Stantec

Mission Critical

Data Centre Capability Statement

Buildings | Australia & New Zealand

A community of experts

Stantec's global network of designers, engineers, scientists and project managers work together at the intersection of community, creativity and client relationships. Careful balancing of these priorities results in projects that advance the quality of life in communities across the globe.

But wherever Stantec is located it is our local teams who have the skills, experience and knowledge to drive the projects in their own back yards. In Australia and New Zealand (ANZ), our local offices of award-winning multi-disciplinary engineers have been helping both private and government clients build communities for over 60 years.

Our people have long-standing client relationships and are inspired to advance the communities in which they live, delivering cost-effective, quality consultancy services.

Whether we're partnering with clients to design a hospital or mixed-use development, a research facility or industrial park, an education campus or airport, we design with community in mind because we believe in the **power of places to transform lives**, to **meet the needs of a community today**, to help **fulfil its potential tomorrow**.

Our global business

25K	400+	6
Employees	Locations	Continents

#01

From start to finish. Our team leaders continue to manage the projects for which they tender, right through to completion. Change in team management causes delays and undermines a project's stability and design direction. Continuity is more conducive to achieving your goals within programme and budget.

#02

Value-adding innovation. Stantec's Creativity & Innovation program encourages our global network of engineers to develop tools, processes and technology. These creative ideas might save time at the design stages of a project, reducing client costs. Others offer powerful marketing potential for stakeholder engagement. Celebrating our best ideas with investment means they are fully developed to benefit all our clients and communities, wherever they may be.

#03

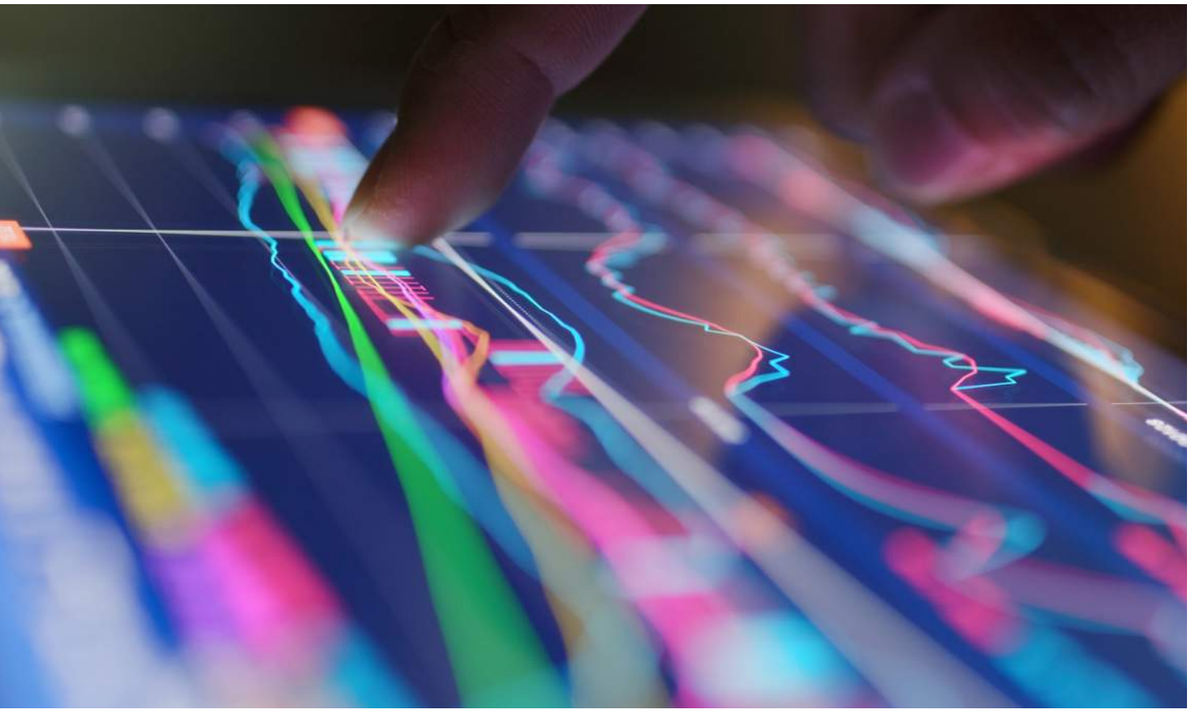
The right experience. From research stations in Antarctica to solar projects in rural Australia. From bespoke luxury residences to affordable high-rise apartments. From stadiums to play parks… and everything imaginable in between. We have the right skillsets to help you achieve your construction goals.

