

An aerial photograph of a modern residential development. The houses are multi-story, with flat roofs and large glass windows. They are surrounded by a dense forest of green trees. In the background, a city skyline is visible under a hazy sky. The overall scene is bright and sunny, with a warm, golden light.

Guidebook 2026

Global multi-disciplinary consulting engineers and designers

CUNDALL

Our purpose

Cundall exists to create:

The best opportunities for our people
and sustainable solutions for the planet

Cundall is a global, independent, multi-disciplinary consultancy delivering sustainable engineering and design solutions across the built environment. Thought leadership is a key element of our business.

We are continually engaged in self-evaluation to measure and manage our impact on, and contribution to, both industry and planet.

Cover photo: Ghaf Woods, Dubai, United Arab Emirates © Majid Al Futtaim

About us

Established in the UK in 1976, we are now an international multi-disciplinary consultancy, operating from 27 locations across the globe with over 1300 people.

As a client you just want the best person for your job. And as an independent, privately owned practice, we always act in the interests of you, our clients, rather than being beholden to shareholders. At Cundall, we really are one global team, with a single-bottom line that gives us the freedom to select people with the right fit, skills and experience for your job.

The quality of our people is one of our biggest strengths. Our clients enjoy working with us and the fact that we consistently win repeat business with 70-80% of them is testament to this.

When it comes to projects, we're known for taking the lead. Our curiosity means we ask the right questions so as a team we then achieve the best results. If someone says it can't be done, our people aren't afraid to challenge convention. We always want to develop innovative ideas. It's what we get excited about.



Cundall Manchester office © Thierry Cardineau Photography

International practice with a local touch

Since Cundall was established in 1976, our reputation has been built on the foundations of client service, continuous professional development and investment in the future.

UK & Ireland

Belfast
Birmingham
Bristol
Dublin
Edinburgh
London
Manchester
Newcastle

Europe

Bucharest
Frankfurt
Madrid
Warsaw
Wrocław

MENA

Doha
Dubai
Riyadh

Asia

Bengaluru
Chennai
Hong Kong
Manila
Kuala Lumpur
Singapore

Australia

Adelaide
Brisbane
Melbourne
Perth
Sydney

Associated offices

Denmark
Netherlands
Sweden

Cundall stats



27

Global offices



1976

Established



1300+

People worldwide



Projects delivered in

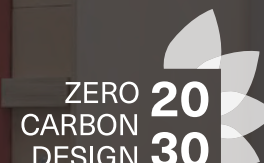
50+

Countries



500+

Awards won



All projects will meet
our zero carbon criteria

2030

Cundall services



Acoustics



Air Quality
and Odour



Audio Visual (AV)



Building
Automation



Building Performance
Services (BPS)



Building Services
Engineering



Civil Engineering



Construction Design and
Management Consultancy



Digital
Engineering



Environmental, Social and
Governance (ESG)



Fire Engineering



Geotechnical and
Geoenvironmental



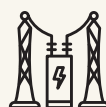
Health, Wellbeing
and Productivity



Information
Technology



Lighting Design



Power



Security



Smart



Structural
Engineering



Sustainability



Transportation



Vertical
Transportation

Projects delivered in UK

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Three Chamberlain Square, Paradise Birmingham, United Kingdom © Andy Stagg

Eden, New Bailey

Salford, United Kingdom

The UK's first new build building to achieve a 5.5 NABERS 'Design Reviewed' Target Rating.

Eden is a speculative, 12-storey office development on the English Cities Fund's (ECF) New Bailey, Salford Central scheme. ECF has a vision for the project to be as sustainable, energy and carbon efficient as possible, increasing biodiversity and creating a positive impact on society. The scheme is targeting net zero carbon in operation and has been designed in line with the UKGBC Net Zero Carbon Framework Definition. The building is the first new build in the UK to achieve a 5.5 NABERS 'Design Reviewed' Target Rating with an upfront embodied carbon of 620kgCO₂/m². Eden is also set to be BREEAM Outstanding and WiredScore Platinum.

Embracing the WELL Building Standard principles, we developed a holistic sustainability strategy to deliver a building that is net zero carbon in operation and designed to enhance occupancy health, wellbeing and productivity. The design includes a living façade that will remove air pollutants, reduce urban temperatures and improve biodiversity, while providing biophilic health and wellbeing benefits to the users.

Client English Cities Fund (ECF)

Sector Workplace

Architect Make Architects

Imagery © Simon Buckley / Muse



The Peninsula London

London, United Kingdom

Overlooking Hyde Park Corner, London's first Peninsula Hotel will be part of an exclusive group of luxury hotels.

The Peninsula London sets a new standard for luxury hotels and apartments in the London market. The 5-star hotel features 190 rooms and suites, a select number of privately-owned luxury residential apartments, rooftop penthouse, conferencing facilities, two ballrooms, two pools with spa treatment rooms and underground parking.

Working on-site since 2017 alongside almost 20 specialist consultants, the lead architect and three interior design architects, Cundall provided mechanical, electrical, and public health engineering design services for the entire hotel. The location presented challenging planning constraints, requiring innovative engineering solutions for top-down construction. This approach has led to construction and design working in parallel and a packaged construction management approach.

Client Hong Kong and Shanghai Hotels

Sector Hotels and Hospitality

Architect Hopkins Architects (executive architects)

Imagery © Will Pryce



Three Chamberlain Square, Paradise Birmingham

Birmingham, United Kingdom

The development was the first in the West Midlands to receive a 5* NABERS UK Design Reviewed Target Rating.

A 10-storey development providing 17,500m² of commercial space. With a focus on setting new standards for sustainability and wellbeing, the development provides the city with a landmark building with market-leading low embodied carbon solutions. The building's orientation and design maximise the views towards some of Birmingham's most notable landmarks including the Town Hall, Council House, Museum and Art Gallery.

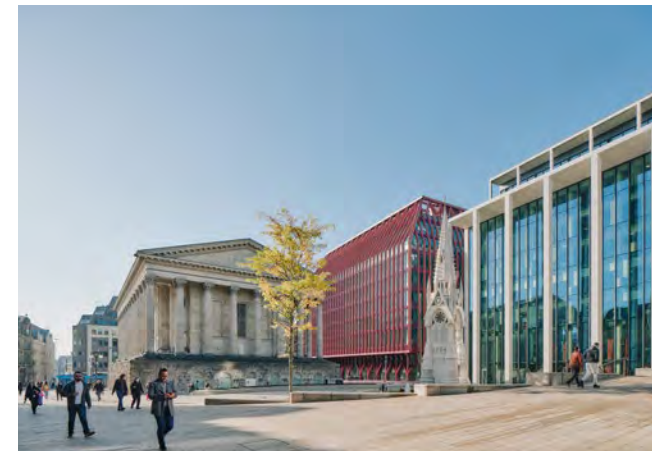
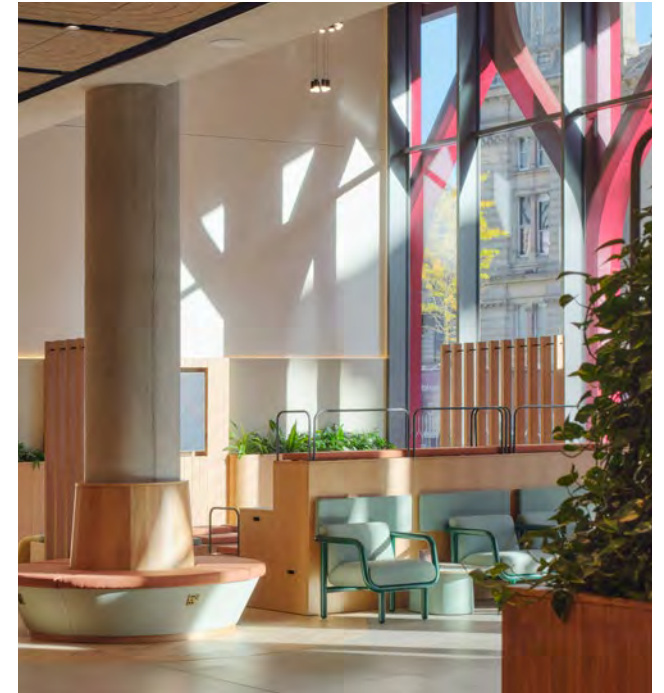
The development is the first in the West Midlands to receive a 5* NABERS UK Design Reviewed Target Rating with our multi-disciplinary team leading the development of design solutions to achieve significantly low operational and embodied carbon. The original brief set a target for upfront embodied carbon not to exceed 600 kgCO₂e/m², aligning with LETI Band C for offices. Through a combination of significant design and construction decisions, the upfront embodied carbon was reduced to just 449 kgCO₂e/m², achieving compliance with LETI Band B for offices.

Client Hermes Three Chamberlain Square Limited Partnership / MEPC

Sector Workplace

Architect Feilden Clegg Bradley Studios

Imagery © Andy Stagg



Rabobank

London, United Kingdom

A sustainable office fit-out that delivers a premium, future-ready, healthy workplace in the heart of London.

Situated within an existing BREEAM Outstanding building, Rabobank's UK office demonstrates how a CAT B fit-out can achieve exceptional sustainability outcomes.

Existing CAT A elements – including ceilings, lighting, and MEP components – were retained and integrated into the new layout, while furniture from Rabobank's previous office was reused or refurbished where possible. In total, 17% of materials by mass were reused, and 53% contained recycled content. This resource-efficient approach resulted in a low upfront embodied carbon intensity of 128 kgCO₂e/m² and a whole life carbon value of 417 kgCO₂e/m².

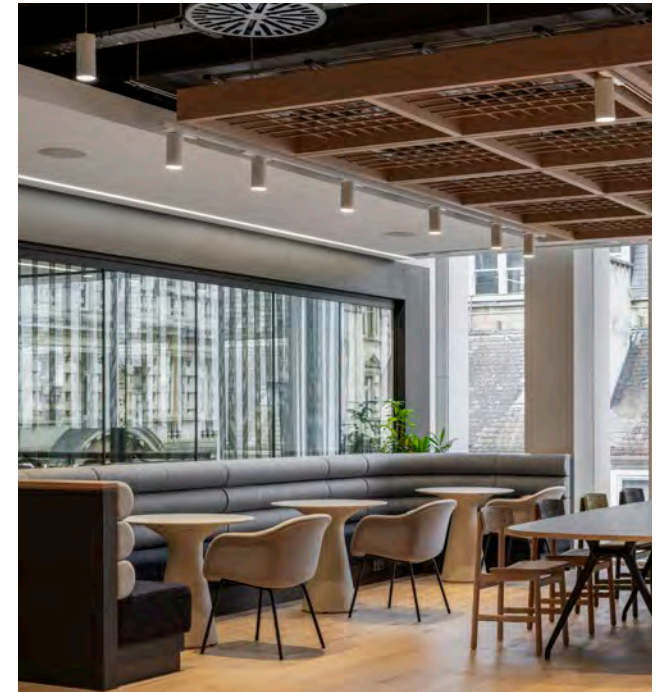
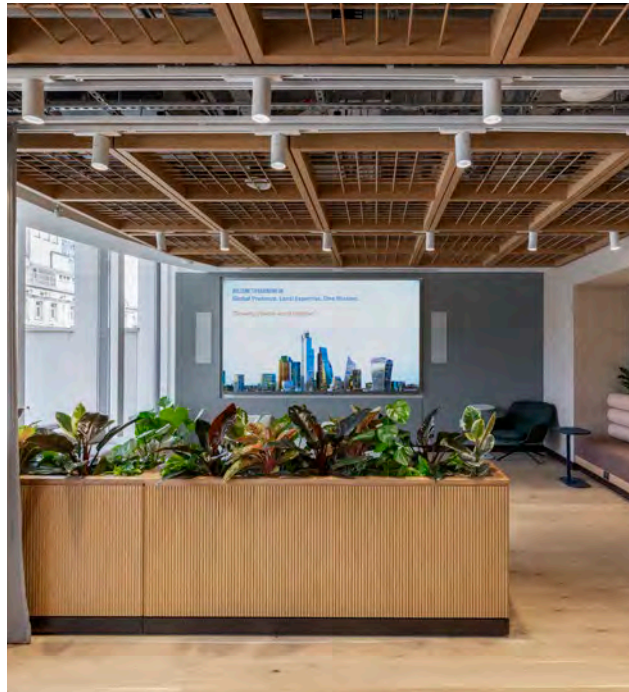
The project achieved BREEAM Outstanding and is targeting WELL Platinum certification, with our expertise shaping low carbon design decisions, identifying material reuse opportunities, and embedding a health-centred design approach to support long-term environmental and wellbeing performance.

Client Rabobank

Sector Global Corporate Real Estate

Architect Sheppard Robson

Imagery © Office Curator



Ada Infrastructure's Docklands Data Centre Campus

London, United Kingdom

Ada Infrastructure's first data centre in Europe, consisting of three 70MW IT multi-storey buildings, was designed from the ground up.

The project broke ground in March 2026. The construction project involved the design programme of three 70MW multi-storey data centre buildings, each with nine stories, including data halls, gantry levels and a generator hall. Additional structures on-site include a 300MVA (Mega Volt Amp) substation, security gatehouse, firewater storage, waste building, and a multi-function building for training and community use. Cundall led a multi-disciplinary engineering design, emphasising mission-critical infrastructure achieving a BREEAM score of 95.4% and targeting an annual Power Usage Effectiveness (PUE) of 1.2-1.23. The planning application has been submitted, with construction expected to commence in Q1-2 2025.



Client Ada Infrastructure

Sector Data centres

Architect TTSP

Imagery © TTSP



AELTC Community Tennis Centre, Raynes Park

London, United Kingdom

Multi-disciplinary design project for The All England Lawn Tennis Club's new community tennis centre.

Cundall provided multi-disciplinary services up to RIBA Stage 4 to The All England Lawn Tennis Club's new community tennis centre. The development comprises 16 new Championships standard grass courts, three new acrylic courts beneath a heated air dome, new sports pitches, a new clubhouse facility which replaced the existing building, a large extension to the existing parking facilities and a new maintenance building.

We provided a holistic multi-discipline approach to the development of the new grass court edge beam design, under-court drainage, court services for irrigation and game technology. Our team also developed a piled wall design to support the whole court plateau, which enabled a Ha-Ha adjacent to the wall, aiding security and sustainable design.

Client The All England Lawn Tennis Club

Sector Leisure and Entertainment / Sports Venues

Architect Langstaff Day Architects

Imagery © AELTC / Felix Diemer



21 Moorfields

London, United Kingdom

21 Moorfields is a flagship, high-specification office development situated over a major London Underground station and new Crossrail station.

Located in one of London's busiest commuter hubs, this ambitious commercial project includes approximately 65,500m² of office space, all of which was pre-let. Improved pedestrian permeability is provided via the reconfigured Barbican high-walk connection. In addition, the development includes a new public square with improved landscaping.

