

India's next tech wave... It runs on concrete and power

The four big US tech firms will spend ~\$700bn in 2026 and still can't keep up.. global data centers run ~97% full, leased before they're finished.

The new edge isn't lower-cost labour. It's whoever can build and energise gigawatt-scale capacity fast. India can. And the players doing it are infra players like **Adani, Reliance, Bharti Airtel, L&T.**

Google

1 GW Vizag hub

Microsoft

live mid-2026, Hyderabad

The build has started. First movers are in. But the bottlenecks are immense.. power and grid, heat, water, land, clearances. The **government is fully behind it..** a 2047 tax holiday, an AI mission, incentives.. the same policy push that helped power the software wave in the 2000s.

**India did it once in software.
Same pattern, now in data centers.**

The world is out of compute. And out of power.

Everyone is bidding for energised, large-scale sites. There aren't enough.. and even the US can't build them fast.

~\$700bn

Big-4 hyperscaler capex guided for 2026, up ~77% on 2025

103 → 200 GW

global capacity, today to 2030 (JLL)

- The binding constraints are **power and time**. In primary markets, grid-connection lead times exceed **four years** (JLL). In the US, large transformers are running at **2.5 to 3 year averages**, with little near-term relief expected (Wood Mackenzie).
- Capacity is **leased before it's finished**.. global occupancy ~**97%**, ~**77% of construction already pre-committed** (both JLL, global).
- If even the US.. with all its capital.. can't energise capacity fast enough, the case for building where you can gets stronger.

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When supply is this tight, whoever can actually deliver capacity sets the terms. Nobody is haggling on price right now.. they're scrambling for megawatts.

India did this once before, with software

India's software industry got big by doing the world's IT work cheaper, in English, at scale

~\$315bn

IT/BPM revenue, FY26

~\$246bn

of IT exports

~5.95m

people employed

- It didn't happen by luck.. the software takeoff in the late 90s and early 2000s was a combination : **Leadership drive + timing + government support**. That's what turned a small industry into a global one.

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The same three elements are lining up again: the timing is right, the players are ready, and the government is already moving with incentives and policy.

The arbitrage is now in fast capacity

This wave runs on land, power, water, hard engineering and skilled trades.. and the ability to build a campus and switch it on.

What an AI data center actually costs



Approximate split (McKinsey). The ~40% that's local is India's edge; the 60% hardware is the same everywhere.

- India's local cost (land, labor, electrical, civil work) is **roughly half** the global average of ~\$11.3M per MW (shell and core only, JLL 2026 Global Data Center Outlook). The chips and AI networking are the same global price for everyone. India's edge is on the local build and execution.
- So cost isn't the scarce thing. **Speed to energised capacity** is. A 60 MW data center loses roughly \$14.2 million for every month of delay (Dr A Ansar, The Fast Mode). That's ~\$250M on a 1 GW one, before chip-depreciation is even counted.

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The edge is being a player who can get a data center built and powered fast, into a world that's starving for supply.

Sources (clickable links on Index page): McKinsey (cost split), 2025; JLL 2026 Outlook, Jan 2026; Fast Mode, 2025

And the buildout is already happening

India's capacity has tripled in five years, runs near-full, and is set to grow several times over again.

India operational data-center capacity (MW / GW)



- Forecast approximately 10 GW by 2030 on stated commitments. Indian colocation runs ~90%+ occupancy.

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"Is it happening" is settled. Yes. The real questions are who's building, who'll own it, what's in the way, and how global it can get.

Sources (clickable links on Index page): CEEW, Feb 2026; Colliers, 2025; Jefferies, Oct 2025

The money being announced is serious

Google's Vizag bet is its largest anywhere outside the US, and it's global-serving by design.

Project	Scale	Status
Google + Adani + Airtel, Vizag	\$15bn, up to 1 GW	Broke ground Apr'26
Adani (AdaniConnex)	\$100bn by 2035, 2→5 GW	Announced Feb'26
Reliance, Jamnagar	\$110bn / 7yr; 3 GW flagship	Announced
Microsoft, Hyderabad	\$17.5bn by 2029	Live mid-2026
AWS, India	\$12.7bn by 2030	Committed
TCS HyperVault	1 GW+, w/ TPG	JV signed

Google itself says Vizag will be a hub that "not only serves India but the rest of the world," wired by new subsea cables. At up to **1 GW**, that one campus alone matches roughly two-thirds of India's current capacity.

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Early days, yes.. but there's real concrete here, not just paper. And the biggest commitments are coming from the conglomerates with the balance sheets to deliver.