#04

Focus on buildability. Engaging with engineers in the early stages can save time and money in the long-term. Pragmatic spatial considerations, site-appropriate construction methods, informed materials selection, compliance with legislation and consideration of the operational environment. Our advice gives reassurance to stakeholders, boards and financiers that all factors have been fully considered.

#05

We're at the right tables. Our people are active proponents within Australia's property industry, seeking positive change on behalf of their communities. The influential tables at which we sit include the Urban Development Institute of Australia, the Property Council of Australia, Consult Australia and Green Building Council of Australia.



We don’t just say we deliver outstanding solutions and client service. We prove it.

Stantec has been recognised numerous times at the independent Financial Review Client Choice Awards (Australia & New Zealand).

2019 Financial Review Client Choice Awards Winner:

- Most Client Focused Consulting Engineer

2017 Financial Review Client Choice Awards Winner:

- Best Consulting Engineering Firm (revenue $50m-$200m)

2016 Financial Review Client Choice Awards Winner:

- Best Provider to Property Sector

2015 Financial Review Client Choice Awards Winner:

- Best Consulting Engineering Firm (revenue $50m-200m)
- Best WA Firm
- Most Client Focused Consulting Engineer

FINANCIAL REVIEW
CLIENT CHOICE AWARDS 2019
WINNER
Independently researched by beaton

#5

Ranked fifth most sustainable corporation in the world

2021 Corporate Knights Global

Net Zero

Carbon neutral by 2022, then net zero by 2030

Our Operational Pledge

27 Locations

Across ANZ

8x Best Employer

Aon

1800+ People

Regionally

60+ Years

in the Region

Our innovative approach

Stantec know data centres, and are experienced in designing robust and reliable and systems to minimise costly downtime.

We specialise in large scale projects for clients in multiple industries including, defence, banking, security and federal government departments and we understand the nature of this work is highly confidential.

Stantec has a strong track record in delivering innovative solutions to projects over many years. Whilst technical engineering can be the focus of innovation, at Stantec, we believe design is deeper than that. It must exist in your approach, methods, people, how they engage, how they deliver, and how they go the extra mile to provide an outcome that is different from the norm.

So, how do we at Stantec deliver innovation and continuous improvement?

From reality engineering, 3D photogrammetry and utilising auralisation tools - we ensure we are bringing the best innovation for your project.

Our Innovation

First, it starts with our people. We have been accredited as a Best Employer for a record six years in a row – something that no other engineering firm has been able to achieve even once! This means our people genuinely enjoy what they do and are motivated to do a great job. We provide freedom to our engaged workforce to explore and challenge to unlock new ways of doing things - this results in committed, engaged and engineers who are more likely to collaborate, share and have the space to chase new ideas. It becomes more than work.

Engaged staff generally lead to long term staff retention, which filters through to project outcomes - collective knowledge is retained on the project to ensure innovative concepts are turned into reality.
Our organisational structure supports the ability to create, be autonomous and explore new ways.

Our Project Engineer system allows each discipline Project Engineer to have the freedom and full responsibility for the project.

Reality Engineering

Stantec has developed an innovative virtual reality combination of Google maps, architectural models, drone imagery and a gaming platform to deliver Reality Engineering. This enables people to walk through new development sites and integrate the built form model to adequately understand and appreciate the design.

We have begun to use this in the land development sector to enable prospective purchasers of land to integrate their house design onto the lot and understand their new home before purchase.

We have also explored using this developed software in briefing phases of building projects to enable user groups to analyse the design in virtual reality and foster more thorough briefing and engagement of stakeholders and, ultimately, more satisfied clients and end-users.

We have also provided our Reality Engineering services to develop prototype hotel rooms in virtual rather than build many physical prototypes. Our Reality Engineering model can be adjusted and pioneered on the fly, enabling better decision-making and issue resolution without the need for physical verification, saving the developer high costs.

How it will benefit your project?

A Reality Model will create a deeper bonding engagement and interactivity with all stakeholders and your end customer. This technology can help convey complex situations to other stakeholders like local authorities to help get your development approved. The model is only one way you can connect with stakeholders - we can generate many different media types for all other environments, from one-on-one sales to web-based engagement.

