

Australia / Facility / Published revision 1

NEXTDC S2 Sydney

30 MW • IT load

S2 facility advertised total IT capacity

Also known as: NEXTDC S2 • S2 Sydney • S2 Macquarie Park • Giffnock Data Centre

Development status: operational

Operational NEXTDC hyperscale colocation facility in Macquarie Park, Sydney, distinct from S1. Advertised IT capacity is 30 MW, with 30 MW installed reported in FY21. Contractor-reported 2025 power upgrades have no disclosed incremental MW.

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



Photo: S2 exterior photograph from iTnews's property gallery published 5 August 2020; capture date not established. [13]

Attribution: www.itnews.com.au. Published: Unknown; captured: Unknown; retrieved: 2026-10-09.

Rights: Gallery states copyright iTnews.com.au, all rights reserved. Photographer attribution and import/reuse permission are unresolved; review before importing. Publication and capture dates were not independently established. Research-selected property image; reviewer must confirm site identity, suitability and rights before publication.

Site profile

Field	Published information
Operator	NEXTDC [1] [11]
Owner	Unknown
Business model	colocation [11]
Scale	hyperscale [2]
Country	Australia [5] [10]
State / region	New South Wales [2] [5]
Metro area	Sydney [11]
City / locality	Macquarie Park [1] [2]
Address	6-8 Giffnock Avenue, Macquarie Park NSW 2113 [2] [7] [9]
Coordinates	-33.785125, 151.125301 · approximate precision. PeeringDB facility geocode for the address corroborated by NEXTDC and NSW planning records; marker placement has not been independently checked against property boundaries or Google Maps.
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
30 MW IT load	S2 facility advertised total IT capacity operational · cumulative	[1] reported · 2026-10-09 Excluded from totals. As-of is retrieval date of undated operator page, not commissioning date or measured consumption. Current brochure calls the same figure target IT capacity.
30 MW Unspecified power	S2 total installed capacity following FY21 fitout operational · cumulative	[3] reported · 2021-06-30 Excluded from totals. As-of represents FY21 reporting period end; announcement published 27 August 2021. Installed capacity basis is not explicitly labelled IT in this announcement; overlaps c1.
22 MW Unspecified power	S2 total installed capacity reported for FY20 operational · cumulative	[4] reported · 2020-06-30 Excluded from totals. As-of represents FY20 period end; published 27 August 2020. Historical installed capacity superseded by FY21 report; do not add to subsequent totals.

Development timeline

2017-08-07 · actual_approval · Development application approved

Sydney North Planning Panel approved LDA2017/0192 for the Giffnock Avenue data centre. [8]

2020 · actual_completion · Initial building completed

Contractor reports initial construction completion in 2020; early access and later fitout should be distinguished from building completion. [5]

FY21 · actual_fitout · Fitout reached 30 MW installed capacity

Operator reports completed fitout during the financial year ended 30 June 2021. [3]

2025-06-12 · announcement_actual_completion · Power upgrade practical completion announced

Multiplex announced integration of six prefabricated skids; no incremental MW was disclosed. [6]

Disclosed specifications

Technical space: 8,700 m²

Technical space, not land or gross building area. [2]

Rack capacity: 4,543

Advertised capacity, not occupied rack count. [2]

Building levels: 8

Contractor description; planning approval also describes eight storeys. [5]

Cooling: Hot aisle containment; indirect free-cooling CRAC; modular cooling towers; N+1 cooling

Operator-reported configuration; minimum 24-hour on-site water storage also advertised. [1]

Energy efficiency: PUE 1.29 yearly average / 1.15 yearly lowest

Operator webpage figures; brochure describes target PUE and load-dependent annual/instantaneous ratios. No independent measured reporting period established. [1]

Resilience certification: Uptime Institute Tier IV design and construction

Operator claim; current certificate validity was not independently checked. [1]

Connectivity: Carrier-neutral colocation and interconnection with S1 and S3

Network links do not establish a parent campus relationship or named tenant contracts. [11]

Power upgrade configuration: Three modified switchrooms and three generator enclosures

Contractor describes 2025 upgrades without additional MW. [5]

Public network presence: EdgeIX Sydney, IX Australia Sydney and MegaIX Sydney

PeeringDB listings; network presence is not proof of customer tenancy or contracted power. [10]

Research gaps

- Current legal property owner; 2017 approval names Next DC Limited as applicant/owner, but current title was not established.
- Exact property marker and boundaries.
- Current metered IT load, billing utilisation, available capacity, facility power and grid connection capacity.
- Incremental MW and precise technical scope of the 2025 upgrades.
- Land area, gross building area and rack power density.
- Current independent certification validity and site-specific renewable energy procurement.
- Named customer tenancy contracts and reusable exterior photo rights.

Sources and field evidence

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

[1] S2 Sydney NEXTDC Data Centre

<https://www.nextdc.com/data-centres/sydney-data-centres/s2-sydney>

Published: Unknown · Retrieved: 2026-10-09

Operator identifies S2 in Macquarie Park, with 30 MW IT capacity, 8,700 m² technical space and 4,543 rack capacity; describes Tier IV design/construction certification, cooling and interconnection.

