

Japan / Site / Published revision 1

Colt Osaka Keihanna Data Centre

Unknown MW · Total facility power not established

See capacity evidence for reported claims.

Also known as: Colt 京阪奈データセンター · Osaka Keihanna Data Centre

Development status: operational, planned

Colt-operated hyperscale colocation site in Keihanna Science City, Seika, Kyoto Prefecture, serving the Osaka/Kansai market. Opened in March 2023 with phased delivery. Ultimate design claims of 45 and 45.9 MW differ from an undated operator completion post reporting 40.5 MW delivered; current commissioned IT capacity remains unresolved. The 2024 report also schedules expansion through Q3 2030, which requires reconciliation with the completion post.

Last researched: 2026-10-09 | Last verified: Not independently verified

Tracked dataset only. Unknown values are not zero. Evidence dates and measurement definitions must be considered when comparing sites.

Site photographs

No approved property photo available.

Site profile

Field	Published information
Operator	Colt Data Centre Services [1] [3] [13]
Owner	Unknown
Business model	colocation [1] [8]
Scale	hyperscale [1] [4]
Country	Japan [3] [4]
State / region	Kyoto Prefecture [6] [14]
Metro area	Osaka / Kansai [3] [4]
City / locality	Seika [6] [7]
Address	1-6-1 Hikaridai, Seika, Soraku District, Kyoto 619-0237, Japan [6]
Coordinates	Unknown · unknown precision. Address supported by a government-hosted vacancy naming the COLT Keihanna maintenance centre; no corroborated property-marker coordinates obtained.
Parent	Not assigned

Capacity evidence

Do not add these claims together. IT load, facility power, grid connection and unspecified power are different measurements. Cumulative and incremental scopes remain separate.

Measurement	Development scope	Evidence / accounting
45 MW IT load	Ultimate consolidated site capacity planned · cumulative	[1] conflicting · 2026-10-09 Excluded from totals. As-of is retrieval date for undated operator page. Page combines second-phase completion with future full-completion language; not evidence that 45 MW is commissioned.
45.9 MW Unspecified power	Designed capacity of consolidated site planned · cumulative	[3] conflicting · 2023-03-13 Excluded from totals. Announcement date. Release body calls this designed capacity; opening does not establish delivery of the full figure.
8.1 MW Unspecified power	Phase one operational · unclear	[10] reported · 2023-12-31 Excluded from totals. As-of represents end of the report's named 2023 year, not an exact commissioning date. Search-indexed report records phase-one completion; direct PDF access failed.
40.5 MW Unspecified power	Total delivered across four phases operational · cumulative	[9] conflicting · 2026-10-09 Excluded from totals. As-of is retrieval date because publication date is unavailable. Operator reports delivered capacity and final handover, but does not specify IT versus facility power or customer energisation.
45.9 MW IT load	Ultimate site capacity, phase seven schedule planned · cumulative	[11] conflicting · 2030-09-30 Excluded from totals. As-of normalizes the displayed Q3 2030 target to quarter end; it is a planned target, not an actual delivery date. Search-indexed report excerpt only.

Development timeline

2021-08-31 · announcement · Construction announced

Operator announced commencement and expected service in early 2023; other sources describe September 2021 groundbreaking. [4]

2023-03-13 · actual_opening · Site opening announced

Opening release; subsequent operator blog identifies March 2023 as phase-one launch, so full design power must not be treated as delivered. [3]

2023-10 · reported_actual_conflicting · Alternative phase-one date

2024 report excerpt labels phase one 8.1 MW IT in October 2023, conflicting with March launch language. [11]

2030-Q3 · planned · Phase seven ultimate capacity target

2024 report excerpt schedules 45.9 MW IT; relationship to the later undated final-handover claim is unresolved. [11]

Disclosed specifications

Area: 42,000 m² gross site area

Operator terminology also varies to gross technical site area and space; separate floor area and parcel area are not resolved. [1]

Structure: Five-storey steel, base-isolated earthquake-resistant structure

Operator design datasheet; no independent structural certification checked. [8]