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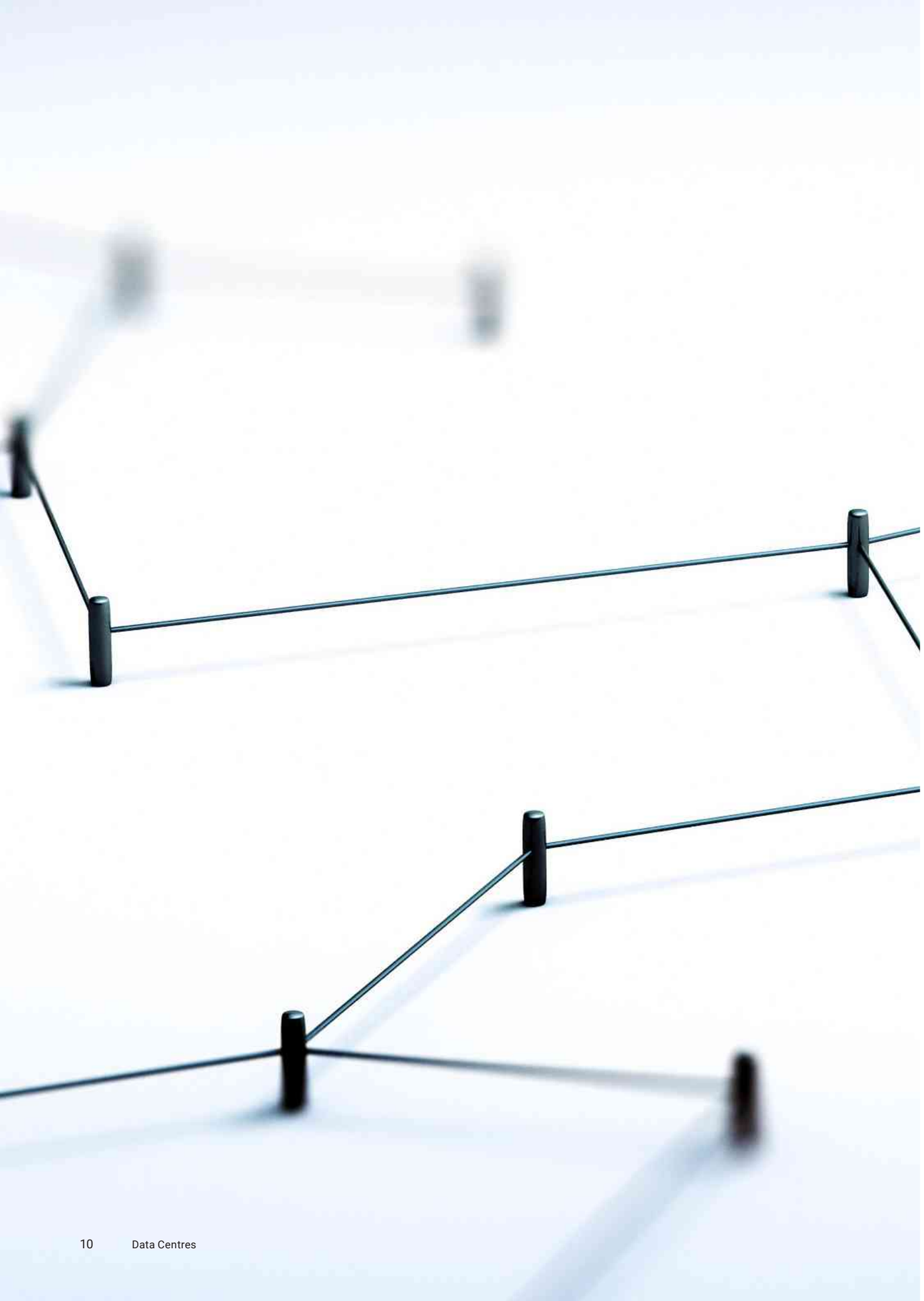

We provide services to support your mission-critical project

Stable and reliable power is essential to support the 24/7 continuing operation of any technology dependent organisation.

We provide integrated engineering, design and project management services for operations and users of mission critical systems and facilities. Mission critical facilities are so complex that it is no longer sufficient to specify and install electrical “black boxes” without a clear understanding of each item’s internal operations. A building is a system of multiple components that require detailed knowledge and experience if users are to achieve maximum benefit and payback.