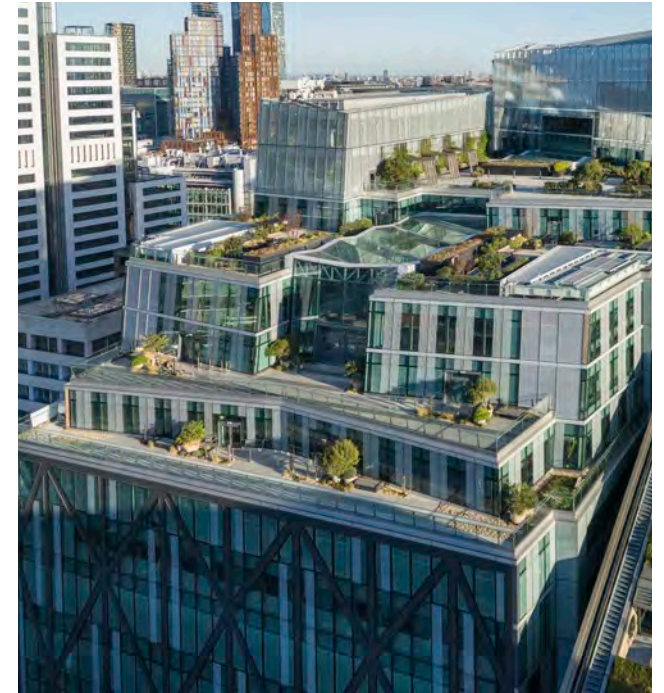
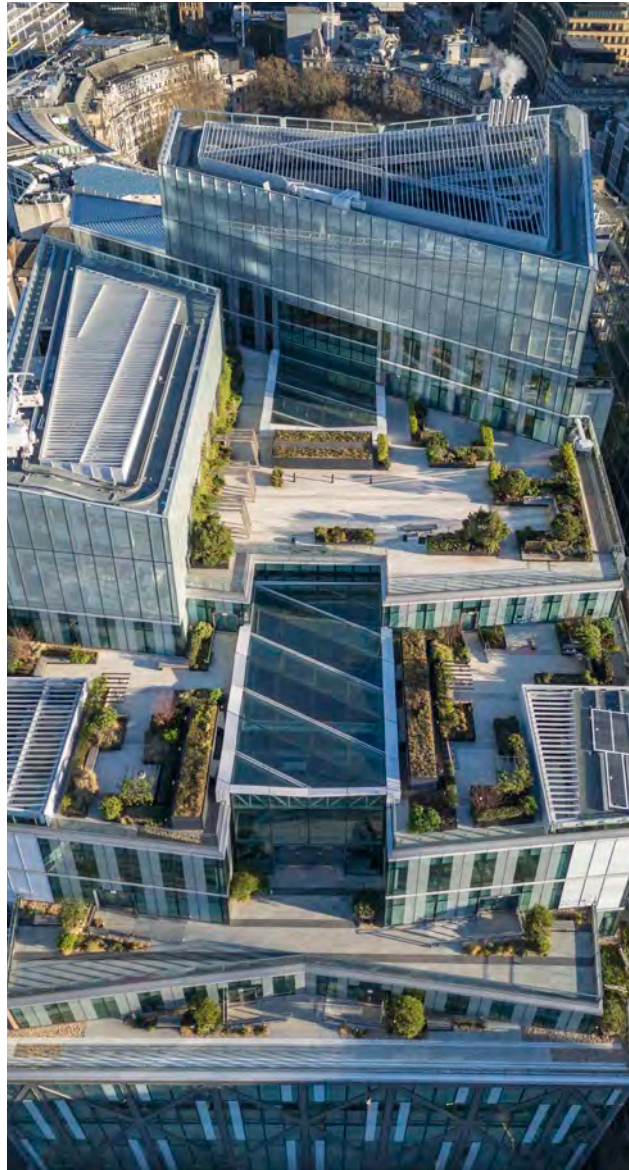
Cundall worked with our client, Landsec, to enable the pre-letting of the building and included the tenant's engineering requirements into the base building. This involved the provision of 8MW of stand-by generation and critical cooling systems for their IT infrastructure.

Client Landsec

Sector Workplace

Architect WilkinsonEyre

Imagery © Dirk Lindner



Ed Sheeran $+-=\div\times$ Tour

Worldwide

The first ever touring cable structure in the world. The Ed Sheeran Mathematics tour is the first to use a temporary demountable self-supporting cable structure.

The first of its kind, our structural engineers, appointed from early concept to detailed design, used their extensive knowledge to create a design which considered all aspects – cost, aesthetics, structural stability, and functionality.

The structure had to be easily transported, unloaded, and rebuilt in just three days within different stadia in the UK and around the world. This made the project very challenging and at the same time very exciting.

The touring structure consists of six 30m high steel masts, positioned around the central stage and supporting a 60m span cable net constructed of 22mm diameter galvanized steel spiral strand cable. This was used to suspend the central 21m diameter, 45 tonnes circular transparent LED screen over the stage, as well as ten tonnes of audio systems (PA). An additional 22 tonnes of PA and 22 tonnes of plectrum-shaped double-sided LED screens are suspended from the top of each mast, adding cutting-edge production to a very unique structure.

Client 1325 Productions

Sector Leisure and Entertainment

Architect Mark Cuniffe Ltd / WonderWorks / Stage One Creative Services Ltd



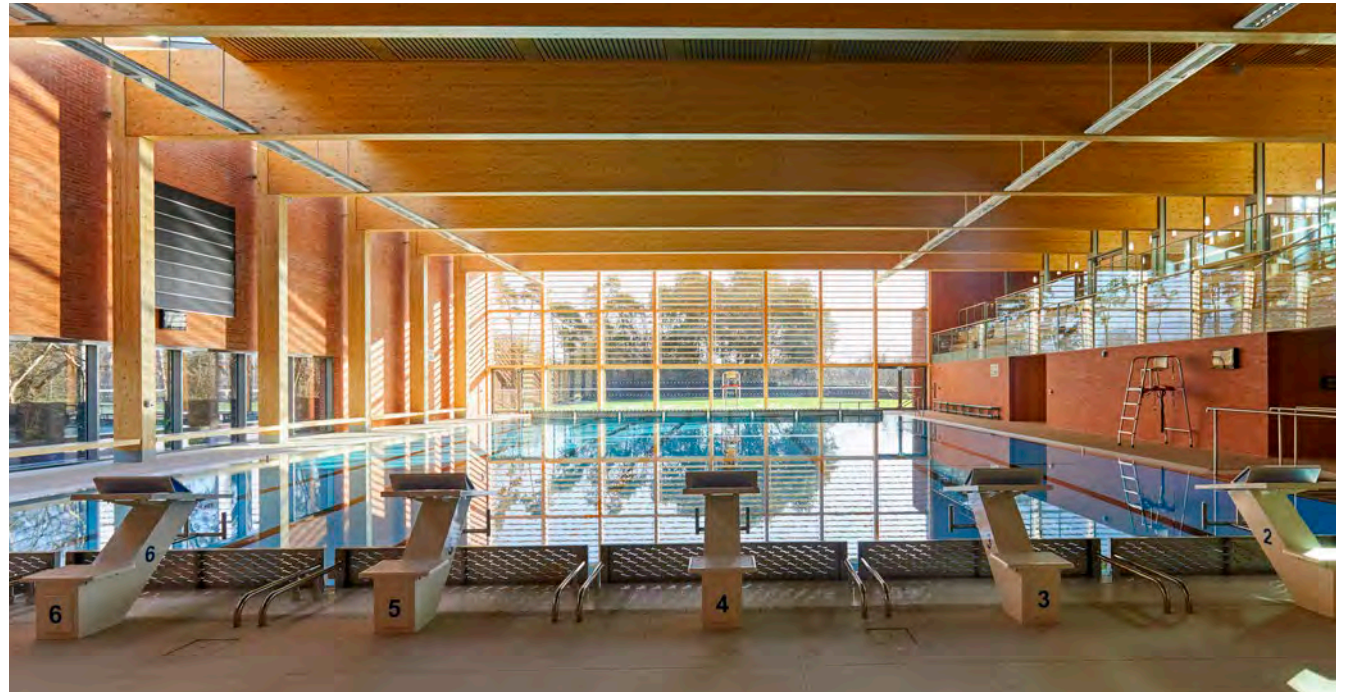
Eton College Sports and Aquatic Centre

Eton, United Kingdom

Redevelopment of Eton College's sporting facilities, providing its students with the highest quality amenities commensurate with the status of the college.

The Eton Sports and Aquatics Centre (ESAC) provides a 25m indoor swimming pool, a four court multi-purpose sports hall and associated spectator, changing and administration facilities. The pool incorporates a movable floor to increase flexibility, allowing the pool to be used for swimming, water polo and teaching. The multi-purpose sports hall is designed to facilitate examination use by the school.

Glulam beams, spanning up to 31m, were chosen for the roof structure to support a green roof and PV panels. Timber was selected not only for its low embodied CO₂ but also for its durability in a swimming pool environment.



Client Eton College

Sector Leisure and Entertainment / Schools and Colleges

Architect Hopkins Architects

Imagery © Janie Airey Photography

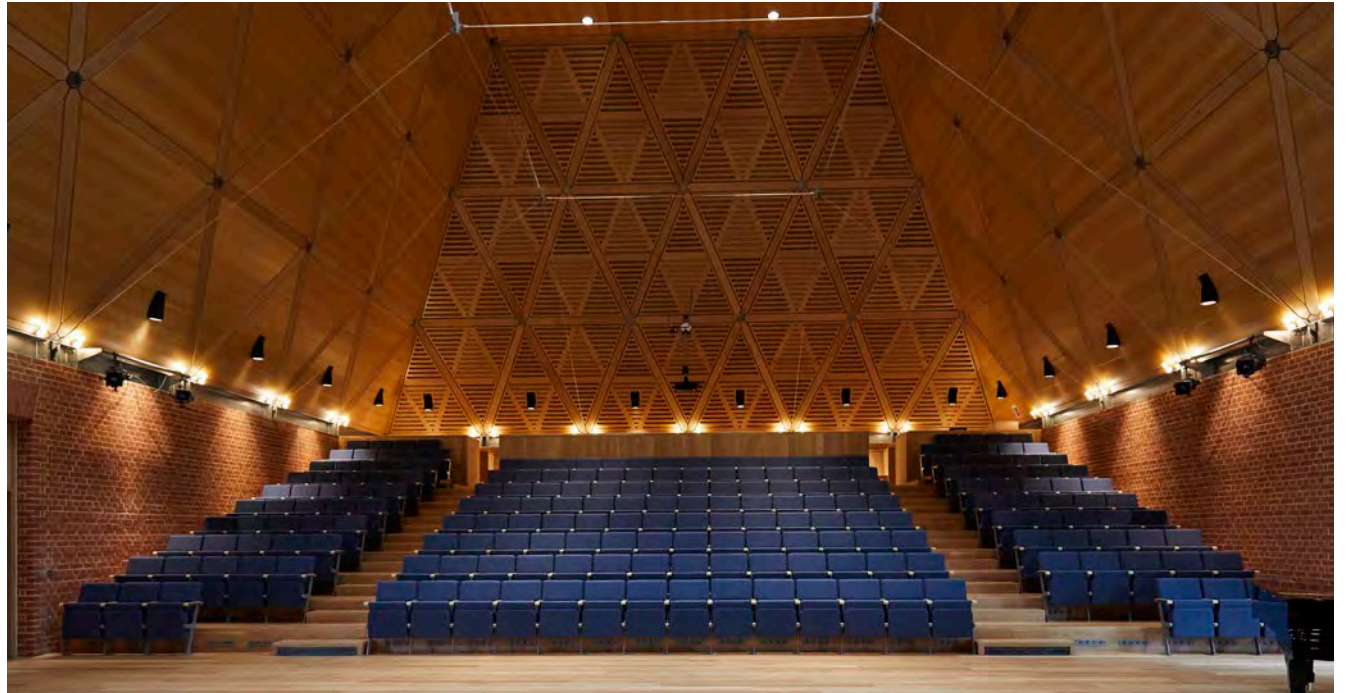
King's College School, Wimbledon - New music school

London, United Kingdom

This award-winning timber structure is exemplary for the achievement of client vision, innovative architecture and structural design.

The project objective was to create a state-of-the-art music facility for a leading academic school in the UK. The new building is arranged over three floors, comprising a suite of sound-proofed practice rooms, a stunning concert hall (which can accommodate an audience of 200 alongside a 70-piece orchestra), specialist classrooms, the new porters' lodge and staff administration / office spaces.

The site presented a variety of engineering challenges caused by the high-water table. This required engineering solutions to prevent flooding, floatation and an integrated surface water drainage system. The geotechnical solutions had to be sympathetic to the make-up of the ground, which included clay and gravel.



Client King's College School, Wimbledon

Sector Schools and Colleges

Architect Hopkins Architects

Imagery © Janie Airey Photography

Pilgrim Place

Newcastle upon Tyne, United Kingdom

Delivering flexible, future-ready office space as part of Newcastle's strategic city centre regeneration.

Pilgrim Place is a major commercial development in Newcastle city centre, comprising two high-specification office buildings and a shared basement for parking and plant. Pilgrim Place 1 will accommodate a new DWP Service and Support Centre, while Pilgrim Place 2 offers flexible, Grade A office space for future tenants. The scheme also includes retail, leisure, and significant public realm improvements.

Cundall delivered multidisciplinary services, developing an elevated SuDS system, managing complex ground conditions, and coordinating infrastructure in a constrained urban site. Our geotechnical team oversaw contamination remediation and foundation design, while building services were tailored for tenant flexibility and energy efficiency. Early contractor engagement accelerated delivery, ensuring seamless integration across both buildings.

Client DWP

Sector Workplace

Architect Ryder Architecture

Imagery © Ryder Architecture



Imjin Barracks

Gloucestershire, United Kingdom

The first project delivered under the Defence Infrastructure Organisation's Single Living Accommodation Programme.

Imjin Barracks is the first project of the wider £1.2 bn Defence Infrastructure Organisation (DIO) Army's Single Living Accommodation Programme (SLA) procured under the ECAM framework. The project, completed in summer 2023, provides 69 new single en-suite bedspaces, along with communal living and kitchen/diner facilities to enhance the lived experience.

Cundall was appointed by Arcadis to provide multi-disciplinary engineering consultancy for this major infrastructure works project.

The new SLA block is an off-site modular project featuring a high-spec interior fit-out, central break-out spaces and increased natural daylight into rooms. The building will use smart building technology to react to external environments and user behaviours to reduce energy consumption. Our structural team undertook a detailed structural options appraisal to determine the most appropriate structural form in terms of embodied carbon, cost, and programme.

Client Defence Infrastructure Organisation

Sector Defence

Architect HLM Architects



Nine, Edinburgh BioQuarter

Edinburgh, United Kingdom

Award winning three-storey mixed-use development offering specialist accommodations.

As part of the 100-acre BioQuarter, Nine offers up to 1.4m sqft of specialist accommodation for academic, commercial, and healthcare activity. The three-storey building consists of bio incubator laboratories and offices, shared meeting spaces, conference rooms, administration, and café facilities.

We carried out the building services engineering fit-out to create a bespoke office for four individual clients: FARR, ADRC, PHIB and the NHS. All projects achieved an EPC rating of B. The concept was to create a flexible working environment to enable co-operation between the different organisations, and to produce an informal atmosphere where creative ideas and spontaneous collaboration could develop.

Client Scottish Enterprise

Sector Science and Technology / Healthcare / Higher Education / Workplace

Architect Michael Laird Associates

Imagery © Paul Zanre Photography



The Cairn Distillery

Grantown-on-Spey, United Kingdom

The Cairn is the first new-build distillery located in the Cairngorms National Park.

Whisky will be produced in this state-of-the-art distillery, which also includes a visitor centre, bistro and bar area.

Cundall has been involved since the very early stages of this project, providing multi-disciplinary engineering services. The design has been inspired by the national park it resides in with features such as a green roof and earth mounding. Nestled on the bank of the River Spey, the distillery has been designed to reflect its environment.



Client Gordon & MacPhail

Sector Leisure and Entertainment

Architect Norr

Imagery © Diane Auckland and fotohaus ltd



Ulster Hospital

Belfast, United Kingdom

Award-winning £250m major acute hospital serving the Belfast area.

The 30,000m², seven storey inpatient ward block comprises of 288 en-suite bedrooms within 12 inpatient wards, four operating theaters, endoscopy, angiography, cardiac, and a pharmacy department. The acute services block, of similar size, comprises 213 en-suite bedrooms within nine inpatient wards, A&E, medical, stroke, renal, nuclear medicine, and an imaging department.

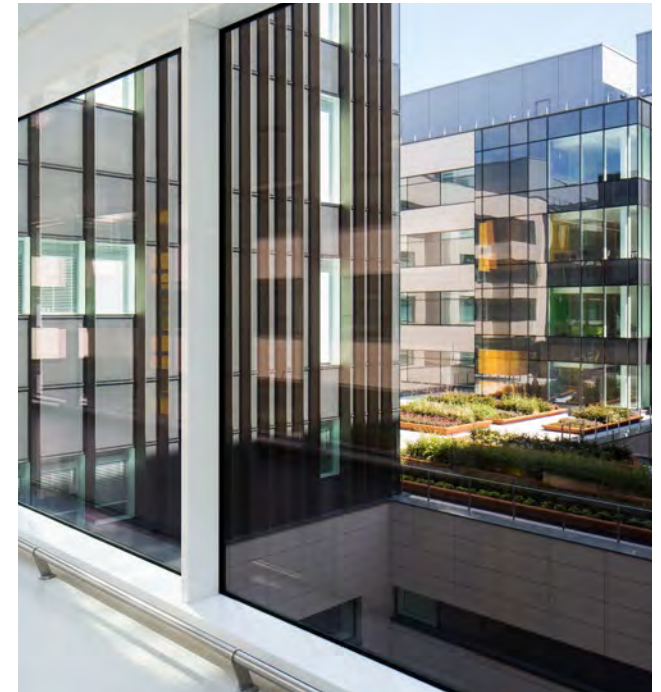
Both buildings adopt the same design principles of generously planned, light-filled spaces offering pleasant external views, providing a safe and therapeutic environment for patients, staff and visitors. The ASB building is located adjacent to the IWB building (completed in 2017) and is connected to the surrounding hospital by a series of glazed links, which border generously landscaped courtyards where colour and artwork define each space.

