

BRISBANE OLYMPICS AQUATIC FACILITIES

Brisbane's new aquatic centre will be a centrepiece of the Olympic Games, hosting swimming, artistic swimming, diving and water polo on the world stage.

However, its impact goes beyond competition. It must be designed as a lasting asset for the community as it becomes the new home of Australia's 4 national aquatic bodies and supports learn-to-swim programs, school carnivals and international events like the World Aquatic Championships.

Balancing elite performance and everyday participation, the facility must deliver on flexibility, long-term resilience and environmental responsibility. This means a focus on community, electrified systems, smart water management and low-energy solutions that keep operational costs down while reducing emissions over time.

NDY, and our colleagues in the Tetra Tech High Performance Buildings Group, have delivered hundreds of aquatic centres across Australia and around the world. From national competition venues to regional community pools, we bring technical expertise, multidisciplinary capability and a focus on sustainability to every project, ensuring aquatic centres perform just as well on day one as they do decades into the future.

OUR CAPABILITIES

Our aquatic specialists bring technical expertise and global experience to create safe, high-performance facilities that meet Olympic standards while fostering sustainable, long-term community use.



Aquatic engineering

We design water systems that are safe, efficient, and tailored to each facility's needs.

SAFETY

Critical design measures that reduce the risk of drowning include compliant fencing, carefully designed grates and suction points, clear sightlines for lifeguards, CCTV coverage, and adherence to all relevant codes and standards.

FILTRATION

The best filtration system depends on the pool's use, available space, water source, budget, and sustainability goals. We evaluate all factors to select the most effective, low-maintenance solution.

WATER TREATMENT

Disinfection is essential to water quality. We design systems using chlorine or bromine, often supported by ultraviolet or ozone sterilisation for added protection. pH control is carefully managed to optimise disinfection and swimmer comfort.

INDOOR AIR QUALITY

Ventilation and humidity control systems improve air quality, reduce chemical odours, and minimise condensation and corrosion—protecting both occupants and infrastructure.

To find out more about NDY go to ndy.com or follow us on LinkedIn.



Hydraulics

Our hydraulic engineers design efficient systems for water supply, drainage, and pool operation. From backwash systems to rainwater harvesting, we consider water use, energy demand, and ease of maintenance.



Lighting design

We create lighting systems that prioritise both safety and performance.

Lighting must ensure lifeguards have clear visibility from all positions around the pool.

We prevent veiling reflections—glare or reflections that obscure the pool floor—by carefully coordinating lighting angles, placement, and natural light sources.

A TEAM WHO UNDERSTANDS PEOPLE

We're engineers, designers and consultants. But above all, we're people.

We design aquatic centres with people in mind - from elite athletes and officials to lifeguards, maintenance teams, school kids and spectators. We think about how people will experience these spaces today and how their needs might evolve.

This means getting into the details. Can lifeguards see every corner of the pool? Is the space intuitive for first-time visitors? Can someone in a wheelchair easily move from the changerooms to the grandstand? Do the air and water feel clean?

This approach may not sound ground breaking but you'd be surprised by how many others don't start with the people. Know that we do.

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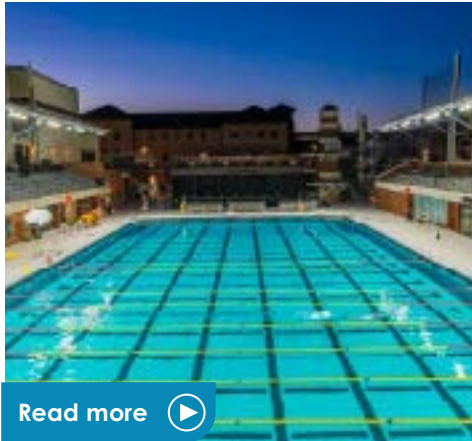


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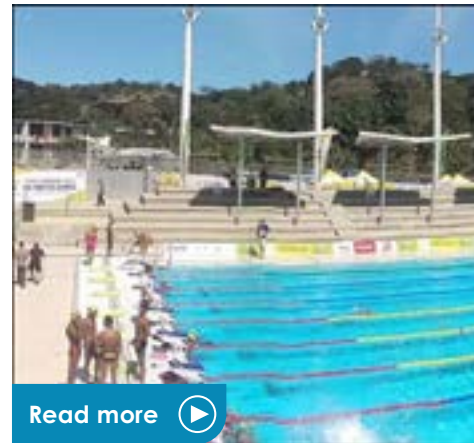
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