Our analysis and remediation action plans address power distribution systems analysis, resilience/ reliability studies, fault tolerance, system or component failures and are based on sound commercial and business understanding of the costs of uptime vs. downtime. We can provide electrical capabilities in the following:

- Uninterruptible Power Supply (UPS)
- Emergency power generators
- Power distribution systems
- Fire alarm and security systems
- Communications cabling systems designed to EIA TIA & BICSI standards
- Short circuit studies
- Resilience and single point of failure studies (SPOFs)
- Protection discrimination studies
- Capacity planning

Our multi-disciplinary capacity include:

- Consistent systems, procedures and quality control across all disciplines.
- A single external point of contact will coordinate all Stantec activities, directing and managing the information flow to and from the senior Project Engineers working on the project. Each of them would attend meetings as expected to comprehend master planning initiatives best.
- Designs are fully explored and integrated through a shared Revit model and continuously updated, resulting in fewer clashes and minimising revision time.
- Our team can assist in advising the finest site selection to build your data centre to verify power and water availability
  Open, collaborative engineering environment, under one roof.
- Documentation is fully coordinated in-house before issue, reducing errors and omissions during construction.
- Test failure abilities to certify your project can withstand operations in the case of a disaster
- Multinational cloud providers.
- Independent Commissioning Services.

Our experience

To successfully deliver this project, we will draw upon our extensive Data Centre experience located both locally, and regionally within Melbourne, Brisbane, Sydney, Perth and Adelaide. We have provided a summary list below of our capacity within other states

Project	Details
Australia Post	Dandenong Mail Handling Centre: Power and cooling upgrade to accommodate new blade servers. Duty chilled water air conditioning plant with standby DX plant. N+1 mechanical and electrical infrastructure
Australia Post	Hobart Mail Handling Centre: Server room expansion and power and cooling up-grade to accommodate new blade servers. Duty/standby DX air conditioning plant. N+1 mechanical and electrical infrastructure
Canberra Data Centre	Fyshwick 18MW Concurrent Maintainable and Operable Data Centre (design review and ICA)
Canberra Data Centre	Hume 4.5MW Concurrent Maintainable and Operable Data Centre (Design review and ICA)
City West Water	Primary computer room
Commonwealth Bank	Disaster Recover Centre – Homebush. Facility to allow the CBA's mission critical business units to decant from the Sydney CBD into Homebush to allow the business to continue to operate in the event of a natural disaster.
Crown Casino	Crown Data Centre, Melbourne – Upgrade to Crown primary computer room including duty/standby air cooled chillers, economizer "free cooling system", inertia banks, primary and secondary pumping, duplicate chilled water infrastructure
Ericsson	Ericsson Model & Test Facility, Port Melbourne: 2500sqm Concurrent Maintainable and Operable facility, N+1 redundancy accommodating 550 racks
Goldman Sachs	Goldman Sachs – Primary Computer Room (Dealers) Tier 3 Facility. Design and ICA roles
Hobart Airport	Primary computer room, supporting all ticketing and flight operations
HP Burwood	Cloud server data centre – 60 rack spaces
MIT University	Primary computer rooms of approximately 80kW
National Broadband Network	Mechanical, Electrical, Structural and Fire protection for NBN sites of 150 to 200kW in Launceston and Hobart. Including generator installations of 1.3MW
Qantas Call Centre	Qantas Call Centre Main Computer Room, Melbourne: Concurrent Maintainable and Operable design with redundancy of N+1, raised floor design with cable pathway below floor and overhead air conditioning system.
RMIT University	Primary computer room
State Trustees	State Trustees Data Centre, Melbourne – 140kW Concurrent Maintainable and Operable data centre to support State Trustees operations. Including two Capstone Natural Gas Micro Turbine Generators (C65) running to offset carbon emissions of data centre to achieve required carbon emission and energy use targets
Victorian Comprehensive Cancer Centre, Melbourne	500kW Concurrent Maintainable and Operable data centre to support both VCCC and department of health needs
Woolworths Ltd - Data Centres (NSW)	The project included two buildings with a technical floor area of 3,000sqm each and the two data centre was designed to achieve a Tier 3 classification.
Bankwest Data Centres	Various upgrades of power and cooling systems.
Amcom – Henderson Data Centre	Upgrade and remediation of electrical and UPS systems to provide additional power supply capacity and redundancy.
SAAB Data Centre	Tier level conformance of Saab's 6 data rooms at their South Australian Head Quarters.
CSIRO Data Centre	Part of the Square Kilometre Array (SKA), this 200sqm Tier II facility is an existing building for the CSIRO, ARRC headquarters.