Client Health Estates

Sector Healthcare

Architect Avanti Architects / Kennedy Fitzgerald

Imagery © Donal McCann



5-7 Havelock Terrace

London, United Kingdom

Redevelopment of an exemplar architectural building to provide flexible office and studio space in a historic Battersea location.

Located in the heart of Battersea, 16-storey high-rise tower development will offer contemporary office, studio and light-industrial space for the local community. Cundall's multi-disciplinary team has been deployed across all aspects of the project, progressing to a RIBA Stage 2 level of detail to inform the planning application for the development. The structural design has been made as lean as possible and adopts high quantities of cement replacement to minimise embodied carbon. The civils design will incorporate blue roofing, with the dual functionality of attenuating surface water run-off and providing passive irrigation to the green roofed areas. Attenuation storage will be installed within the basement, allowing the management of rainwater runoff via a gravity system without the need for additional pumping.



Client Workspace Group PLC

Sector Global Corporate Real Estate / Workplace

Architect Squire and Partners

Imagery © Squires and Partners / Miller Hare

Colt London 4 data centre

London, United Kingdom

London 4, the first building on the campus, comprises two five-storey data centre buildings, explicitly designed for hyperscalers.

Colt has acquired a data centre site in Hayes to develop a data centre campus. The plan is to construct two data centre buildings and a 66kV substation. The aim of this development is to maximise the site's potential while also showcasing an example of environmentally aware urban regeneration. When completed, Hayes will become the largest data centre in Colt's London portfolio. It will offer approximately 31MW of IT power, spread across five floors.

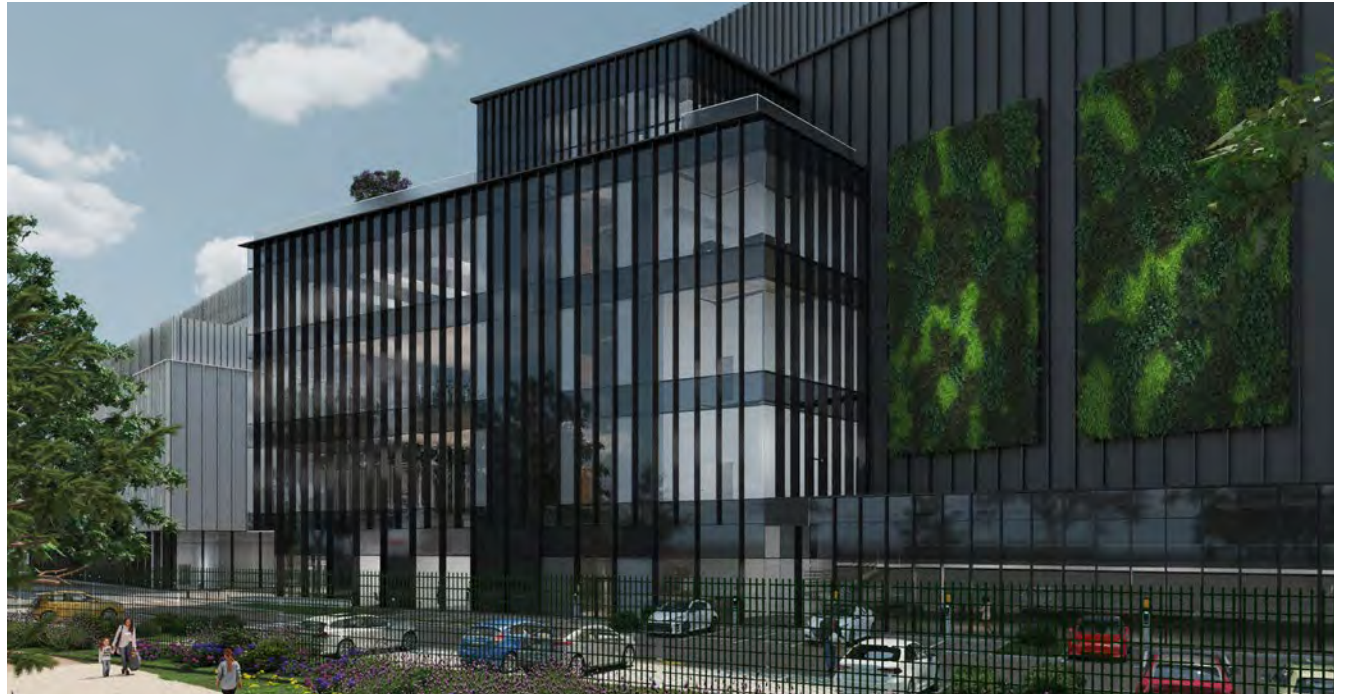
The first building on the campus, London 4, has nine data halls with critical plant infrastructure, an administration block, green walls, and screening panels for the generator gantry areas. The data centre has been designed to achieve a BREEAM Very Good rating, focusing on reducing water consumption and on-site carbon dioxide emissions. Materials used in the building have been carefully selected to ensure low environmental impact throughout their lifecycle, emphasising circularity. The project aims to achieve a 95% reuse, recycling, and recovery rate for demolition and construction waste.

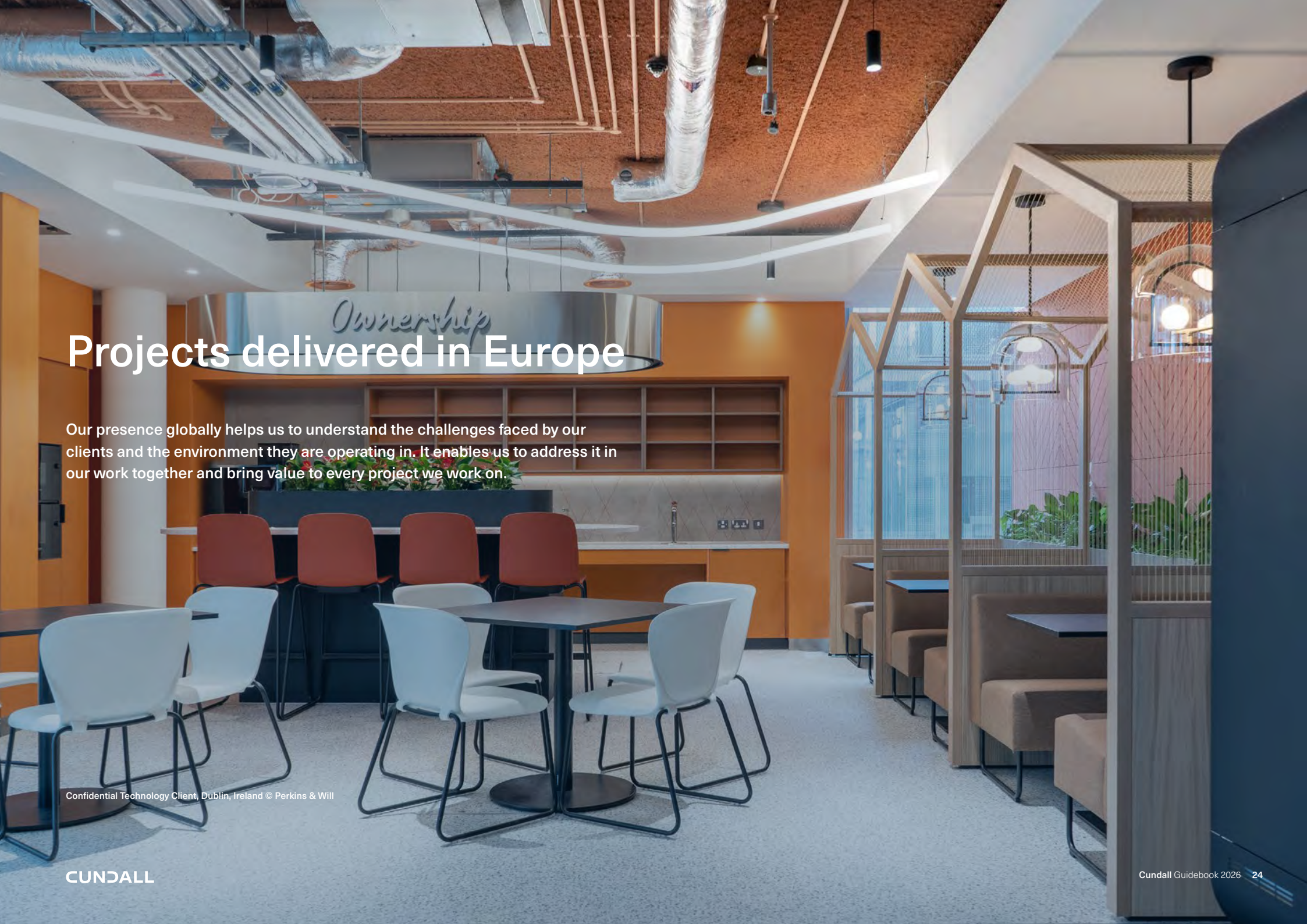
Client Colt Data Centres

Sector Data Centres

Architect StudioNWA

Imagery © StudioNWA





Projects delivered in Europe

Our presence globally helps us to understand the challenges faced by our clients and the environment they are operating in. It enables us to address it in our work together and bring value to every project we work on.

Confidential Technology Client, Dublin, Ireland © Perkins & Will

Synchro Yards

Tivat, Montenegro

Luxury mixed-use development on the coast of Montenegro.

Synchro Yards is a mixed-use development that combines a five-star hotel, hotel managed residences, private residences, multiple retail opportunities and facilities for conferences, arts, and entertainment. Located on the shores of the Adriatic Sea in Porto Montenegro, a former naval shipyard, now a large marina for yachts and high-end developments, Synchro Yards will create a unique retreat which re-anchors Porto Montenegro's wider community and hospitality offering.

Our multi-disciplinary team focused on providing energy efficient and sustainable solutions to help the development target LEED Silver and WELL Silver certifications. The environmental and net zero carbon considerations, such as fossil fuel free operations, heat pumps for cooling / heating and hot water, heat recovery ventilation, efficient LED lighting and SMART building controls pave the way for Synchro Yards to be one of the first low carbon hospitality developments in the region.

Client Adriatic Marinas

Sector Hotels and Hospitality / Mixed-use

Architect Woods Bagot

Imagery © Woods Bagot



Colt Frankfurt 3 Data Centre

Frankfurt, Germany

Construction has begun on Colt's third Frankfurt data centre, with Cundall as the client design representative.

Colt Data Centre Services has initiated the construction of its third state-of-the-art data centre in Frankfurt. The new hyperscale data centre will offer 32.4MW of IT capacity, all powered by 100% renewable energy. Spanning a gross area of 12,599m², this three-story facility is designed to Tier 3 specifications providing resilient power and a high concentration of fibre routes.

Cundall has extensive expertise designing hyperscale data centres for leading cloud service providers. The new Frankfurt facility will provide direct access to the DE-CIX, one of the world's largest internet exchange points and will offer cloud, carrier, and IX neutrality. The data centre will also support liquid cooling, high-density rack layouts, and hybrid cooling solutions to accommodate the AI-enabled future.

Client Colt Data Centre Services

Sector Data Centres

Architect N/A

Imagery © Colt



PINEA Resort and Apartments

Pobierowo, Poland

The luxury apartment and spa development with year-round restaurants and activities on site.

This new 26,000m² luxury seaside complex will feature three interconnected buildings. The development includes exclusive residential apartments, a condo hotel with a swimming pool, fitness and spa area, and a Hilton hotel. All buildings will be linked by an underground passage and surrounded by landscaped green courtyards.

Designed with sustainability in mind, the complex incorporates modern, high efficiency building systems. A rainwater collection and storage system has been implemented to support irrigation, enhancing the project's environmental performance. Our acoustics team addressed concerns related to vertical balcony covers and excessive noise levels in the apartments, ensuring a comfortable living environment. Additionally, Cundall conducted heat dissipation simulations for the cooling units located on the roof to optimise efficiency.

Client AS Invest

Sector Residential / Hotels and Hospitality

Architect Chapman Taylor

Imagery © AS Invest



Whole Life Embodied Carbon Assessment for NEPI Rockcastle developments

Eastern Europe

Whole Life Embodied Carbon Assessment for NEPI Rockcastle developments

Cundall team conducted a Whole Life Embodied Carbon Assessment (WLECA) for selected retail and residential developments build during 2019 - 2024 in Eastern Europe, including Romania, Bulgaria, and Croatia. The study aimed to evaluate the current carbon footprint against the client's sustainability aspirations industry benchmarks. The findings provide a comprehensive analysis of embodied carbon impacts and offer strategic recommendations for reduction.

The assessment was executed in alignment with Level(s) methodology - EU industry-leading standard for embodied carbon reporting. Our methodology focused on identifying carbon hotspots across architectural and structural elements, analysing life cycle impacts over 50 years, and proposing effective mitigation strategies. Conducting the WLECA presented several challenges, particularly in ensuring consistency and data quality across the six analysed buildings - five retail centers and one residential development - designed over a span of several years, from 2019 to a planned 2027 completion.

Client NEPI Rockcastle

Sector Retail and Placemaking / Residential

Imagery © NEPI Rockcastle



Mikołowska Office Centre

Katowice, Poland

An exciting, LEED Gold certified new office situated in the heart of Katowice on Mikołowska Street.

The project features six above-ground levels, offering 18,000m² of gross leasable area, along with two underground levels. Designed to Grade A standards, the building provides Shell and Core office spaces, complemented by shared amenities on each floor, including a staircase, lift cluster, tenant rest rooms, a lift lobby, and outdoor terrace.

Cundall delivered a full scope of mechanical, electrical and public health services while also securing LEED v4 BD+C Core and Shell certification at Gold level which ensures the building is highly efficient and cost-effective. At Level -1, the facility includes eight parking spaces with electric vehicle charging points, 18 spaces for low-emission vehicles and 18 designated for carpool users.



Client Globe Trade Center S.A.

Sector Workplace

Architect Jems Architekci Sp. z o.o.

Imagery © Jems Architekci

J8 Office Park

Bucharest, Romania

High-tech office with semi-public spaces, located in a high-density residential area.

The project comprises two self-contained, eight-floor office buildings set over a shared two-level basement car park. The buildings have U-shaped floor plans, with centrally positioned, double-height entrance lobbies facing the common landscaped zone between the two buildings. In house amenities such as restaurants, retail units and a gym will provide a convenient service for the everyday needs of office staff and local residents while creating an active frontage and a more vibrant streetscape.

Cundall provided building services engineering for this new office park. The challenge was to adapt the base-built design to a future potential fit out for an IT developer, with specific requests such as increased power supply per workstation, additional data centre power supply and specific extract ventilation on all IT rooms for inert gas usage.