Electrical design: 77 kV main/sub receiving systems; dual feed; distributed redundant UPS; N+1 diesel generators

Voltage is not grid capacity. Datasheet also specifies 48-hour fuel storage at full load. [8]

Design density: 3 kW/m² IT power; maximum 2.6 MW per data hall

Design specification, not measured rack density or installed hall capacity. [8]

Cooling: N+1 dedicated per hall; hot-aisle containment; CRAH/pump UPS backup and thermal storage

Operator design datasheet. [8]

Efficiency: Peak PUE below 1.6

Design datasheet value; not measured operating PUE. 2024 search excerpt separately gives annualised target ≤ 1.48 . [8]

Resilience: Colt Tier 3 specification

Operator design claim; independently issued Uptime Tier certification not established. [1]

Connectivity: Carrier-neutral, national/international carrier choice

Operator claim; specific active carriers and paths not disclosed here. [1]

Additional fibre connection: JR West Optical Network connection planned

Provider explicitly labels this planned; do not record as live connectivity. [14]

Reported sustainability and assurance: 100% renewable electricity; water-free cooling; TRUE Zero Waste to Landfill; ISO 27001; SOC2 Type II

2024 operator report search excerpt only; certificates, scopes and current validity not inspected. [11]

Research gaps

- Current commissioned and customer-available IT capacity
- Legal property-owning SPC and current ownership
- Corroborated coordinates and parcel boundaries
- Phase numbering and conflicting commissioning dates
- Whether the reported final handover supersedes the expansion schedule through 2030
- Named tenants and rack count

- Grid connection capacity and total facility demand
- Reusable completed-property photography

Sources and field evidence

Attribution does not establish independent verification or permission to reuse images. URLs refer to public evidence.

[1] Osaka Keihanna Data Centre

<https://www.coltdatacentres.net/en-GB/our-locations/data-centre-locations-asia/osaka-keihanna>

Published: Unknown · Retrieved: 2026-10-09

Operator identifies Keihanna Science City, hyperscale customer services, carrier neutrality and second-phase completion, while describing 45 MW as capacity upon completion.

[2] Colt 京阪奈データセンター

<https://www.coltdatacentres.net/ja-JP/our-locations/data-centre-locations-asia/osaka-keihanna>

Published: Unknown · Retrieved: 2026-10-09

Japanese operator facility page establishes the local-language name and Japan facility identity.

[3] Colt DCS launch 45MW Osaka Keihanna Data Centre

<https://www.coltdatacentres.net/de-DE/press-releases/data-centres/2023/03/osaka-keihanna-data-centre>

Published: 2023-03-13 · Retrieved: 2026-10-09

Opening announcement identifies Japan and Keihanna Science City near Osaka; body describes 45.9 MW designed capacity and 75% committed capacity, rather than commissioned power.

[4] Colt DCS to Build New 45MW Osaka Keihanna Data Centre

<https://www.coltdatacentres.net/en-GB/press-releases/data-centres/2021/08/new-45mw-osaka-keihanna-data-centre>

Published: 2021-08-31 · Retrieved: 2026-10-09

Construction announcement describes 45 MW, 42,000 square metres, Kansai location and expected early-2023 service; links project to Fidelity/Mitsui venture.

[5] One million safe working hours achieved at Osaka Keihanna data centre

<https://www.coltdatacentres.net/en-GB/blogs/data-centres/2023/05/osaka-keihanna-safe-working-hours>

Published: 2023-05-23 · Retrieved: 2026-10-09

Explicitly reports phase-one launch in March 2023 and phase-two construction underway.

[6] Hello Work vacancy 27010-41644261: building equipment management in Seika

<https://www.hellowork.mhlw.go.jp/kensaku/GECA110020.do?action=dispDetailBtn&fullPart=1&iNFTeikyoRiyoDtiID=&jgshNo=BXDGPsEeY1QXfAbOkncDIg%3D%3D&kjKbn=1&kjNo=2701041644261&ksNo=&newArrived=&screenId=GECA110020&tatZngy=1>

Published: 2026-09-09 · Retrieved: 2026-10-09

Government-hosted employer vacancy names COLT京阪奈メックスセンタ at 京都府相模郡精華町光台1-6-1 and describes resident data-centre equipment maintenance. Publication date uses displayed acceptance date.