Project value:
Confidential

Completion:
2017

ANZ Melbourne Data Centres

We have been providing engineering services to ANZ Bank for the last 7 years. Our involvement started with a review of their current data centre portfolio and formulation of the ANZ Global Data Centre Strategy. The outcome of this was the requirement for two new data centres in Melbourne which have recently been completed.

Our role on these projects was as peer reviewer, sustainability consultant and Independent Commissioning Agent. Our peer review role included review of the consultant's designs against the project brief, Uptime Institute requirements and industry best practice at both D&C tender issue and final design once the builder was engaged. The Independent commissioning agent role included Factory acceptance testing for all major items of plant, Site acceptance testing, Integrated systems tests. Stantec were responsible for formulating test scripts and supervising/witnessing tests

Stantec have also provided engineering services for the following projects:

- Retrofitting of containment to existing data halls including CFD modeling
- CRAC unit installation and replacements
- PDU installation and replacements
- Vehicle intrusion barriers
- Chilled water ring main remediation and duplication to remove single points of failure

Project value:
Confidential

Completion:
Various

Telstra Exchanges and Data Centres

We have been providing engineering services to Telstra for over 14 years, including designed and supervised electrical and mechanical upgrades and replacements at various exchanges. Projects have ranged from 100kW to 8MW and included: generators, switchboards, power distribution, chillers, cooling towers, pipework, pumping and air handling plants. More recently, Stantec has provided consulting services to Telstra for emerging technologies in the Mission Critical and Data Centre market, and advice on site selection criteria for future Data Centre developments. Exchange projects have included:

- Exhibition TE – Network 2020 PODs
- Davey TE Network 2020 PODs and substation upgrade
- Exhibition TE - Full floor HVAC upgrades to levels 6, 8, & 11 to cater for up to 1MW per floor per floor through a combination of central AHU's including economy cycles and on floor CRAC units.
- Lonsdale TE – Chilled water riser upgrade on operational facility, provision of additional 8MW chilled water riser
- HVAC and chiller upgrades and replacements at various Exchanges and Data Centers ranging from 300kW to 3MW including chillers, cooling tower, pipework, pumping and controls systems
- HVAC installations for NBN of 150 to 200kW in Launceston St John TE and Hobart Davey TE. Including generator installations of 1.3MW
- Network POD Deployment:
- Charlotte St TE, QLD
- Woolloongabba TE, Qld
- Pier St TE, WA
- Cannington TE, WA
- Wellington TE, WA
- Katanning Exchange - HVAC and Power upgrade

Project value:
$207m

Completion:
2018

Karratha Health Campus – Central Energy Plant

Karratha Health Campus (KHC) provides care to West Pilbara residents and represents the largest hospital infrastructure investment undertaken in regional WA. One of the major issues with any hospital design is the practical location of major plant with its attending noise, vibration and maintenance concerns. Our Mechanical, Electrical and Hydraulics teams addressed KHC's specific services needs in a harsh, remote, environment prone to cyclonic winds, proposing a central energy plant (CEP) solution.

Set near the main hospital, the CEP hosts primary and back-up power, cooling and heating and co-locates high-load items like chillers close to power sources, saving capital costs. The consolidated arrangement of major engineering plant offers advantages; maintenance access is simplified and minimises patient disruption, and within KHC space is maximised for medical purposes. The impact of noise and vibration is also limited and reduced through acoustic treatment at a single site, rather than multiple areas around campus.

Our CEP design offers an efficient and economical solution, while maintaining robust services provision for the continuation of activities in a post-disaster situation.

Project value:
$226 million

Completion:
2012

QEII Medical Centre - Central Energy Plant – ICT

The Queen Elizabeth II Medical Centre Central Energy Plant (CEP) project was the major enabling project for the redevelopment of the QEII Medical Centre (QEIIMC) site in Nedlands and was delivered as a two-stage managed contract by Brookfield Multiplex during 2011 and 2012.

We were responsible for the design and construction phase services for all the building services disciplines on this challenging project. Stantec worked with Brookfield Multiplex and their services integration sub-contractor IBMS to meet the State's brief to provide:

- A centralised building-wide management and monitoring tool to assist in reporting and responding to plant failures.
- Alarm monitoring.
- Full visibility of on-site maintenance activity performance.