Client Portland Trust

Sector Workplace

Architect Chapman Taylor

Imagery © Portland Trust



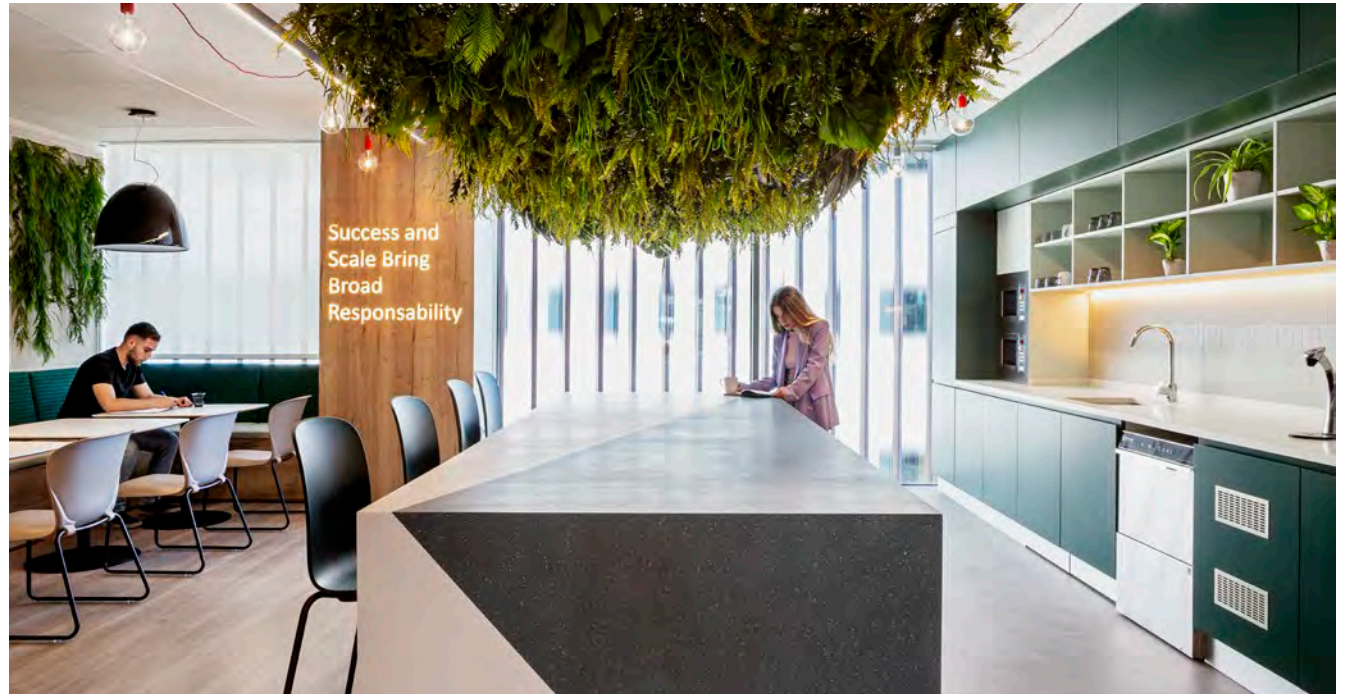
Technology client office

Barcelona, Spain

Working in partnership with the end client and Perkins & Will to create a modern, flexible and adaptable office space.

The client was consolidating their Barcelona teams from several locations into one new building. The project entailed the fit-out of 8000m² of office areas, flexible meeting spaces, commercial kitchen, canteen, wellness areas, and outdoor terraces. Our clients primary requirements were to increase headcount, create specialist training areas and provide a building that would allow for total flexibility with the ability to easily modify areas due to changing team requirements.

Cundall was pivotal to the design of building services systems which allowed for such flexibility and were heavily involved in the Kit of Parts design which allowed the easy relocation of meeting spaces.



Client Confidential

Sector Workplace

Architect Perkins & Will / StudioMadd

Imagery © Perkins & Will

Profile Park

Grangecastle, Dublin, Ireland

A 10-acre greenfield site, situated on the outskirts of Dublin, developed for phased development of 15MW of data centre space.

The project focused on the first phase of a data centre campus, comprising four separate buildings, which when fully built-out would support a total of 15.3MW of critical load. Each building contains two 978m² data halls, each supporting 1.9MW across 494 racks.

Cooling to the data halls is achieved using 'Excool' indirect air-cooling units that work through a combination of mechanical ventilation and adiabatic cooling to deliver the coolth to the data hall.

The climate in Dublin is ideally suited to the use of indirect air cooling. The use of this strategy, together with other energy efficiency measures, achieved a total annualised PUE of 1.15 and a Total WUE of 0.7. The data centre campus achieved BREEAM Excellent rating, and UTI Certified Tier III. Total CUE was 0.0625.

Client Digital Reality

Sector Data Centres

Architect Nicholas Webb Architects

Imagery © Digital Reality (UK) Limited



Expo Business Park

Bucharest, Romania

High quality offices that offer excellent access to Bucharest city centre.

This project features three self-contained office buildings with a shared two-level parking basement and ground-floor retail units. The development is surrounded by green areas and provides an outdoor amphitheatre designed for informal meetings, brainstorming and relaxation.

Cundall provided consultancy services for building services and offered design review guidance working on behalf of the client. The initial scope intended to verify the design against the client's specification and local norms and regulations. However, while the design was executed by others, Cundall also offered design advice to the project team that resulted in a cost and energy efficient office building.

Client Portland Trust

Sector Global Corporate Real Estate / Workplace

Architect Chapman Taylor

Imagery © Portland Trust



Cundall Dublin, 2 Dawson Street

Dublin, Ireland

A fine example of the circular economy in Dublin's capital.

Cundall's office fit-out is a symbol of commitment to healthy and sustainable design in every aspect of the business ensuring our Dublin staff have a thriving space to work in. The biophilic design workspace embraces the principles of the international WELL building standard and was also designed in line with our net zero carbon commitment.

With our own staff designing an inspiring and welcoming workplace for all, key features include 100% recycled bespoke office furniture with sit/stand desks originating from our Shanghai office, high levels of circadian lighting to emulate the colour shift and intensity of natural light, and good levels of air quality.



Client Cundall

Sector Global Corporate Real Estate / Workplace

Architect Studio Ben Allen

Imagery © Donal Murphy Photography

Leeson Lane

Dublin, Ireland

Reinstating a historic Dublin landmark with the innovations of a sustainable modern office.

Leeson Lane is a new seven-storey office block connecting to Spruce House, which is a historic Dublin Building where Irish revolutionary Michael Collins was prepared for burial before lying in State in 1922 at Dublin's City Hall. The state-of-the-art office development includes various mechanical and electrical systems that set a new benchmark for green building practices, including energy efficient heat pumps and a control system that allows natural ventilation throughout the building.

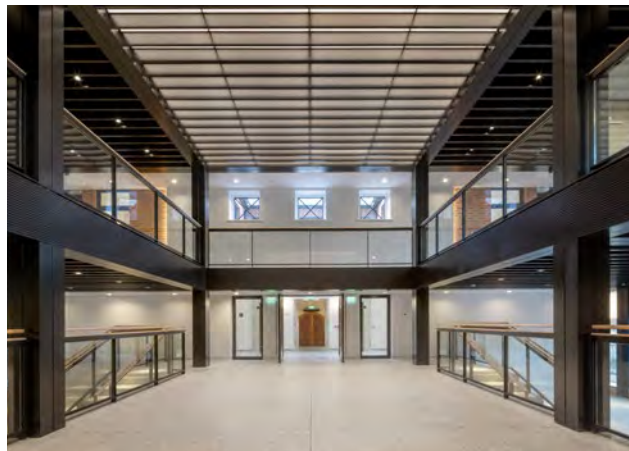
Among the design solutions incorporated into the building were customised breakout meeting areas and collaborative workspaces to accommodate the occupants' different ways of working. As part of our scope, we integrated a building management system (BMS) with the façade controls and a lighting control system throughout the building to meet the 20% renewable ratio requirement to achieve a nearly Zero Energy Building (NZEB).

Client Office of Public Works

Sector Workplace

Architect Office of Public Works

Imagery © Paul Tierney Photography



Confidential Technology Client

Dublin, Ireland

A vibrant multi-disciplinary office design in the heart of the city centre business region.

A complete 8,000m² building fit out in the heart of Dublin's city centre business region. Our multi-disciplinary team advised the client and the design team on the most economically suitable green solutions that allow the building to attain the lowest energy rating achievable. The design includes open plan work areas with cellular offices, meeting rooms, board rooms and commercial kitchens, areas with foldable walls to add flexibility.

With today's workplace refurbishments factoring many different design solutions, we prioritised sustainability, energy efficiency, cost-effectiveness, health and wellbeing and agile working environments. By reviewing existing services and, where possible, designing for upgrades rather than full service replacements, the refurbishment minimised waste and capital cost. We also approached our client about upgrading the Building Energy Management System (BEMS) which would provide more accurate control of HVAC systems and ensure significant energy savings over the life of the building.

Client Confidential

Sector Global Corporate Real Estate / Workplace

Architect Perkins & Will

Imagery © Perkins & Will



Projects delivered in Asia

Cundall is committed to producing the best deliverables in the industry, efficiently and consistently from every office. Our experienced teams demonstrate the highest level of service by providing our clients with bespoke solutions, taking into account the local context.

Bush Stop, Singapore © SPARK Architects

Busan Opera House

South Korea

A building envelope sweeping a free-form juxtaposition of glazing and UHPC, conceived as a permeable civic skin of Busan city's cultural landmark.

Cundall was engaged by the client for a new opera house on reclaimed land along Busan's waterfront. The 48,000 sqm development includes a 1,800-seat auditorium and a 300-seat multipurpose theatre, transforming a historically industrial site into a vibrant cultural and public destination.

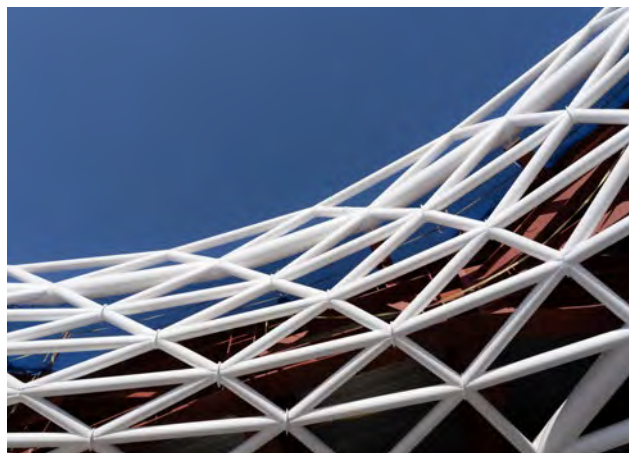
The architectural form draws inspiration from the dialogue between land, sea, and sky at the waterfront. Gently bent surfaces reference the trigrams of traditional symbolism, subtly merging and flowing together to create a unified architectural expression. The main foyer wraps around two sides of the building, orienting interior spaces toward the sea and strengthening connections between the opera house, waterfront, and public realm.

Client HJ Shipbuilding & Construction (HJSC)

Sector Leisure and Entertainment

Architect Snøhetta

Imagery © StudioSZ Photo / Justin Szeremeta



18 Cross

Singapore

Giving new life to an existing building at the edge of Singapore's Chinatown and CBD.

18 Cross is a 15-storey mixed-use building situated in Singapore's dynamic city centre. Built in the early 2000s, the development was outworn while it straddled the boundary between the city's modern and sparkling facades and the rustic and storied lanes that form Chinatown. Cundall's brief was to transform the property from an outdated commercial building into a modern mixed-use building which realises the commercial and sustainability aspirations of the client and responds to the cultural and aesthetic sensibilities of the surrounding community.

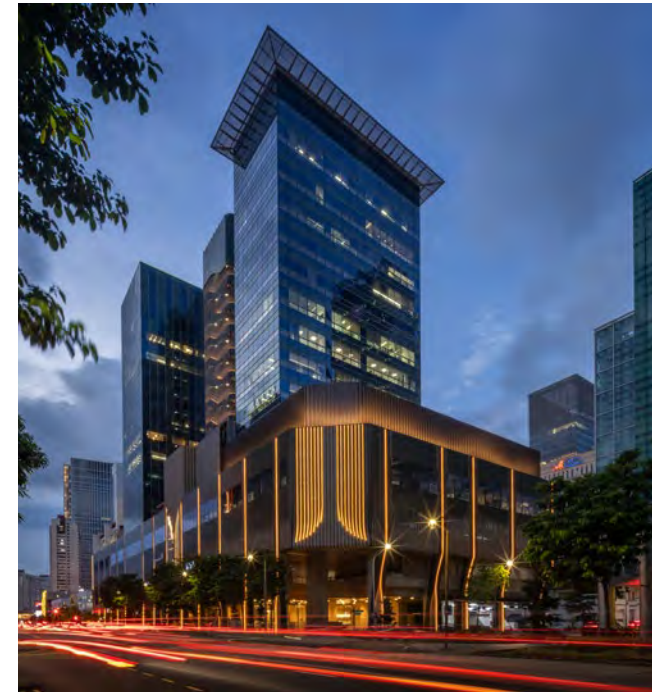
The upgrade works to the asset cover all floors from basement, retail podium and office tower. With raised ceiling heights, upgraded lifts, and improved lift lobbies and facilities, the office tower has been transformed into a Grade A office space. The newly introduced double-height drop-off area with the renovated office main lobby enhance the arrival experience.

Client Confidential

Sector Mixed-Use

Architect Benoy / DCA

Imagery © Finbarr Fallon



Lady Eleanor Holles School

Forshan, China

An adaptable, sustainable green urban campus focused on enhancing student and teachers experience.

This 47,000m² green urban school campus was planned to accommodate 875 students including boarding. The project comprises five accommodation blocks, the main school building, a 300-seat theatre, 25m swimming pool, an enclosed four court sports facility and an outdoor 400m running track.

The design has created a secure, adaptable and environmentally sustainable urban campus. Innovative solutions have optimised energy performance, addressed the region's seismic risks and countered the air quality and noise impacts from the nearby highway. A biophilic design approach, filtration of air and water and high-performance facades, enhance the health and wellbeing of students and staff.

Client Trumplech / Lady Eleanor Holles School

Sector Higher Education

Architect Scott Brownrigg



Zhuhai Banzhang Mountain Footbridge and Observation Tower

Zhuhai, China

A dramatic 625m long footbridge connecting the eastern and western mountains of the Banzhang Mountain Trail.

The Banzhang Mountain Footbridge spans 625m in length, connecting the eastern and western mountains of the Banzhang Mountain Trail. It features a spectacular 25m tall spiral walkway and a 230m bridge crossing over an existing highway. The unique design of the footbridge and spiral walkway reflects a dynamic architectural and aesthetic statement, and an engineering masterpiece. There is art in the way the footbridge's curvy geometry balances form and function. We implemented a conventional steel girder for steady performance, with steel composite and reinforced concrete to address the footbridge's complex shape and workload. The spiral walkway tower structure combines a steel exoskeleton and internal reinforced concrete lift core to follow the deck geometry and achieve overall lateral stability.



Client Holmes Miller

Sector Leisure and Entertainment / Infrastructure

Architect Holmes Miller

Imagery © Holmes Miller

Bush Stop

Singapore

Celebrating Singapore's built environment with a restorative urban feature.

Part sculpture, part living organism, part urban experiment, the Bush Stop is a modern and sustainable addition to Singapore's dynamic cityscape. In a time when cities face growing climate pressures, this joint initiative between Cundall Singapore and SPARK Architects shows how small design considerations can result in large innovations. Bush Stop reimagines the everyday transit shelter as living infrastructure - not just a place to wait, but a space that cools, cleans, and connects.

Engineered by Cundall in partnership with green builder Nature Landscapes and SPARK Architects, Bush Stop offers a quiet winner. Without relying on scale or spectacle, it invites us to see the overlooked corners of the city as opportunities for ecological repair and civic imagination.

Client SPARK Architects

Sector Masterplanning and Urban Design / Infrastructure

Architect SPARK Architects

Imagery © SPARK Architects



Alicja Kwade: Waiting Pavilions

Hong Kong, China

Strength in transparency: structural design meets Tai Kwun's artistic legacy

Alicja Kwade Waiting Pavilions is an art installation that includes six glass box sculptures created by artist Alicja Kwade. The striking installations, constructed from glass bricks bonded with structural glue, form transparent, prison cell-inspired structures across the Prison Yard, reflecting Tai Kwun's past as the Victoria Prison.

The glue, an unusual bonding material from a local perspective, was tested to withstand Hong Kong's humid, hot, and UV-prone environment, while the structure itself was engineered to endure typhoon loads. Securing local authorities approval posed significant challenges, necessitating extensive testing, structural justifications and innovative solutions to meet safety standards without compromising the delicate aesthetic. Visitors are consistently captivated by the reflective beauty and subtle historical references, seamlessly integrated into Tai Kwun's historic setting.

Client Tai Kwun Contemporary

Sector Leisure and Entertainment

Architect Beau Architects

Imagery © ORBS PRODUCTION



l'ordre des mondes (totem)

Hong Kong, China

A six metres tall, monumental sculpture at the Hong Kong harbour front.

l'ordre des mondes (totem) is a towering structure that stands over six meters tall at the Tsim Sha Tsui waterfront and is designed to encourage us to contemplate our relationship with the universe. The artwork features seven marble spheres representing planets, suspended above a framework made of ordinary chairs, creating a captivating contrast between the domestic scale and the vastness of the cosmos.

The Cundall structural team collaborated closely with the artist, Alicja Kwade, Pace Gallery and K11 to create a slender structure that allowed the artist's vision to be fulfilled. Our team examined the artistic concept, materials, and environmental factors to design a robust and harmonious structural framework that supports and enhances the sculpture's aesthetic appeal.