Sources (clickable links on Index page): Google blog, Oct 2025; BBC, 2026; ET Enterprise AI, Jan 2026; Submarine Networks, Oct 2025; Adani (\$100bn), Feb 2026; TechCrunch (Reliance \$110bn), Feb 2026; Microsoft, Dec 2025; Investment Monitor (AWS), Apr 2026; TCS/TPG, Nov 2025

The government is already pulling this in

The government isn't watching from the sidelines on this one. It's actively pulling the investment in, and the February 2026 budget is the clearest signal yet.

- **Tax holiday to 2047.** The February 2026 budget gives foreign cloud firms zero tax on services sold outside India, as long as they run those workloads from Indian data centers. Today that income is taxed at 35%+. It's a direct pull for hyperscalers to build here and serve the world from here.
- **Tax is only part of it.** There's a 15% cost-plus safe harbour for Indian operators, plus the IndiaAI Mission (~\$1.2bn) already subsidising GPUs for startups. The pieces are being put in place.

"The tax holiday for foreign cloud service firms could do for India's cloud and data center ecosystem what the IT services incentives did in the early 2000s.. it will catalyze large-scale global investment, expand export revenues, and lead to long-term job and capability creation."

S. Anjani Kumar, Partner, Deloitte India (to CNBC)

Sources (clickable links on Index page): CNBC (tax breaks, Deloitte quote), Feb 2026; ET Telecom, 2026; PIB (safe harbour), Feb 2026; BusinessWorld (GPU subsidy), 2024; IndiaAI Mission (gov), Mar 2024

India can take the load that doesn't need frontier chips

Not all AI compute is training. Serving and inference.. running the models for users.. is a huge load, and it can move to where land and power are cheap.

- Every megawatt of serving and inference a hyperscaler runs from India frees up scarce US capacity for the frontier training that has to stay home.
- **On the chips, the real question is access.** India was set for "Tier 2" caps under the US AI Diffusion Rule, which would have limited how many advanced chips it could import. That rule was rescinded in 2025, and as of early 2026 no replacement cap is in force.. so the path is open, for now. Washington has said a new rule could come.

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The crunch isn't only about AI chips.. it's about total compute and total power. India winning the serving-and-inference load is a massive market on its own.

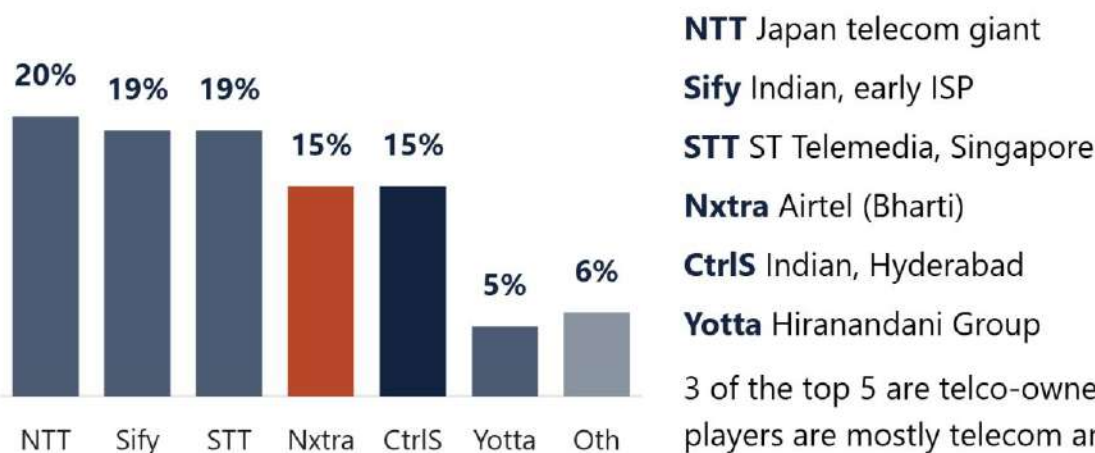
The chip-access rules are the variable I'd watch. Right now the door is open. If a new US rule re-caps India, this whole thesis gets harder. It's not settled.

Sources (clickable links on Index page): JLL (inference ~2027), Jan 2026; Google blog, Oct 2025; US BIS (Diffusion Rule rescinded), May 2025

The winners are builders of power and ports

The companies that win this are the ones who build ports, power plants and telecom networks.

Top operators by share of India capacity today *Shares per Jefferies.*



NTT Japan telecom giant

Sify Indian, early ISP

STT ST Telemedia, Singapore

Nxtra Airtel (Bharti)

CtrlS Indian, Hyderabad

Yotta Hiranandani Group

3 of the top 5 are telco-owned. Today's players are mostly telecom and foreign infra.

- A data center is land, substations, cooling, fibre and subsea cable.. **industrial build muscle, not coding.** Jefferies sees **Adani, Reliance and Airtel together at ~35-40% by 2030**, and **L&T** (which builds ports, power plants and metros) is moving in too, under its Vyoma brand.