The Integrated Extra Low Voltage System (IELVS) specified by Stantec provides a robust, fault-tolerant and concurrently maintainable platform for hosting the building management software and equipment critical to operation of the CEP. This system includes the following main components:

- High availability data network for building services equipment requiring communications connectivity across the building and greater site.
- Virtualised server environment for installation of maintenance and building operation software, allowing remote access and concurrent maintenance of hardware.
- Purpose built software for collecting data from building sub-systems including faults, alarms and diagnostic performance information.
- Customised graphical user interface to display real-time key parameters of all operating plant, including associated status and alarm information.

All of the above is presented on large LCD displays within the CEP control room, and available via remote access for site maintenance personnel.

Fujitsu Data Centres - Melbourne, Sydney and Perth

Project value:
Confidential

Completion:
2021

Stantec was engaged to provide engineering services at the Fujitsu sites in Melbourne, Sydney and Perth to achieve Uptime Institute Tier III and Tier IV certification of the facilities. This involved upgrades to electrical and cooling infrastructure with all works carried out in a live data centre environment with no downtime to data hall critical load.

The project was led from Melbourne with Nicholas Blay providing client interface, design support and co-ordination across the various national offices.

Polymer Connected Data Centre - Jakarta

Project value:
Confidential

Completion:
2021

Stantec was engaged for the building services design of a new Hyperscale Data Centre campus located in Jakarta, Indonesia.

The campus includes the initial deployment of the JAK2 building comprising of a 1.45MW IT Uptime Institute Tier III design certified Data Hall and administration building, with the future construction of a scalable 26MW UTI Tier IV data centre building.

The campus utilises on-site natural gas generation with waste heat recovery to provide a secure and economical electrical supply, with diesel generation for additional redundancy to the essential site load.

The critical IT load is supported by (N+N) static UPS systems with the power distributed within the data hall via high level distribution busway.

The mechanical cooling within the data hall is provided by fan walls and delivers a flooded cold aisle distribution with enclosed hot aisle return via roof plenum.

Canberra Data Centres

Project value:
Confidential

Completion:
2015 and 2018

Stantec were first engaged by Department of Human Services (Medicare and Centrelink) to review Canberra Data Centres facilities against the concurrent maintainability requirements of TIA 942 – the North American standard for data centres commonly applied throughout the world. Stantec have since worked directly with Canberra Data Centre's to review the schematic designs for their facilities in accordance with industry best practice. We have also worked to maximise the Power Use Effectiveness (PUE) of their facilities, as well as working to establish NABERS ratings inline with the latest Data Centres NABERS tool.

Stantec has also been engaged as an independent commissioning agent for a large multinational Cloud service provider to verify the operation of the mechanical and electrical systems and contracted capacities.

Global Switch Sydney East Data Centre Stage 2/3

Project value:
$150 million

Completion:
2018

New facility of approximately 19,000sqm of space comprising technical space, Mechanical and Electrical plant space, technology support areas and offices.

The project entailed new 11kV switchgear, DRUPS, Power Distribution Systems, 3.3kV Chillers, mechanical pumps and fans, CRACS, ICMS, SCADA & power monitoring system, small power and lighting, hydraulic and fire protection.

Stantec were engaged by Hutchinson Builders the D&C builder to provide design advice, review of contractor's design for compliance with the design brief and industry best practice and construction phase site inspections and commissioning support.

Project value:
CAD$16 Million

Completion:
2010

GNWT Computer Data Centre

The new two storey building has a steel structure and will house the “clean room” for the server stacks and the required support facilities on the ground floor as well providing adequate office space for the technical and management staff on the second floor.

In collaboration with Clark Builders, Stantec designed the new GNWT Computer Data Centre located in Yellowknife, NWT. The main challenge in design and construction of this facility was creating a controlled, sealed environment for the clean room. To this end the clean room and its supporting facilities were analyzed and designed in with specialist consultants Care Factor as a separate entity within an outer shell housing the other requirements of the program. The resultant details ensured that the clean room is provided with the required controlled environment and the building as a whole meets all the requirements of the program.

The facility also included a number of specialized systems applicable to best practices in contemporary server rooms and data centres including:

- N+1, dual path redundancy of all power and cooling systems
- Heat recovery from cooling systems utilized for building heating
- Full emergency backup power by UPS and generator
- Multi-sensing fire detection and clean agent fire suppression systems

Project value:
CAD$474.1Million

Completion:
Undisclosed

Waypoint Centre for Mental Health Care (Data Centre)

Stantec is designing a Tier III equivalent data centre for this Mental Health Care Facility in Penetanguishene, Ontario.