Client Alicja Kwade / Pace Gallery

Sector Retail and Placemaking

Architect N/A



Hong Kong Immigration Tower

Hong Kong, China

An innovatively sustainable reprovion of a government facility.

The goal was to reprovion the previous headquarters, designing and constructing a brand-new Immigration Headquarters in one of Hong Kong's residential areas. The team faced various challenges as the new headquarters looked to incorporate previously off-site offices, facilities, and leased premises into the new building.

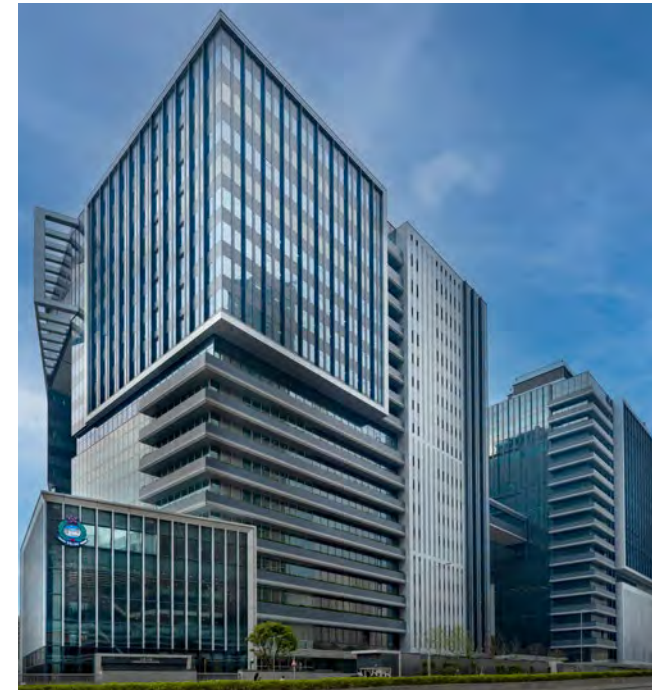
Sustainability, environmental, and air ventilation assessments were conducted to optimise the orientation of the building to allow natural airflow, control sunlight exposure, and create favourable microclimates around the site. The use of materials such as FSC and PEFC-certified wood products and locally sourced materials further contributed to the building's sustainable goals.

Client Hong Kong Immigration department / ArchSD

Sector Government

Architect P&T Group

Imagery © Hip Hing



TIDES, Whampoa

Hong Kong, China

Hong Kong's newest music and event space.

TIDES Hong Kong is a purpose-built venue to accommodate the demands of modern music tours. Designed with fully integrated touring infrastructure and production capabilities, it is the only medium sized venue with these features in the region.

Situated within a busy urban area with residences as close as 6 meters away, this venue demanded a sophisticated acoustic approach to manage the elevated sound levels and deep low-frequency output from large subwoofers.

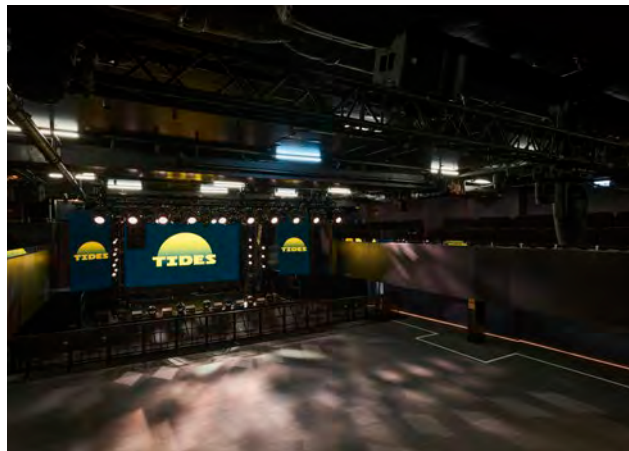


Client Live Nation Venues (HK) Company Limited

Sector Leisure and Entertainment

Architect Panorama design group

Imagery © TIDES



Treehouse

Hong Kong, China

Award-winning Net Zero Carbon climate-adapted, biophilic workplace concept in Hong Kong featuring engineered timber to reduce embodied carbon.

As part of the winning team, Cundall collaborated with Ronald Lu & Partners for this future-ready Net Zero design. The Treehouse concept is an eco-conscious integrated system that aims to reconnect humanity and nature. It is a net-zero energy, smart, biophilic and wellness-focused workplace envisioned for the cohorts of the climate change generation.

Cundall provided multi-disciplinary consultancy on building services, structural engineering, sustainability, smart building, information technology, and lighting design. Engineering excellence integrates and harmonises the architectural features, human needs, local environment, and future education. The building has been refined to allow for structural timber and lightweight concrete to reduce embodied carbon. The building geometry is optimised to maximize PV and self-shading while allowing for natural ventilation.

Client Swire Properties / HKGBC

Sector Workplace / Mixed-Use

Architect Ronald Lu & Partners

Imagery © Ronald Lu & Partners



Eight Star Street

Hong Kong, China

Contemporary and sophisticated lighting design for a luxury residential building in the eclectic Star Street Precinct.

Located in the vibrant neighbourhood of Star Street Precinct, Eight Star Street is a luxury residential tower housing 37 one- to three-bedroom units, and exclusive amenities including a gymnasium and covered garden. The property is surrounded by a tempting array of trendy cafes, fashion boutiques, and galleries, creating a dynamic and enticing hub of round-the-clock activity.

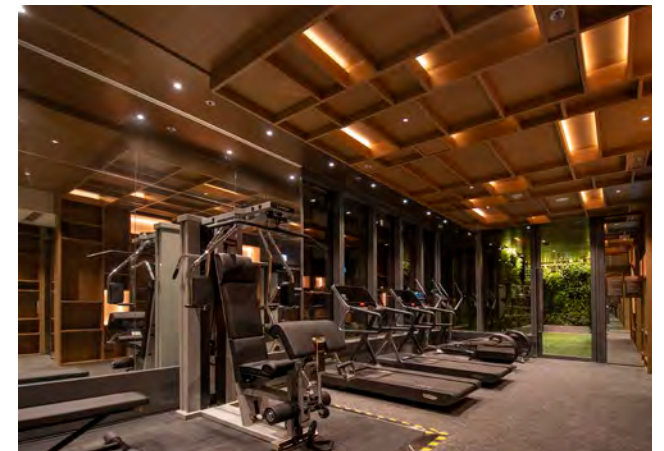
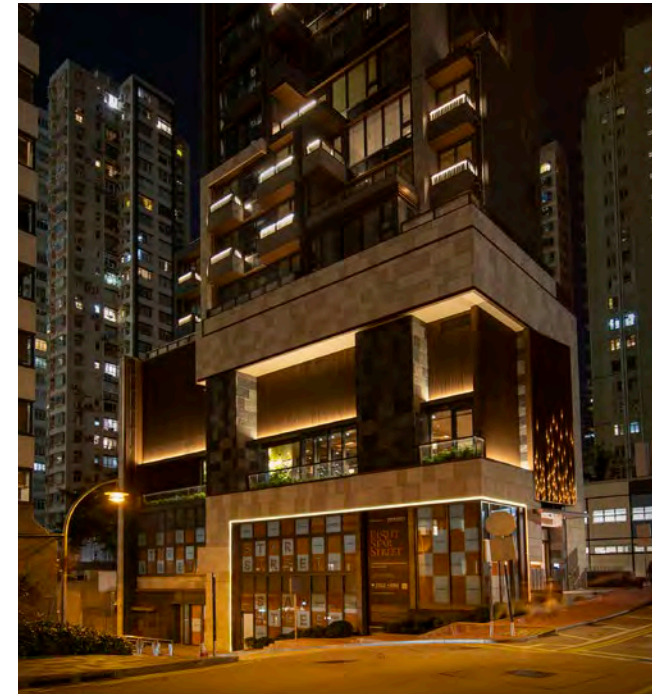
Cundall's Lighting team provided a suite of lighting design services for Eight Star Street's private spaces, shared facilities, public lobby and façade. With an emphasis on creating a gracious aesthetic, indirect lighting on the façade highlights elegant architectural features. Bespoke features include linear lighting within balcony balustrades to reduce glare from street level and enhance the air of sophistication.

Client Swire Properties

Sector Residential

Architect DLN Architects Limited

Imagery © Cundall



The Yard for Enviromental Sustainability Pavilion

Hong Kong, China

The Yard of Environmental Sustainability (YES) Pavilion is a permanent brick construction located on the Chinese University of Hong Kong's campus.

As part of a larger campus sustainability initiative, this structure is designed to provide environmentally friendly amenities such as a recycling station, storage lockers, and a book exchange area. Its unique curving form was intentionally designed and constructed using innovative methods that emphasise circular-economy principles, including responsible material use and waste minimisation.

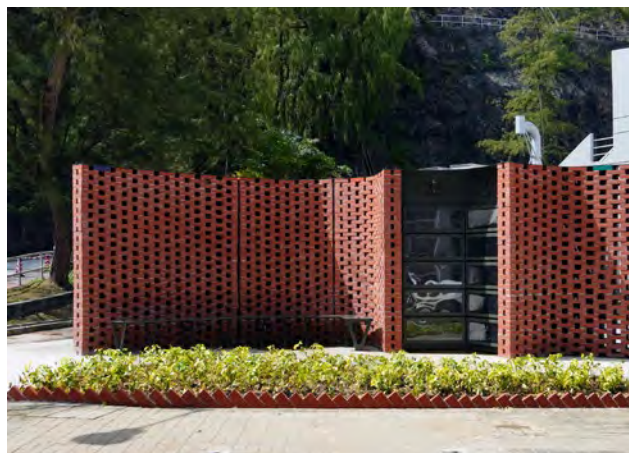
The pavilion was built using Cable Robotic Construction Technology, designed in collaboration with the university's architecture and mechanical engineering departments. The robot comprises a metal gripper and a series of mounted cable actuators. Using advanced intelligence software, the robot can generate construction plans within predetermined boundaries and create highly accurate, continuously automated constructions.

Client CUHK School of Architecture and Robotic Laborator

Sector Higher Education

Architect CUHK School of Architects

Imagery © School of Architecture / The Chinese University of Hong Kong



AOAO

Hong Kong, China

Lighting design merges with art to transform dining into an enchanting, immersive sensory journey.

AOAO, a contemporary Japanese izakaya & rooftop bar located in Central, fuses dining with immersive art and music within a gemstone-inspired interior. Working with 430 Ltd, the Cundall team crafted the lighting design to create a captivating atmosphere. Inspired by the rich hues of natural gemstones, a smooth concrete at the entrance beckons visitors towards an intriguing journey into a dining space imagined as an enchanting greenery realm.

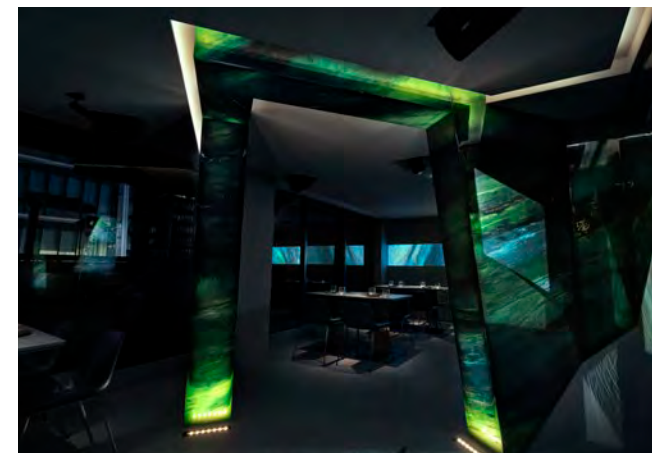
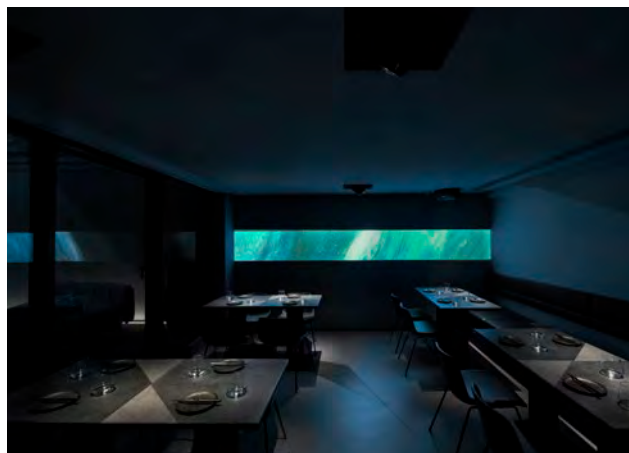
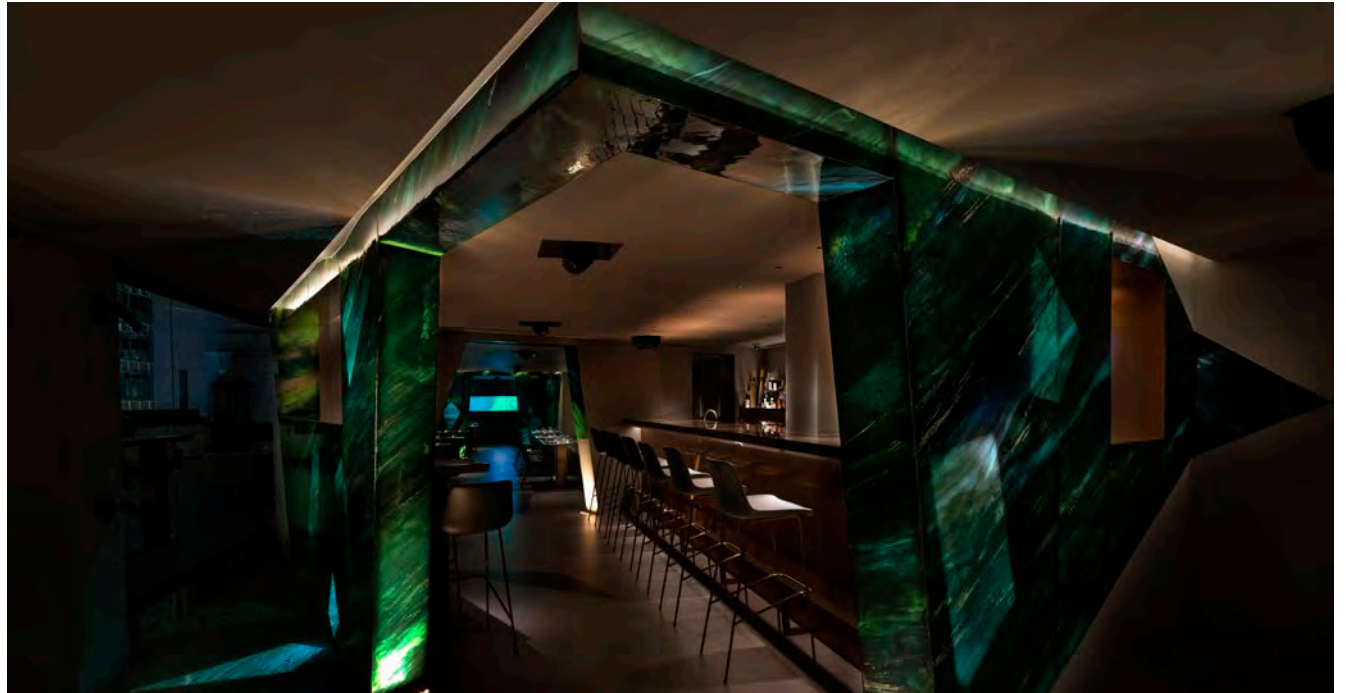
The interplay of lighting upon a feature wall of resin art creates varying shades of green shadows and reflections, elevating the overall sensory journey. Through the synergy of innovative lighting techniques, dynamic scenes, and unwavering attention to detail, the Cundall lighting design team transcended the ordinary, allowing diners to engage with an opulent world of beauty and serenity.

Client Art and Attitude Limited

Sector Hotels and Hospitality

Architect 430 Ltd

Imagery © Chris Luk Photography



Projects delivered in Australia

We understand that every successful project requires the experience not only to see what is directly ahead, but to anticipate the landscape of possibilities, and respond proficiently to whatever comes along - pairing precision of process with creative thinking outside the box.