[2] Sydney Data Centres Technical Specifications

[https://www.nextdc.com/hubfs/2026_NEXTDC_Tech_Specs_Sydney_Data_Centres%20\(2\).pdf](https://www.nextdc.com/hubfs/2026_NEXTDC_Tech_Specs_Sydney_Data_Centres%20(2).pdf)

Published: Unknown · Retrieved: 2026-10-09

Pages 3-5 identify the Australian facility address and target IT capacity; S2 section describes a hyperscale facility. Publication date not established from filename.

[3] NEXTDC announces strong FY21 results

<https://www.nextdc.com/news/nextdc-announces-strong-fy21-results>

Published: 2021-08-27 · Retrieved: 2026-10-09

FY21 development activity reports completed S2 fitout and total installed capacity of 30 MW.

[4] NEXTDC announces strong FY20 results

<https://www.nextdc.com/news/nextdc-announces-strong-fy20-results>

Published: 2020-08-27 · Retrieved: 2026-10-09

FY20 development activity reports building completion and four additional halls, bringing installed capacity to 22 MW.

[5] NEXTDC S2 Sydney Data Centre — Multiplex project

<https://www.multiplex.global/projects/nextdc-s2-sydney-data-centre/>

Published: Unknown · Retrieved: 2026-10-09

Contractor identifies completed facility in NSW, Australia, initial completion in 2020, eight levels, 30 MW total IT capacity and 2025 switchroom/generator upgrades.

[6] Announcing Practical Completion at NEXTDC S2 Sydney

<https://www.multiplex.global/news/announcing-practical-completion-at-nextdc-s2-sydney-030/>

Published: 2025-06-12 · Retrieved: 2026-10-09

Contractor announces expansion practical completion after integrating six prefabricated skids; additional MW is not stated.

[7] Giffnock Data Centre — NSW Planning Portal

<https://www.planningportal.nsw.gov.au/planning-panel/giffnock-data-centre>

Published: Unknown · Retrieved: 2026-10-09

Approved LDA2017/0192 at 6-8 Giffnock Avenue; describes eight-storey data centre and Ryde local government jurisdiction.

[8] Sydney North Planning Panel — Determination and Statement of Reasons

<https://apps.planningportal.nsw.gov.au/prweb/PRRestService/DocMgmt/v1/PublicDocuments/DATA-WORKATTACH-FILE%20PEC-DPE-EP-WORK%20PPS-2017SNH049!20190614T234041.775%20GMT>

Published: 2017-08-07 · Retrieved: 2026-10-09

Determination approves the Giffnock Avenue development; schedule names Next DC Limited as applicant/owner at that time.

[9] NEXTDC S2 — Development Application Clarifications regarding Amenity and Hazards

<https://apps.planningportal.nsw.gov.au/prweb/PRRestService/DocMgmt/v1/PublicDocuments/DATA-WORKATTACH-FILE%20PEC-DPE-EP-WORK%20PPS-2017SNH049!20190614T234041.101%20GMT>

Published: 2017-08-03 · Retrieved: 2026-10-09

Aurecon letter explicitly links NEXTDC S2 to 6–8 Giffnock Avenue and LDA2017/0192.

[10] NEXTDC S2 — PeeringDB

<https://www.peeringdb.com/fac/6792>

Published: Unknown · Retrieved: 2026-10-09

Facility record gives matching Macquarie Park address, AU country code and geocode -33.785125, 151.125301; lists exchanges and networks.

[11] Sydney Data Centres — Colocation and Cloud Connectivity

<https://www.nextdc.com/data-centres/sydney-data-centres-colocation>

Published: Unknown · Retrieved: 2026-10-09

Operator identifies S1, S2, S3 and S6 as Sydney carrier-neutral colocation facilities.

[12] Inside NEXTDC's new Sydney data centre, S2

<https://www.itnews.com.au/gallery/inside-nextdcs-new-sydney-data-centre-s2-551319>

Published: 2020-08-05 · Retrieved: 2026-10-09

Dated gallery reports newly opened S2 in Macquarie Park and provides exterior/interior property photographs; capture dates and reuse permission are not established.

[13] Property photo · www.itnews.com.au

<https://www.itnews.com.au/gallery/inside-nextdcs-new-sydney-data-centre-s2-551319>

Published: Unknown · Retrieved: 2026-10-09

S2 exterior photograph from iTnews's property gallery published 5 August 2020; capture date not established. Original image: https://i.nextmedia.com.au/Utils/ImageResizer.ashx?c=0&h=450&n=https%3A%2F%2Fi.nextmedia.com.au%2FGalleries%2F20200805040755_Xenia_S2_Exteriors_003.jpg&s=0&w=800

Name: [1] [9]

Aliases: [1] [7] [9]

Kind: [1] [5]

Country: [5] [10]

Region: [2] [5]

City: [1] [2]

Metro: [11]

Address: [2] [7] [9]

Operator: [1] [11]
Business Model: [11]
Scale: [2]
Statuses: [1] [3] [12]
Location: [10] [2] [7]
Summary: [1] [3] [6] [11]
Media: [13]
Stable identifier: 01b1de15-d8c5-4874-aecd-3d76c1e9593b