliminating multi-year grid connection waits entirely.

## Brownfield Permitting Can Be Faster

Homer City's air quality permit cleared in 6 months [84]. Equinix Hampton faces a potential 120-day moratorium [85]. Brownfield sites often win on timeline.

## Moratoriums Redirect, Not Stop Investment

VA/NY/GA tightening pushes capital to TX, PA, WV, Ohio. Equinix filed Hampton despite Atlanta-area restrictions; Homer City benefits from PA's open-door stance.

## CA Sovereignty = Physical Routing Constraint

Canada's Bill C-27 mandates fiber paths stay on Canadian soil. Not a logical constraint — a physical one requiring dedicated dark fiber between all sites.

# WHAT'S COMING: 2026 OUTLOOK

01

## Nuclear & SMR Power

Microsoft TMI restart + Amazon Talen Energy deals. Fermi America (TX) filed for 4× AP1000 reactors. Homer City model (on-site gas generation) becoming template for large new campuses.

02

## Fiber Corridors Accelerating in Secondary Markets

CBRE H2 2025: West Texas, Columbus OH, Alabama are fastest-growing new fiber corridors. Zayo's Chicago→Columbus (385 mi) and Chicago→Minneapolis (520 mi) routes for hyperscale. [11]

03

## Moratorium Map Bifurcates North America

VA and GA tighten → TX, PA, Ohio, WV compete aggressively. Equinix Hampton faces potential 120-day moratorium [85]; Homer City benefits from Pennsylvania's open-door stance. [13][16]

04

## Canada Sovereignty Mandates + Bell AI Fabric

Bill C-27 enforcement live in 2026; Bell Canada's 500 MW BC hydro-powered AI supercluster (6 facilities) is Canada's largest single AI compute project. Alberta targeting C\$100B by 2030. [29][30]

# Thank You

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## Key Takeaways

- Fiber procurement leads compute by 18–24 months — physical layer first
- Equinix Hampton (240MW, grid) vs Homer City (4.5GW, self-gen) — two very different power models
- Canada: Québec wins on cost, Alberta on speed, BC on Pacific fiber
- Moratoriums redirect, not stop — PA and Texas are the new Northern Virginia

*Questions & Discussion · Sources on following slide*

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# GLOSSARY OF ACRONYMS



MEANING	
<b>AI</b>	Artificial Intelligence
<b>ASN</b>	Autonomous System Number
<b>BGP</b>	Border Gateway Protocol
<b>CAGR</b>	Compound Annual Growth Rate
<b>CAPEX</b>	Capital Expenditure
<b>CCCS</b>	Canadian Centre for Cyber Security
<b>CDPQ</b>	Caisse de dépôt et placement du Québec
<b>CNS</b>	Custom Network Solutions
<b>CPP</b>	Canada Pension Plan
<b>DC</b>	Data Centre
<b>DOT</b>	Department of Transportation
<b>DWDM</b>	Dense Wavelength Division Multiplexing
<b>ERCOT</b>	Electric Reliability Council of Texas
<b>FTTH</b>	Fibre to the Home
<b>GIC</b>	Singapore's Sovereign Wealth Fund
<b>GPU</b>	Graphics Processing Unit
<b>GW</b>	Gigawatt
<b>HCR</b>	Homer City Redevelopment
<b>HDD</b>	Horizontal Directional Drilling

MEANING	
<b>ILA</b>	In-Line Amplifier
<b>IRU</b>	Indefeasible Right of Use
<b>IX / IXP</b>	Internet Exchange / Internet Exchange Point
<b>JV</b>	Joint Venture
<b>L1</b>	Layer 1 (Physical Layer — OSI model)
<b>L2</b>	Layer 2 (Data Link Layer — OSI model)
<b>L3</b>	Layer 3 (Network Layer — OSI model)
<b>L7</b>	Layer 7 (Application Layer — OSI model)
<b>LNG</b>	Liquefied Natural Gas
<b>LSZH</b>	Low Smoke Zero Halogen (cable jacket type)
<b>MD</b>	Multi-Duct (conduit)
<b>MW</b>	Megawatt
<b>NRC</b>	National Research Council (Canada)
<b>NYISO</b>	New York Independent System Operator
<b>O&amp;M</b>	Operations & Maintenance
<b>OSI</b>	Open Systems Interconnection (7-layer network model)
<b>OSP</b>	Outside Plant
<b>OSFP-XD</b>	Octal Small Form-factor Pluggable — Extra Density (transceiver)
<b>P3</b>	Public-Private Partnership

MEANING	
<b>PBI</b>	Plenary Broadband Infrastructure
<b>PJM</b>	PJM Interconnection (US regional grid operator)
<b>PoP</b>	Point of Presence
<b>PPA</b>	Power Purchase Agreement
<b>PTC</b>	Pennsylvania Turnpike Commission
<b>PUE</b>	Power Usage Effectiveness
<b>RDMA</b>	Remote Direct Memory Access
<b>REIT</b>	Real Estate Investment Trust
<b>RFP</b>	Request for Proposals
<b>RoCEv2</b>	RDMA over Converged Ethernet version 2
<b>ROW</b>	Right of Way
<b>SDN</b>	Software-Defined Networking
<b>SD-WAN</b>	Software-Defined Wide Area Network
<b>SMR</b>	Small Modular Reactor
<b>SSC</b>	Shared Services Canada
<b>TELUS</b>	Telecommunications company (formerly BC Tel)
<b>WUE</b>	Water Usage Effectiveness
<b>xScale</b>	Equinix's hyperscale data centre joint-venture platform