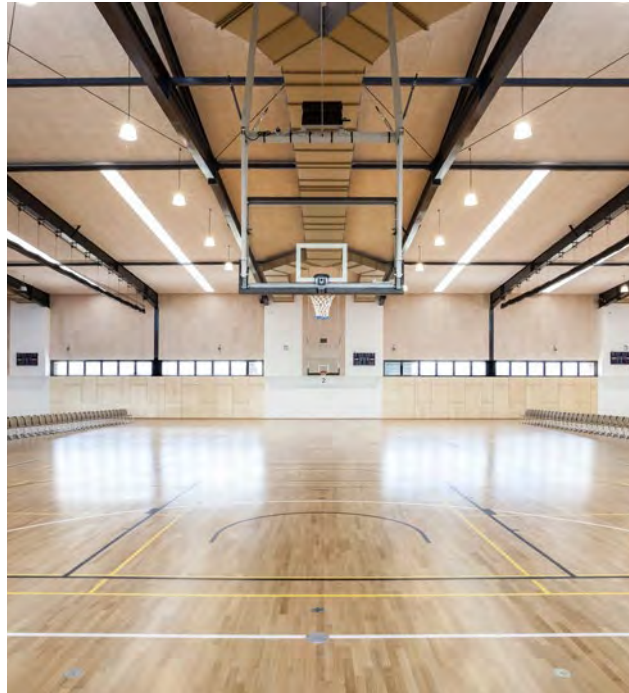
121 Castlereagh Street, Gadigal Country, Sydney, NSW, Australia © CBUS and FJMT Studio

Narrandjeri Stadium

Wurundjeri Woi-wurrung Country, Thornbury, VIC, Australia

A state-of-the-art stadium that provides Melbourne's community with premium sports facilities.

Narrandjeri Stadium serves Melbourne's inner north community with three versatile indoor courts for netball, basketball, badminton, and volleyball. The stadium features 298 fixed seats and six accessible spaces for indoor show courts, along with player and umpire changerooms, administrative offices, an onsite café, external landscaping, and ample car parking with EV charging facilities.



Client City of Darebin
Sector Sports Venues
Architect Brand Architects
Imagery © Chris Matterson



Gadigal Station

Gadigal Country, Sydney, NSW, Australia

Integrating a belowground Metro station in the centre of Australia's busiest city.

Gadigal Station sits at the heart of Sydney's new state-of-art metro system, connecting wider suburbs with the city's central business district and major retail precinct. Sitting at around 17 metres underground, the 250-metre-long station provides strategic relief to neighbouring Town Hall station and allows passengers to interchange with ease onto other modes of public transport.

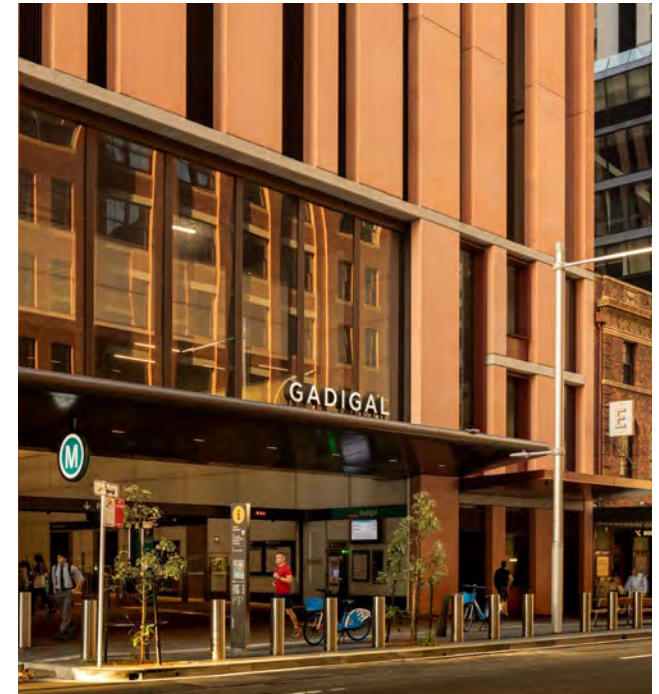
Cundall's sustainability team led Gadigal Station's Green Star submission and inputted into the Life cycle assessment (LCA) for the ISCA rating. Our team also worked with the client to ensure the project met Sydney Metro's wider sustainability strategy. The station features integrated public art, as well as a universal design and wayfinding system to ensure easy access and navigation for all passengers.

Client CPB / NSW Government, Sydney Metro

Sector Infrastructure

Architect Foster+Partners / Cox Architecture

Imagery © Felix Mooneeram / Sydney Metro



Upper House by Aria, 66 Hope Street

Turrbal Country, Brisbane, Australia

One of Brisbane's tallest residential towers featuring dramatic architectural flourishes and enhanced building performance standards.

Located in Brisbane's Southbank cultural precinct, the 30-storey residential tower features architectural flourishes inspired by natural forms. It comprises 188 two-bedroom and three-bedroom apartments, ground floor lobby with retail and a double-storey rooftop residents' club with pool, wellness centre, lounge bar and other premium facilities. The project also targeted energy and natural ventilation standards well above minimum compliance.

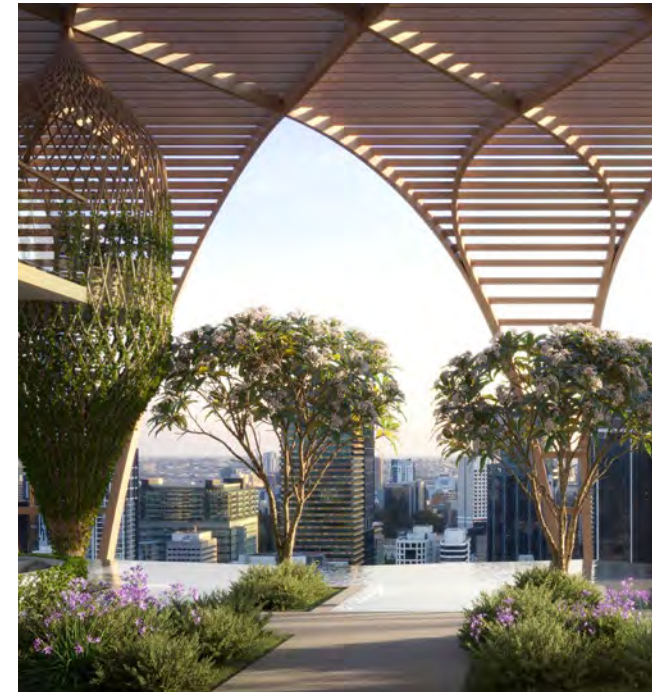
We worked closely with the builder, Icon Group, as the project lead for NCC Section J verification and compliance and developing the NatHERS pathway. Our team also undertook a Life Cycle Assessment for materials and building systems. Sustainability benchmarks were established before works commenced, embedding high performance into the project specifications and construction program.

Client Minicon

Sector Residential

Architect Koichi Takada Architects

Imagery © Aria, Koichi Takada Architects, Binyan Studio



101-121 Castlereagh Street

Gadigal Country, Sydney, NSW, Australia

Transforming a heritage-listed department store into a luxury mixed-use tower.

121 Castlereagh Street is a major redevelopment of the heritage-listed former David Jones department store, transforming it into a 32-storey luxury mixed-use residential and commercial tower. Located in the heart of Sydney (Gadigal Country), the project includes 11,500 square metres of premium-grade office space, an upgraded retail podium, and an elevated residential addition featuring 98 luxury apartments.

Cundall provided ESD consultancy services from the early design stage through to completion. Our team led the Green Star submission for the office and retail floors, as well as BASIX and NatHERS assessments for the residential tower. The office space is targeting a 6 Star Green Star – Design & As Built rating and a Platinum WELL certification, while the retail space is targeting a 5 Star Green Star – As Built rating.

Client Scentre Group and CBUS Property

Services Residential / Workplace / Retail and Placemaking

Architect fjcstudio

Imagery © CBUS and FJMT Studio



Curtin University Masterplan

Whadjuk Noongar Country, Perth, WA, Australia

Planning for delivery of the connected, inclusive, low-carbon, technology-enabled campus of the future.

The Greater Curtin University masterplan is an evolving and ongoing project to transform the Bentley Campus into a 'City of Innovation'. This 6 Star Green Star Communities masterplan delivers a multi-faceted hub for industry innovation, social connection and community engagement. The vision is underpinned by advanced sustainability thinking, technological innovation and a commitment to universal design and inclusive accessibility.

We have provided ongoing sustainability consulting since 2018. Our strategic design advice and Green Star Consulting services combined with client ambitions resulted in a rating rise from the initial 5 Star Green Star Communities in 2015 to 6 Star Green Star Communities in 2020. Cundall's security team has also provided advice on crime prevention through environmental design (CPTED).

Client Curtin University

Sector Higher Education

Architect N/A

Imagery © Curtin University



First Building, Bradfield City Centre

Dharug Country, Bradfield City, NSW, Australia

A state-of-the-art innovation hub with sustainability and First Nations culture built into its design.

The First Building, housing stage 1 of the Advanced Manufacturing Readiness Facility (AMRF), is an innovation accelerator located in Bradfield City Centre (Dharug Country) in Western Sydney. It offers world-class shared facilities for advanced manufacturing technology, expertise, training, and networks. As the First Building in Bradfield City Centre, the building marks the creation of a new innovation-centric city in Australia and sets a benchmark for future development in the area.

The project is targeting a 6 Green Star Buildings v1 rating and is designed to accommodate a 5.5 Star NABERS Energy Rating. The building features an extensive green roof, photovoltaic panels with a capacity to generate 332MWh of energy, and responsible materials to limit upfront embodied carbon, including a timber frame and rammed earth walls manufactured from locally sourced material. The project incorporates principles of Designing with Country, celebrating local waterways and the Cumberland Plain, with rainwater harvesting, water sensitive urban design and native landscaping.

Client Bradfield Development Authority

Sector Science and Technology / Industrial

Architect Hassell

Imagery © Mark Syke



Maribyrnong Civic Precinct and Community Building

Wurundjeri Woi Wurrung Country, Melbourne, VIC, Australia

Australia's first 6 Star Green Star Buildings
Designed assessed building.

The major redevelopment consisted of refurbishing and conserving the heritage listed Footscray Town Hall, demolition of the existing Council buildings, and construction of a new building that serves as the Council's new civic and community hub and a new community park. The project will deliver a sustainable, contemporary, and long-term development that is fit for purpose for the delivery of the Council's and the community's facilities and services.

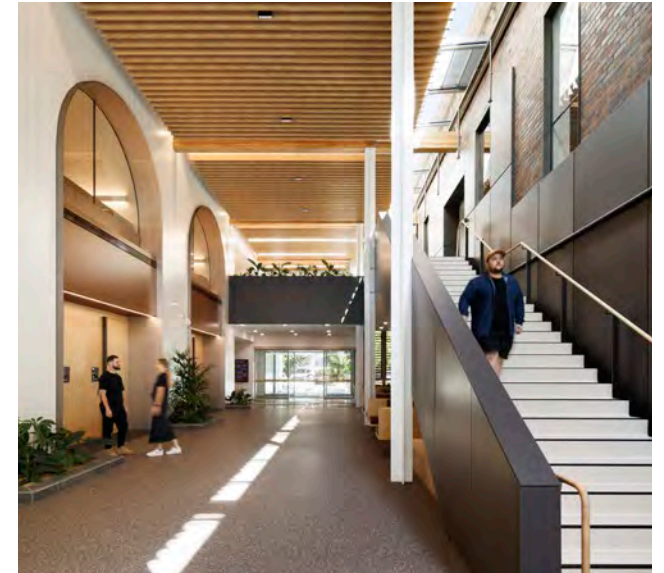
Our ESD team led the Green Star submission and set out a strategy to uplift ambitions from a 5 Star As Built rating to a 6 Star Green Star Buildings rating. Our building services team designed low energy and fossil fuel free systems including an all-electric thermal plant, underfloor air distribution system and a 70kW solar PV. Building performance modelling was conducted to assess operational energy reduction, as well as daylight modelling to optimise internal environment quality and a life cycle assessment to analyse upfront carbon emissions.

Client Maribyrnong City Council

Sector Government

Architect DesignInc / Outlines Landscape Architects

Imagery © Dianna Snape Photography Pty Ltd



OurPlace@RMIT QV

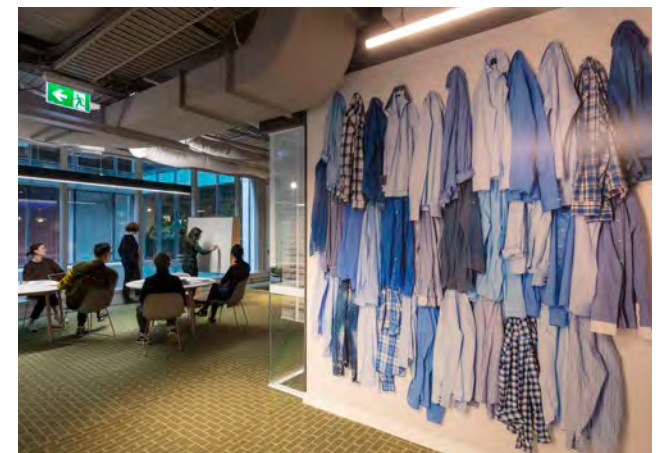
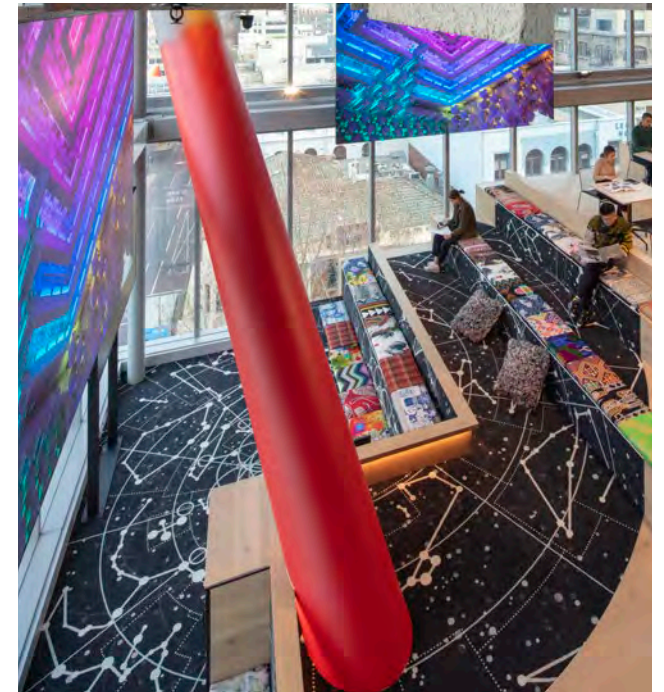
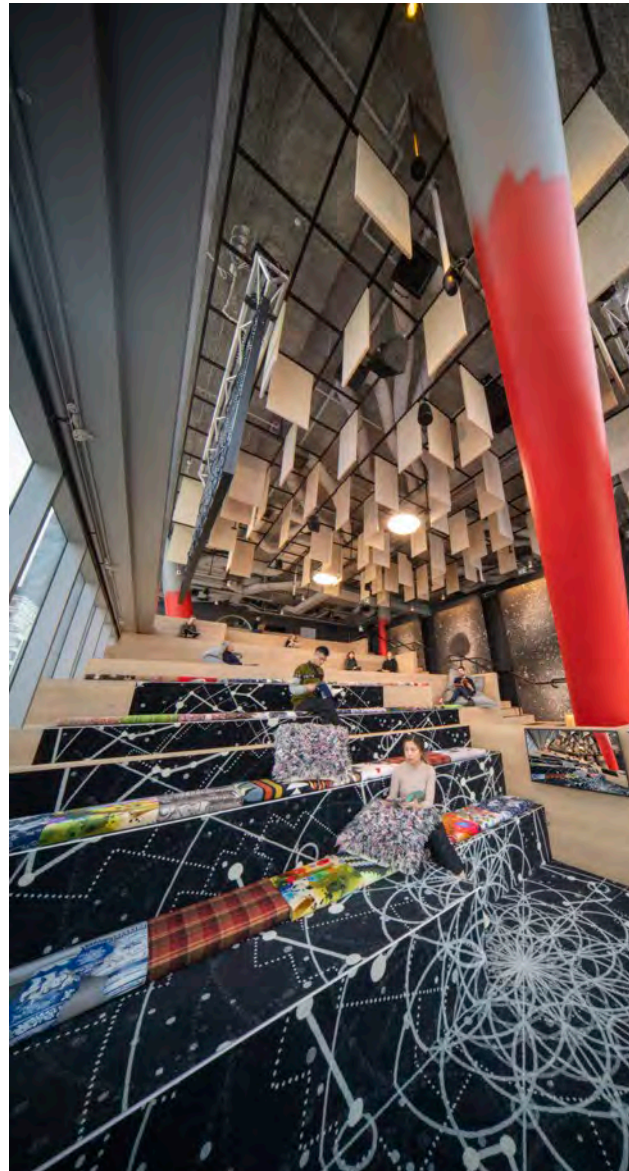
Wurundjeri Country, Melbourne, Australia

Teaching by example with a workspace that respects Indigenous culture and demonstrates exemplary environmental stewardship.