Stantec is providing a full integrated team of architectural, LEED, mechanical, electrical, and structural engineering services for this new 350,000 SF mental health centre in Penetanguishene that accommodates 300 inpatient beds.

Stantec is the PDC consultant on the project, producing compliance specifications, master plans, master programs and infrastructure development/implementation plans. Part of the scope of work included the design of a Tier III Equivalent data centre. The data centre includes 2 UPS systems of 300 kVa each and supports 5 data rooms. The data rooms are divided into two separate areas, one for the Hospital and one for the Facility Management. Both the data centre and data rooms are supported by two 1500 Kva emergency generators designed for this facility. All design work and recommendation of IT equipment has been done in close collaboration with the MHCP’s IT department.

Project value:
CAD$40 Million

Completion:
2010

Mid-Term Accommodation Project (MTAP), Data Centre, Department of National Defence

A new office space and data centre that utilized green building design to become one of the first LEED® Gold certified data centres in Canada.

The Department of National Defence wanted an Office space and Data Centre that would propel them into the 21st century. This meant designing a space that could not only accommodate office staff, but house a secure data center operating 24/7 with an electrical consumption of 920kW, as well as allow for possible future growth of the facility.

To align with DND's green design principles, Stantec's designers utilized the heat generated from the data center to heat the entire 6000m2 building. High efficiency equipment was used make best use of the buildings energy consumption. The chillers dedicated to cooling the Data Canter were arranged in such a way as to maximize the heat production during the heating season and to allow for as much free cooling as possible when the heating demand was met. The chillers and the heat exchangers were configured to ensure the chillers were operating at peak efficiency at all times. The total cooling capacity for the Data Centre is 400 tons. Several cooling methods were used in the Data Centre: row oriented, rack oriented, enclosures. The layout of the equipment and the racks inside the room was designed to achieve maximum expandability and flexibility, allowing the Client to double the Data Centre size without requiring additional equipment or electrical loading. Two hydraulic loops, one heated and the other cool, also aid in the heating and cooling of the facility.

Finally, two diesel generators were also designed for which run on full redundancy mode. Each of the two generators is sized to provide the total demand of the site including the chillers.

Project value:
CAD$250 Million

Completion:
2013

Forensic Services and Coroner's Complex - Data Centre

As part of the overall design, Stantec provided the design of a Tier III Data Centre for one of the largest and most advanced forensic facilities in the world.

Stantec is providing Architectural, Structural, Mechanical, Electrical and Communications (IT/Security) Engineering services for one of the largest and most advanced forensic facilities in the world. The Forensic Services and Coroners' Complex (FSCC) is a consolidated, state-of the art forensics laboratory, medical autopsy, and coroner's courts complex that combines the offices of the Centre of Forensic Sciences and the Office of the Chief Coroner into one facility to better serve the people of Ontario.

The Stantec team catered to the client's unique needs for this multipurpose facility, which included the design of a Tier III Data Centre. The data centre includes 3 UPS systems of 350 kVa each and 20 racks. The IT cabling and data centre combine with the conceptual design of all applicable technologies for the facility, including an optimal visualization of data and user interface. Security measures vary by zone for the whole facility and naturally include the protection of the data centre. A new 4 x 1875 Kkl diesel fired backup generator protects the power supply of the whole facility.

Project delivery & offering

Buildings ANZ project coordination

No matter what the project, no matter what your needs are, we have the team to help make it happen.
A Stantec Project Engineer will be:

- Responsible for ensuring cohesive team delivery
- The first point of contact for the client

What does this mean for our clients?
Not only will you receive the very best from all Stantec consultants, you will receive seamless design integration across all Stantec disciplines. This will result in identifying and minimising scope-gap, cost or programme risks.

Working together

Communities are fundamental. Whether around the corner or across the globe, they provide a foundation, a sense of place and of belonging. That's why at Stantec, we always design with community in mind.

We care about the communities we serve—because they're our communities too. We're designers, engineers, scientists, and project managers, innovating together at the intersection of community, creativity, and client relationships. Balancing these priorities results in projects that advance the quality of life in communities across the globe.

Connect with us

stantec.com/australia