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Building gigawatt-scale physical infrastructure.. land, substations, technicians.. is what the conglomerates who already run India's ports, power and telecom do every day. That's why this is their story.

Sources (clickable links on Index page): Jefferies via Outlook Business, Oct 2025; L&T Vyoma (data centers), 2026

The risks you can't engineer away

THE BIG ONE: US-INDIA RELATIONS

When ties soured in 2025 (US tariffs spiked, new \$100k H-1B fees), hyperscalers **paused India data-center deals for months**. The two sides have since signed a trade deal and tariffs have come down sharply, but the friction isn't fully gone.. **H-1B and visa pressure is still live in 2026**. The demand side can pull back for reasons India doesn't control. **A big swing factor**, and one of the few India can't engineer its way around.

- **Power & build-time:** physical capacity takes time.. transmission and grid connections, construction, and regulatory approvals all run long, and the pace varies state to state. Globally, grid-connection waits already exceed four years in primary markets (JLL).
- **The workaround:** "bring your own power".. captive generation on-site. Reliance's Jamnagar runs on its own clean-energy complex; Adani is building dedicated power at Vizag. The conglomerates can bypass the grid bottleneck.

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The US relationship is the real swing factor.. it's the one variable India doesn't fully control. But on its own side India is already moving hard: the policy, the incentives, the captive-power workarounds. I read this as a bumpy start while the geopolitics settles, then a faster rise.

The physical limits, and the bubble question

- **Water & heat:** a typical 100 MW site uses ~2 million litres a day for cooling. S&P says 60-80% of India's data centers face high water stress this decade. And more than half of existing centers already sit in water-stressed regions (WRI India).. exactly the metros where India's heat makes cooling harder.
- **Land & approvals:** a large campus needs multiple sign-offs.. environmental clearance, groundwater permits, state committee approvals.. and the rules differ state to state. Slow and unpredictable.
- **Is it an AI bubble?** For the infrastructure, no.. the supply shortage is so real it prevents overbuilding (Cushman & Wakefield, May 2026; JLL says the same). AI stock valuations are a separate question.

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The approval maze gets cleared.. states are already moving to single-window clearance and data-center zones, the same fast path-clearing I watched when IT took off.

Water and heat are the ones I'd watch hardest.. they'll bite before power does. The fixes exist.. closed-loop cooling, captive water, seawater at coastal sites. It shapes where they build, not whether they build.

Sources (clickable links on Index page): S&P (water stress), 2025; S&P Sustainable1 (water), 2025; WRI India (water stress), 2025; CEEW / WRI (siting), Feb 2026; Cushman & Wakefield (bubble), May 2026

What India actually wins

Most of the world's compute is the serving, the inference, and the everyday internet that has to run somewhere. That huge pool is the part India can actually win.

- Serving and inference is the bigger share of demand over time. JLL expects inference to overtake training around 2027, and inference goes where the users and the capacity are, not where the model was built.
- On top of that sits the **regular, non-AI data-center load**.. the Google searches, the streaming, the everyday cloud. That can be served from India too.

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Frontier training is centralised and power-hungry.. it sits where the chips and the policy are, mostly the US for now. India probably won't win that piece soon.

But serving, inference and the everyday data-center load is a far bigger pool, and it can move to where land and power can be built. Domestic Indian demand is the smaller, lower-margin side story.. the global build is the real opening. And India has turned an opening like this into an industry before.

Sources (clickable links on Index page): JLL (inference ~2027), Jan 2026; McKinsey, 2025

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The screenshot displays the TIGZIG website interface. At the top, the navigation bar includes the TIGZIG logo, 'AI for Analytics', a search bar for '40+ apps...', and links for 'Apps', 'Analysis', 'Blog', 'Feedback', 'Sign In', and 'Hide'. Below the navigation, a dark blue banner reads '40+ Tools for Analytics, Quants & Macro Signals' with an 'App Browser' link. A secondary banner provides statistics: '45 live apps | 6 categories | 200+ build guides | 95-item security checklist | May 24, 2026 last updated'. The main content area features five tool cards: 'TREMOR' (Spot macro early warning signals), 'QUANTS AGENT' (AI-assisted quants reports), 'MFPRO' (Compare mutual funds), 'VIGIL' (Track ESG, workforce gaps), and 'DATS-4' (Chat with any database). Below these cards is a 'Try:' section with sample queries and a '+19 more' dropdown. A 'CURATED ANALYSIS' section follows, listing '12 macro & credit pieces', '14 tool releases', and 'hand-picked' items. At the bottom, an 'APPS & TOOLS' section is organized into three categories: 'Analyze' (7 tools), 'Database AI' (6 tools), and 'Tools' (8 tools). Specific tool highlights include 'TREMOR Macro Stress Sign...' (NEW), 'DATS-4 Database AI Suite - V4', and 'DUCKIT CSV to DuckDB'.