In consolidating approximately 1000 of its professional and administrative staff from multiple locations into one 10,600m² office fit-out within the QV building, RMIT University took the opportunity to apply best-practice ESD principles. In addition to achieving a 5 Star Green Star Interiors rating, the new fit-out aimed to be beyond reproach in relation to Indigenous recognition and ensure accessibility and equity for all staff and visitors.

We worked closely with RMIT to support their existing ESD frameworks for the project, including consideration of WELL Building Standard health and wellbeing principles. Our team led the delivery of Green Star rating requirements throughout design and delivery, embedding concepts to support human health and high-performance building services. As the Independent Commissioning Agent, Cundall also ensured the office performed as designed.

Client RMIT University
Sector Higher Education
Architect ARM / Geyer
Imagery © John Gollings



Australian Bragg Centre (ABC)

Kaurna Country, Adelaide, Australia

A specialist biomedical centre in the heart of Adelaide's health precinct.

The Australian Bragg Centre (ABC) is a specialist medical facility located in the heart of Adelaide's (Kaurna Country) health and bio-medical precinct. It is a hub for start-ups and established companies to commercialise their medical and scientific innovations.

Cundall was engaged to provide sustainable design advice and LEED consultancy services across the project, from schematic design phases through to commissioning and handover. In 2024, ABC received a LEED Gold Certified Rating, demonstrating best practices in environmental responsibility and sustainability. Key features include high performance façade and shading strategy, efficient lighting, mixed mode atrium ventilation and rooftop solar PV array, with a capacity to generate 54kW of renewable energy.



Client SAHMRI / Dexus

Sector Science and Technology / Healthcare

Architect Woods Bagot

Imagery © James Knowler

Port of Brisbane - Electrolux Distribution Centre

Turrbal and Yuggara Country, Brisbane, QLD, Australia

An award-winning industrial facility with a leading sustainable design.

Electrolux's 21,255m² distribution centre, located in Queensland's premier logistics hub, is a landmark project in sustainable industrial design. The facility comprises expansive warehouse space, experience centre, two-storey office, repairs workshop, hardstand/truck apron, and dedicated car parking. Purposefully designed to support large-scale logistics and operations, the centre sets a new global benchmark for environmentally responsible industrial buildings.

Targeting a 6 Star Green Star rating (v1.3), the facility integrates a range of advanced sustainability features, including a 1.1MW rooftop solar system for renewable energy generation, low carbon concrete to reduce embodied emissions, and a striking timber structure crafted from Glulam and Cross Laminated Timber (CLT). Water efficiency and recycling initiatives are also embedded into the design, with rainwater harvested for use in bathrooms and appliance testing, and water from fire system testing repurposed to minimise waste.

Client Port of Brisbane / McNab

Sector Industrial

Architect Sparc* Architects

Imagery © Scott Burrows Photography



Bayswater Station

Whadjuk Noongar Country, Bayswater, WA, Australia

A certified 6 Star Green Star train station serving the Bayswater community.

Bayswater Station (Biraliny) is a key component of METRONET, Western Australia's ambitious program to upgrade Perth's train network. Designed by Hassell and constructed by Evolve Bayswater (Acciona and the Public Transport Authority), the project was a complex undertaking focused on modernising the ageing station. The upgraded Station encourages greater public transport use, featuring a new bus interchange integrated into the station precinct to seamlessly connect rail and bus services. It also significantly improves cycling and pedestrian access, enhancing the overall connectivity and accessibility of the area.



Client Evolve Bayswater (Acciona) / Public Transport Authority of Western Australia

Sector Infrastructure

Architect Hassell

Imagery © METRONET

Perth Children's Hospital

Whadjuk Noongar Country, Perth, WA, Australia

A specialist paediatric hospital and trauma centre leveraging state-of-the-art design to deliver improved healthcare outcomes.

Comprising four interconnected buildings, the Perth Children's Hospital provides world-class treatment and care to patients 15 years and under. The facilities include 298 in-patient beds, 12 multi-use operating theatres, retail, entertainment areas for patients and a helicopter pad for emergencies. Evidence-based design principles were incorporated to ensure an exceptional level of healthcare.

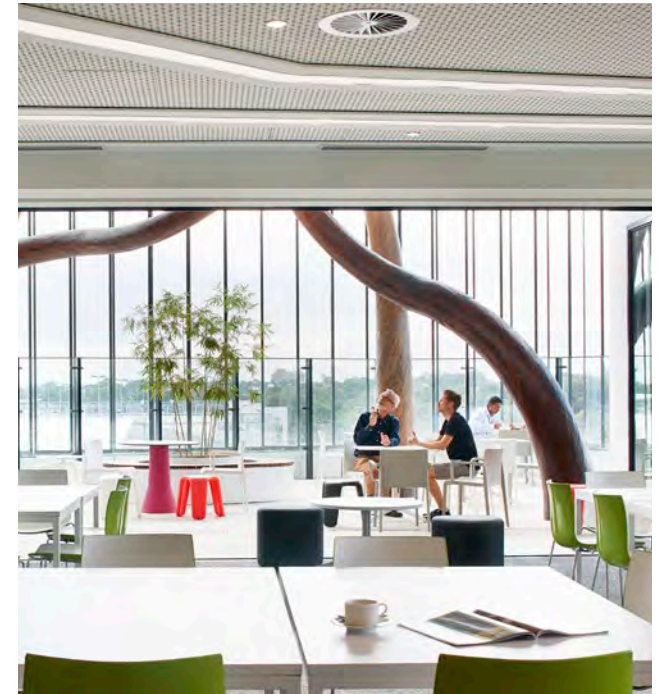
Cundall's building services team assisted with the commissioning of all the services for the facility to ensure the hospital operates at the designed levels of efficiency. The commissioning scope included the base building mechanical, electrical, fire protection and hydraulic engineering services in addition to specialist applications for medical gases, pneumatic tubes, steam and an Automated Guided Vehicle system.

Client John Holland

Services Healthcare

Architect JCY / Cox / Billard Leece / HKS

Imagery © Shannon McGrath



Centre for Higher Education Studies

Wurundjeri Woi-Wurrung Country, Donvale, VIC

State-of-the-art educational and research facilities.

The Centre for Higher Education Studies provides high-achieving secondary school students with specialist learning facilities, supporting their transition from secondary to tertiary studies. Located in Melbourne's South Yarra suburb, the design navigates the complexities of a busy urban environment to create a peaceful space for teaching, and integrates a central atrium, connecting students with natural light, ventilation and landscape to encourage stronger learning outcomes.

Cundall provided both sustainability consulting and multidisciplinary building services design including electrical, mechanical, acoustics, hydraulics, fire, and lighting. Our team worked with the client to enhance indoor environment quality by incorporating natural ventilation, daylighting and passive thermal performance. The digital engineering-led design also minimises operational costs through enhanced energy efficiency and optimised integration between different building services.

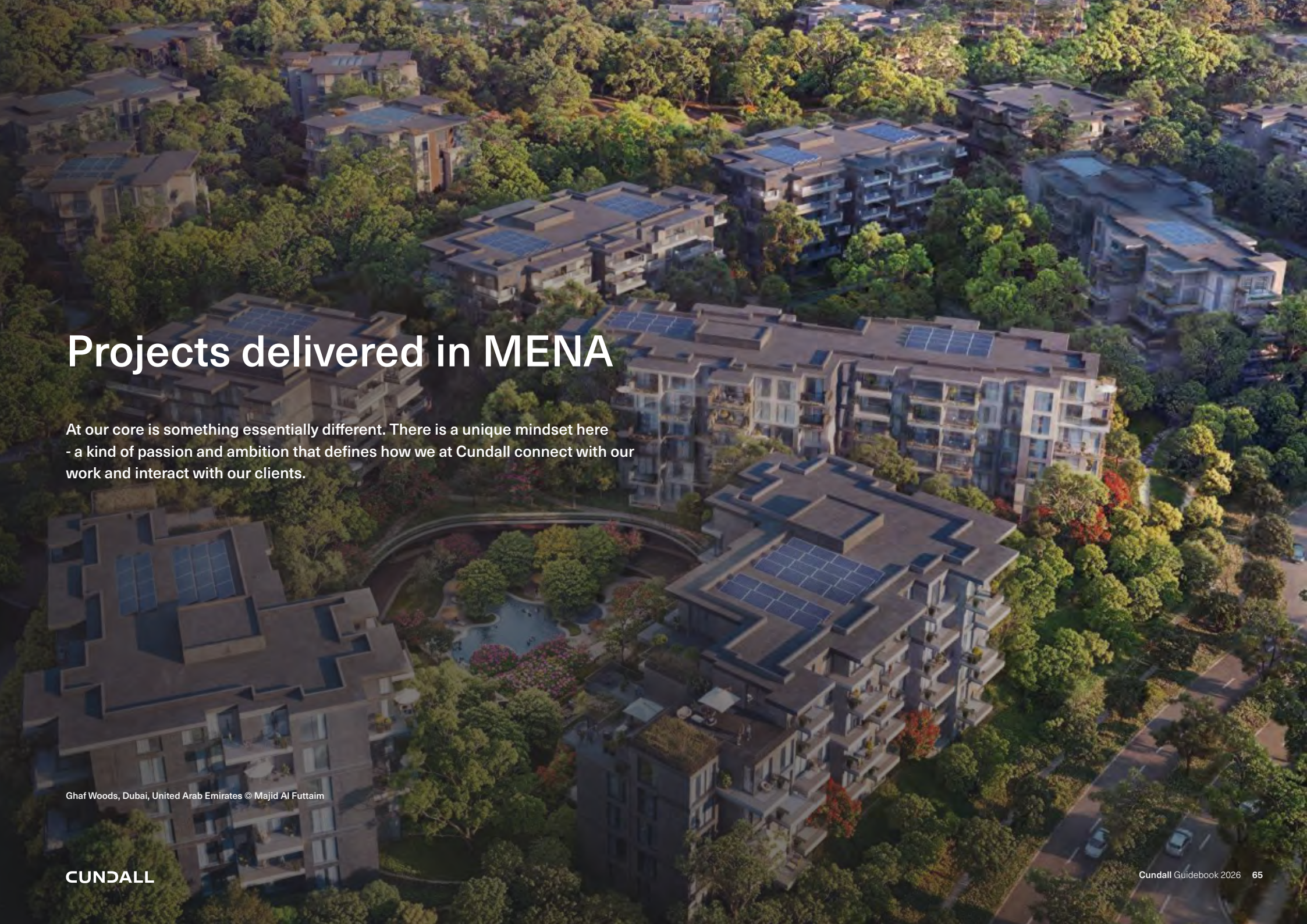
Client Victorian School Building Authority (VSBA)

Services Building services and sustainability

Architect Brand Architects and Fieldwork

Imagery © Tom Ross Photography





Projects delivered in MENA

At our core is something essentially different. There is a unique mindset here - a kind of passion and ambition that defines how we at Cundall connect with our work and interact with our clients.

Ghaf Woods, Dubai, United Arab Emirates © Majid Al Futtaim

Abu Dhabi Maritime's 'Community Activation Programme' pilot projects

Abu Dhabi, United Arab Emirates

Transforming Abu Dhabi's maritime landscape.

Abu Dhabi's vision is to become one of the world's top ten maritime cities. The Abu Dhabi Maritime's 'Community Activation Programme' pilot projects is part of the emirate waterways five-year plan to establish a roadmap for developing essential public maritime infrastructure throughout Abu Dhabi, connecting islands and coastlines to the wider community.

Cundall was engaged to provide engineering services from concept masterplan stage through to tender for a portfolio of projects with different themes comprising marinas, ferry terminals and mooring functions for leisure craft and ferries. Our team provided support in developing a brief for the various types of maritime uses and interfaces and embedding them into a functioning masterplan.

Client Abu Dhabi Maritime & Abu Dhabi Ports Group

Sector Masterplanning and Urban Design

Architect LWK + PARTNERS

Imagery © LWK+PARTNERS



Ghaf Woods

Dubai, United Arab Emirates

Ghaf Woods is a visionary wellness and sustainability focused development spearheaded by Majid Al Futtaim (MAF).

Conceived as a forest-integrated community, the project pushes the boundaries of sustainable development in the UAE and wider MENA region. The 738,000m² masterplan comprises approximately 7,000 premium residential units and aims to become carbon positive, while delivering 20% cleaner air than the rest of Dubai and temperatures up to 5°C cooler through its nature-led design approach.

Cundall delivered the project's strategic sustainability and wellness frameworks, helping to shape its ambitious environmental and health goals. This included site-wide and building-level whole life carbon assessments, a circular economy strategy, and comprehensive sustainability and wellness frameworks, alongside guidance for community and building level certifications under WELL and LEED rating systems. Together, these strategies enhance environmental performance and support the long-term resilience of the development. The project has also achieved the highest WiredScore Home Platinum accreditation for smart residential schemes.

Client Majid Al Futtaim

Sector Masterplanning and Urban Design / Residential

Imagery © Majid Al Futtaim



Orla Infinity

Dubai, United Arab Emirates

A luxurious residential development located on the prestigious Palm Jumeirah, Dubai.

Located on Palm Jumeirah, this prestigious 63,700m² residential development brings a contemporary architectural vision to one of Dubai's most iconic destinations. The scheme comprises 85 exclusive residences of varying sizes, complemented by an additional 20 ultra-luxury duplexes. Working alongside P&T Architects and Engineers and in collaboration with Foster + Partners, Cundall provided civil engineering and infrastructure design services from pre-concept through to Issued for Construction (IFC) stage.

Our team developed a utility infrastructure strategy to connect the development to external networks, while seamlessly integrating with the project's building services systems across all site assets and basements. A comprehensive stormwater management strategy was developed, utilising infiltration-based drainage measures to address the site's high groundwater conditions and deliver a sustainable surface water disposal solution.

Client Omniyat Concept Investments LLC

Sector Residential

Architect P&T Architects and Engineers

Imagery © P&T Architects and Engineers



Amazon Dubai

Dubai, United Arab Emirates

A major headquarter office fit-out supporting sustainability, wellbeing, and high performance.

Cundall delivered LEED Gold consultancy and performance simulation services for the new Amazon Dubai headquarters, an 18,000m² major fit-out providing workstations and collaborative spaces for nearly 2,500 Amazonians.

Sustainability was a central design driver, aligned with Amazon's bespoke Workplace Sustainability Guidelines. The completed space delivers a high-performance, low-impact workplace that supports wellbeing and productivity, while providing a healthy, comfortable, and inspiring environment.



Client Amazon
Sector Workplace
Architect IA Interior Architects
Imagery © Amazon

The Storm Coaster

Dubai, United Arab Emirates

A Guinness World Record breaking rollercoaster integrated directly into the structure of the building, pushing the boundary of all aspects of engineering design.

The award-winning indoor rollercoaster is a unique entertainment attraction and the first of its kind. It has a 670m track and 50m high vertical launch with a track that is integrated directly into the building. Cundall was the Lead Design Consultant, designing and coordinating all building aspects across six different time zones. Close collaboration with creative consultant (Thinkwell), the rollercoaster supplier (Intamin), project manager (JLL MENA) and the main contractor (ALEC) was the key to making this structure a success.

Our Structural Engineers played a vital role in the formation of the building with all aspects of the shape being dictated by the roller coaster design due to the track and structural requirements. The track is extremely complex geometrically, as it rotates on all axis within the three-dimensional space of the building. Due to such challenges, parametric modelling was a necessity and was implemented from day one of pre-concept design.

Client EMAAR Entertainment

Sector Leisure and Entertainment

Architect Cundall

Imagery © Emaar Entertainment



Schneider Electric

Dubai, Middle East

Setting a new benchmark for smart, sustainable and inclusive workplaces.