[7] Seika Town Clean Partner recruitment

<https://www.town.seika.kyoto.jp/kakuka/kensetsu/1/cleanpartner/938.html>

Published: Unknown · Retrieved: 2026-10-09

Municipality lists colt京阪奈データセンター as a participating group, with activity on Hikaridai district roads.

[8] Colt Osaka Keihanna Datasheet

<https://www.coltdatacentres.net/-/media/Files/asia-data-sheets/2021/colt-osaka-keihanna-datasheet.pdf?hash=919511D3E6455DAB9C7823CCA1E37250&rev=521809b697924ca5aa560561b2fa23c3>

Published: Unknown · Retrieved: 2026-10-09

Opened four-page operator PDF supplies building, electrical, cooling, density, resilience and connectivity design specifications; date not established.

[9] Keihanna data centre in Osaka completed with Takenaka Corporation

https://www.linkedin.com/posts/coltdatacentreservices_datacentres-keihanna-osaka-activity-7361050845448208384-xWaV

Published: Unknown · Retrieved: 2026-10-09

Accessible operator post reports final handover with Takenaka and 40.5 MW delivered over four phases. Only relative age displayed; exact publication date and power basis unresolved.

[10] 2023 Sustainability Highlights Report

<https://www.coltdatacentres.net/-/media/Files/guides/colt-dcs-sustainability-highlights-report-2023-full-v-7180623.pdf>

Published: Unknown · Retrieved: 2026-10-09

Search-indexed operator report records site launch and phase-one completion at 8.1 MW during 2023. Direct opening failed because the PDF exceeded tool size limits.

[11] 2024 Sustainability Highlights Report

<https://www.coltdatacentres.net/-/media/Files/guides/colt-sustainability-report-2024.pdf?hash=F69EB12981E4A2A8333F153F52F8C3B8&rev=f78dde9f65d6486e92be699706d6bc51>

Published: Unknown · Retrieved: 2026-10-09

Search-indexed page 17 reports 45.9 MW ultimate IT capacity and dated phase figures from 8.1 to 45.9 MW through Q3 2030. Full PDF opening failed on size limits; schedule and sustainability details remain excerpt-level evidence.

[12] Mitsui's Japanese Data Centre Development Fund agreement to launch joint venture with Fidelity

https://www.mitsui-am.com/pdf/en/20210714_Press_En.pdf

Published: 2021-07-14 · Retrieved: 2026-10-09

Opened original release describes 50:50 asset-holding and operating SPCs, initial Kyoto and Chiba projects, and Colt development/operations services. Does not name the current Keihanna property-owning SPC.

[13] Fidelity and Mitsui Form Joint Venture to Accelerate Hyperscale Strategy in Japan

<https://www.coltdatacentres.net/en-GB/press-releases/data-centres/2021/07/fidelity-and-mitsui-form-joint-venture>

Published: 2021-07-14 · Retrieved: 2026-10-09

Operator release identifies equal venture ownership and Colt as exclusive design, development, operations and customer-service provider.

[14] JR West Optical Network: optical fibre core service

<https://www.jrw-hikari.net/business/service2.html>

Published: Unknown · Retrieved: 2026-10-09

Network provider lists Colt Keihanna under Kyoto Prefecture, explicitly marked connection planned.

Name: [1] [3]

Aliases: [1] [2]
Kind: [1] [5]
Country: [3] [4]
Region: [6] [14]
City: [6] [7]
Metro: [3] [4]
Address: [6]
Operator: [1] [3] [13]
Business Model: [1] [8]
Scale: [1] [4]
Statuses: [3] [5] [11]
Location: [6]
Summary: [1] [3] [5] [6] [9] [11]
Stable identifier: e5d886b3-dd81-48b7-b7a0-34d3da6723d9