Schneider Electric's new 10,000m² flagship office in Dubai, known as 'The NEST,' brings together a dynamic workplace, hands-on training facilities, and the company's first Innovation Hub in the UAE. This immersive hub allows visitors to explore Schneider's technologies across diverse environments - from offices and homes to data centres and beyond. With a Platinum SmartScore certification already achieved, and LEED ID+C Platinum and WELL Equity certifications in progress, The NEST is set to become a regional benchmark for smart, sustainable, and inclusive spaces.

A standout feature of the fit-out is the Innovation Hub itself, a complex, AV/IT-intensive space designed to showcase Schneider's latest technologies. It includes a fully functional data centre on display, presenting unique engineering challenges. High internal heat gains and infrequent operating hours required a carefully considered cooling strategy, ensuring thermal comfort and system resilience without compromising energy efficiency.

Client Schneider Electric

Sector Global Corporate Real Estate

Architect Gensler

Imagery © Christopher Goldstraw



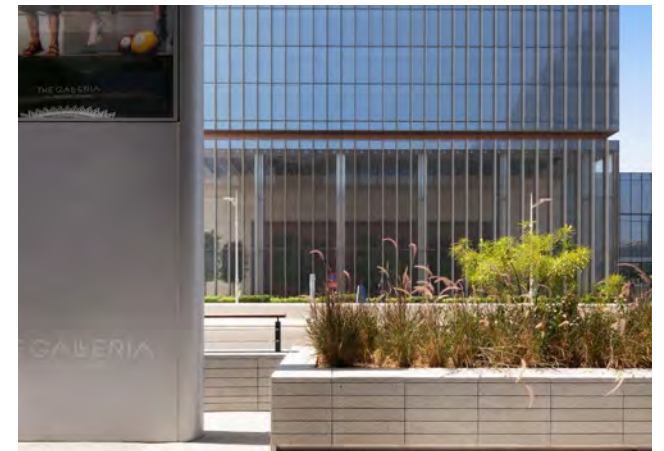
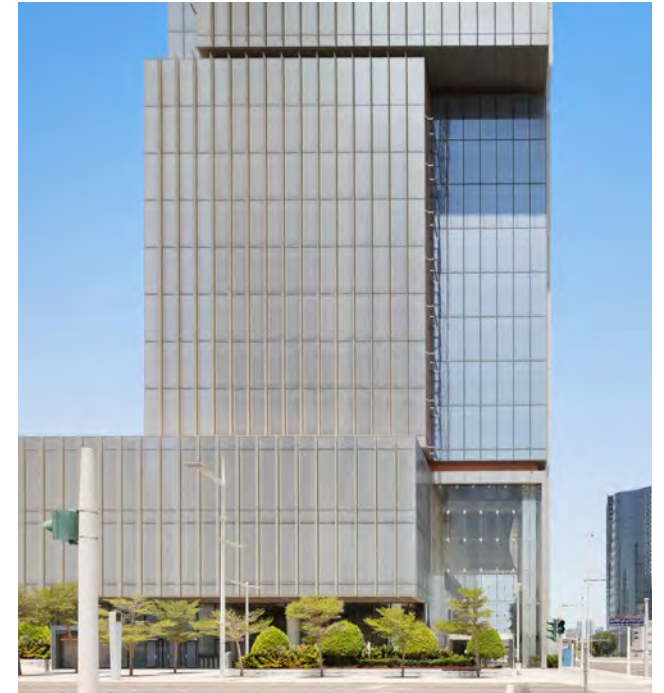
Al Maryah Tower

Abu Dhabi, United Arab Emirates

A landmark 26-storey tower setting a new standard for sustainable retrofit in the Middle East.

Al Maryah Tower is a 26-storey, 87,570m² development in Abu Dhabi with three podium and six basement levels. Originally designed as a single-tenant building, it stood vacant for several years before being repositioned as 49,110m² of Grade A commercial space. Today, it is subdivided into 68 tenancies, including five retail and food and beverage outlets, with a direct connection to the adjacent Galleria Mall. Once at risk of becoming a stranded asset, Al Maryah Tower has been reimagined through one of the region's largest and most complex commercial retrofits and now stands as a scalable model for repurposing underutilised buildings across the GCC.

Client Aldar
Sector Workplace
Architect N/A
Imagery © Aldar



Greater Salalah Structure Plan

Salalah, Oman

Shaping sustainable, resilient urban growth in Oman through an integrated spatial vision for Greater Salalah's future development.

The Greater Salalah Structure Plan will play a defining role in shaping the future of southern Oman, underpinning the Oman National Spatial Strategy and its vision for a more sustainable, resilient urban environment. Commissioned by the Ministry of Housing and Urban Planning, the plan sets out a long-term framework to guide the growth and development of Salalah and its surrounding region.

Cundall was appointed as part of a multi-disciplinary consortium led by F&M Middle East and Sasaki. We are leading on utility infrastructure, flood risk analysis, and sustainability, as well as guiding the smart city strategy set to affect an expansive 500km² study area. Through creating a robust governance framework we will guide long-term spatial development. This includes defining the distribution of key land uses, infrastructure networks, and essential urban functions, with intent to support sustainable socio-economic growth.



Client Ministry of Housing and Urban Planning

Sector Masterplanning and Urban Design

Architect Sasaki

Imagery © AdobeStock

Family Entertainment Centres Portfolio

Multiple locations, Kingdom of Saudi Arabia

Delivering 21 Family Entertainment Centres (FEC's) across multiple locations.

Saudi Entertainment Ventures (SEVEN) are transforming the region's entertainment landscape, bringing new, unique, and exciting experiences to millions of people across the Kingdom. As the Lead Design Consultant, Cundall delivered 21 Family Entertainment Centres (FEC's), ranging in size from 500 to 10,000m². The FEC's will function as a key entertainment attraction within a wider complex.

The delivery of these projects at such a huge scale, with consultants and vendors from across the globe, has meant that close collaboration and knowledge sharing has been key. Cundall integrated the requirements of multiple rides, thematic, show, AV and interactive vendors. Ensuring compliance with the provisions provided by the complex shell.



Client Saudi Entertainment Ventures (SEVEN)

Sector Leisure and Entertainment

Architect Cundall

Imagery © Saudi Entertainment Ventures (SEVEN)

Saikindō

Abu Dhabi, United Arab Emirates

Transforming an existing space into a high-end luxury destination.

Saikindō is an immersive new Hi-Fi cocktail bar and restaurant at the Four Seasons Hotel Abu Dhabi, where high-fidelity sound and mid-century Japanese design come together to create a transportive experience. More than a bar, Saikindō reimagines the region's entertainment landscape, bringing music enthusiasts and cocktail connoisseurs into a refined, art-driven environment that feels worlds away from the everyday.

Cundall worked closely with a multinational team including CSQ (project manager and cost consultant) and international interior design consultant, AvroKO throughout the design and construction phases. Completing a technically complex fit-out within a live, fully operational five-star hotel required meticulous planning, coordination and sequencing to minimise disruption to guests and hotel operations.

Client Mubadala

Sector Hotels and Hospitality

Architect AvroKO

Imagery © Four Seasons



Multipurpose Event Venue Portfolio

Multiple locations, The Kingdom of Saudi Arabia

Elevating the benchmark for entertainment venues in the Kingdom of Saudi Arabia.

Saudi Entertainment Ventures (SEVEN) rapid development of KSA's entertainment ecosystem seeks to diversify the country's economy and enrich the lives of all Saudi citizens. Cundall are proud to be leading the design of 8 multipurpose event and function spaces, known as black boxes, with different typologies across the Kingdom.

The primary driver has been to provide world-class entertainment facilities to the people of KSA, who have not experienced them before in the local context. The design approach is about delivering experiences that are groundbreaking, while creating something that is responding directly to the demand in an authentic and appropriate way. A modular and site-specific approach has been adopted, bringing about huge synergies in all elements of design and ultimately helping to achieve environmental goals.

Client Saudi Entertainment Ventures (SEVEN)

Sector Leisure and Entertainment

Architect Cundall

Imagery © Saudi Entertainment Ventures (SEVEN)



Museum of Islamic Art Renovation

Location

This iconic building is home to some of Qatar's favourite pieces of art.

With its emblematic architecture, central location in the heart of Doha's Corniche, and an exceptional collection, the Museum of Islamic Art in Doha is a true symbol of the city. The monumentality of the atrium and quality of the museum's interior spaces remain engraved in the memories of all visitors.

Our team was appointed to provide the site survey, building and IT services of the museum design. The project involved reviewing and advising on the effects of existing building services and IT system of the proposed alterations. The renovation work included the galleries and interior spaces of the MIAQ building, which consists of two stories for permanent exhibition halls, two temporary exhibition halls, a private exhibition hall, a lecture hall and a gift shop.



Client Wilmotte & Associés SAS d'Architecture

Sector Leisure and Entertainment

Architect Wilmotte & Associés SAS d'Architecture

Greater Muscat Structure Plan

Muscat, Oman

Reimagining the strategic vision of Muscat's urban fabric.

The aim of the project is to provide a more focused spatial development strategy for the 1360km² metropolitan region. The project will underpin the Oman National Spatial Strategy and its vision, focusing on strengthening and promoting sustainable design in the urban environment.

Cundall's team will ensure Greater Muscat benefits from an efficient and resilient city-wide utility infrastructure network, with an emphasis on renewable technology and water lifecycle. We will also develop the overarching sustainable and smart city framework and analyse flood risk and coastal change while safeguarding the natural environment.



Client Ministry of Housing and Urban Planning

Sector Masterplanning and Urban Design

Architect Broadway Malyan

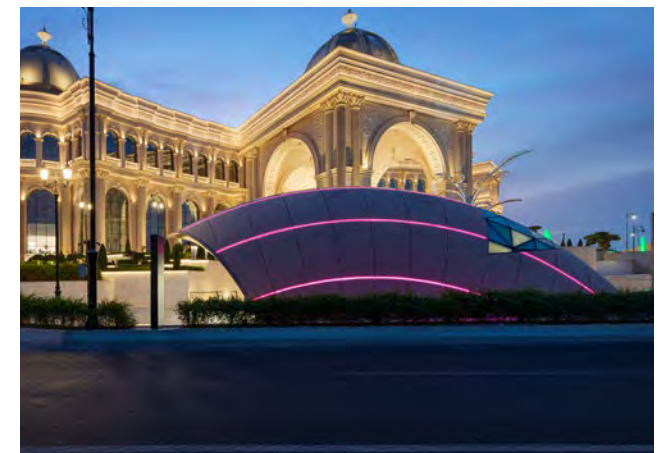
Imagery © Broadway Malyan

Lusail Light Rail Transit (LRT)

Lusail, Qatar

The Lusail Light Rail Transit (LRT) system provides a sustainable, state-of-the-art transportation network, serving the nineteen districts of New Lusail City.

The LRT connects the city to the new Doha Metro System, providing modern transportation links to Doha and Hamad International Airport. The LRT has four main operating lines with a total of 33km trainways, transporting 50,000 passengers a day. The network has 28 stations across 3 lines, 15 at-grade stations and a 155,000m² depot facility. Future plans include extending the network around Lusail City and beyond.



Client Qatari Diar Vinci Construction (QDVC)

Sector Infrastructure

Architect Lamela / Cundall

Imagery © Hammad Iqbal

EY Dubai

Dubai, United Arab Emirates

EY's new home in Dubai International Financial Centre's (DIFC) new cutting edge, sustainability-focused building.

This unique office space spans four floors covering 10,000m². It has been designed to achieve LEED Gold Certification with many health and wellbeing components. The design incorporates WELL design principals such as fresh air, comfort of acoustics, lighting design systems that enhance happiness and productivity. The building's unique shape is constructed from a steel structure, that presented some site constraints. These were resolved through major coordination with the owner to overcome interior design challenges.

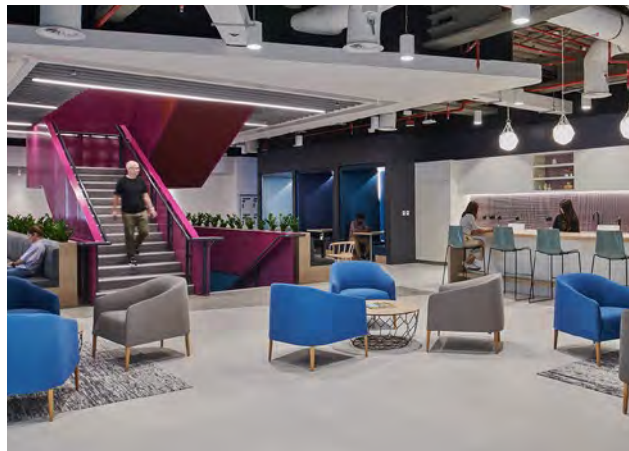
The office has been designed to provide a comfortable open working environment. BIM was used for optimal coordination between all disciplines and stakeholders as the building was under construction and fit-out design was being undertaken simultaneously. The team worked closely with the building owner to meet the authority requirements and achieve the design approvals on time.

Client Ernst & Young Group

Sector Workplace

Architect Allen Architecture Interiors Design

Imagery © altayerstocks



Pulse of Light

Riyadh, The Kingdom of Saudi Arabia

A large-scale art and light installation at the iconic Kingdom Centre Tower in Riyadh.

The art installation in Kingdom Centre Tower was part of the city-wide artwork 'Pulse of Light,' created for Noor Riyadh Festival 2022 by French artist Yann Kersalé. The show combined light, video and laser to create a dynamic and enveloping luminous flux across the city. The performance began at the hearth of Kingdom Tower, with a video projecting onto an invisible net in the void of the building, referred to as a 'necklace.' This gives the impression of a giant floating hologram.

Client Noor Riyadh

Sector Leisure and Entertainment

Architect Artist: Yann Kersalé / Production: HAVAS Events, ComeAndDo

Imagery © Pulse of Light



PwC Middle East

Dubai, United Arab Emirates

The first commercial office in the MENA region to be certified WELL Platinum.

Cundall was appointed for multi-discipline engineering services for PwC's 16,000m² office in Emaar Square, Dubai. The project is the largest and most adventurous of its kind across the region as well as for the brand. Our team provided design and construction supervision for the fit-out of the office's seven floors, client and executive areas and training space under the theme "office of the future".

The overarching design allows each floor to feature subtle references to different pivotal locations around the world. Key features of the office include a wellness suite, cafeteria, experience centre and theatre. PwC proposed to utilise the offices to provide a work and training environment, therefore the ground floor holds the PwC Academy space, a flexible meeting and training space. The top floor features a unique experience centre and events space.

Client PwC

Sector Global Corporate Real Estate

Architect SAY Studio

Imagery © David Churchill / Say Studio



Leyja

Gulf of Aqaba, The Kingdom of Saudi Arabia, Middle East

A first-of-its-kind luxury eco-tourism resort.

Located in NEOM on the breathtaking Gulf of Aqaba, Leyja's three hotels have been designed to complement the surrounding nature, operate sustainably, and provide distinct experiences.

Leyja builds on NEOM's ongoing commitment to becoming a multi-faceted destination and supports the Kingdom's efforts to build a strong tourism industry under Saudi Vision 2030. Aligned with NEOM's strategy to designate the majority of its land across its destinations and cities as a nature reserve, 95% of Leyja will be preserved for nature and will combine innovative, ecological design and construction techniques to ensure the development seamlessly blends into the landscape.



Client NEOM

Sector Hotels and Hospitality

Architect Killa Design

Imagery © NEOM

Disney: The Castle

Riyadh, The Kingdom of Saudi Arabia, Middle East

The family festival where the music comes alive!

Disney: The Castle - a musical experience that brings you closer than ever to the iconic music of Disney's beloved animated worlds. At this magical family festival, celebrate music from Disney's most popular animated films through captivating performances in immersive musical worlds and exhilarating concerts performed live on stage in front of the towering Disney Castle!

Our structural engineers prepared the basis of design which was issued to all suppliers working on the project. The designs were then independently reviewed for The Castle, The Lion King and Frozen pavilions, and structural calculations were developed for the Encanto pavilion. Our team in Riyadh undertook a review of all the designs and provided local sign off.

Client Balich Wonder Studio, Disney Concerts

Sector Leisure and Entertainment

Architect Balich Wonder Studio, Disney Concerts

Imagery © 2024 Disney



Doha Palace

Doha, Qatar

A luxury interiors for their future private residence.

Cundall was appointed by a private client for a new palace in Al Gharrafa, with an approximate area of 20,000m, a highend luxury interiors. Health and wellness is one of the key focal points for the client.



Client Confidential

Sector Residential

Architect Carolina Darocas

Imagery © Carolina Darocas

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