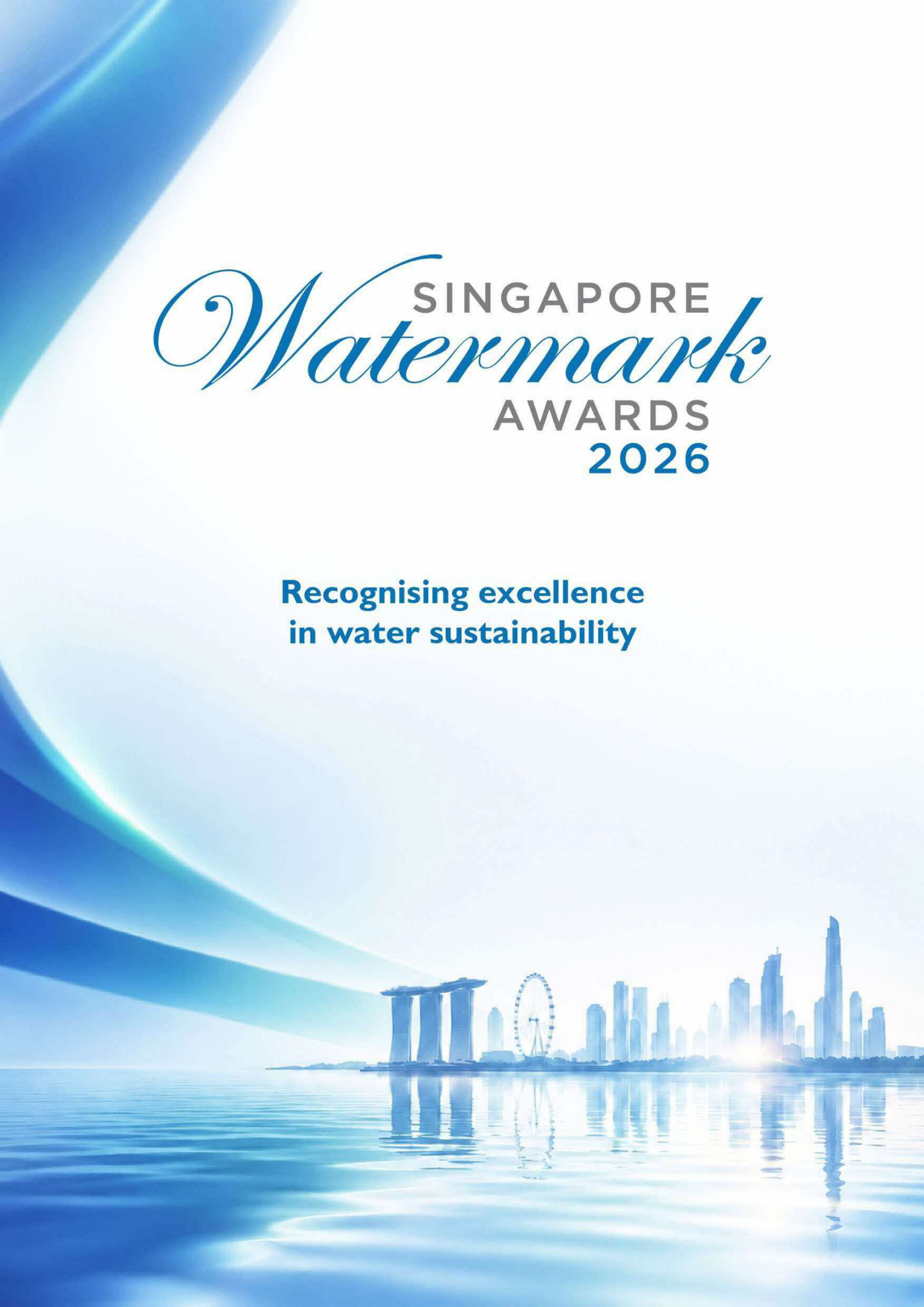


The background of the poster features a stylized, futuristic cityscape of Singapore, including the Marina Bay Sands and the Singapore Flyer, reflected in the water. A large, flowing blue ribbon-like shape curves across the left side of the image. The text is centered in the upper half.

SINGAPORE *Watermark* AWARDS 2026

**Recognising excellence
in water sustainability**

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Towards a Water-Sustainable Singapore

As a city-state with limited natural water resources, Singapore has always had to plan carefully to ensure a reliable and resilient water supply. Against the backdrop of climate change, economic and population growth, Singapore's water demand is projected to almost double by 2065. Much of this growth will come from the non-domestic sector, which is expected to account for two-thirds of future water demand. As such, the role of businesses in water conservation and sustainable management is becoming increasingly important. Meeting this challenge requires organisations to combine visionary leadership and innovation with collective action across government, industry and communities.

The Singapore Watermark Awards (SWMA) recognises organisations that have demonstrated outstanding leadership in advancing Singapore's water sustainability efforts. Their achievements in water conservation, stewardship and advocacy set benchmarks for others, encouraging more organisations to embrace sustainable water practices and contribute to Singapore's long-term water resilience.





Singapore Watermark Awards (SWMA)

The SWMA is Singapore's premier accolade recognising leading organisations that demonstrate a strong commitment to effective water management, sustained efforts in water efficiency, innovative water conservation practices, and active community engagement that inspires action and builds support for the water cause.



Water Efficiency Awards (WEA)

The WEA recognises the top 10th percentile of water-efficient performers in their respective sectors. They are establishments with the lowest Water Efficiency Index (WEI) or industrial plants with the highest water recycling rates.



Water Efficiency Awards (Projects) (WEAP)

The WEAP recognises innovative projects that have demonstrated remarkable improvements in water efficiency and project leadership.

**Singapore
Watermark
Awards
2026
Winners**

Amazon Web Services Singapore



“

At AWS Singapore, through training, education, and collaboration, we empower our people and partners to go beyond water efficiency in operation, into community and conservation projects.

”

Nikhil Vajandar

Amazon Web Services

Head of Power & Water

Asia Pacific Japan & China

Amazon Web Services (AWS) Singapore offers secure, reliable, scalable, and cost-effective on-demand cloud computing services.

AWS Singapore continues to demonstrate a strong commitment to water conservation and sustainability in its data centre operations, anchored by AWS's goal of being Water Positive by 2030, through reducing, reusing and replenishing water across their operations. Through its sustained excellence in water efficiency, innovation, and continuous advocacy and community engagement, AWS Singapore has been conferred with the Singapore Watermark Awards in both 2024 and 2026.

Leading in Water Efficiency

AWS Singapore's Water Usage Effectiveness (WUE) has improved year-on-year, achieving a WUE well below PUB's benchmark of 2.0 L/kWh in 2024. They continue to push the boundaries of data centre design and operations to reduce the amount of water required for cooling, while exploring technologies to recycle water internally wherever possible. Beyond their own operations, AWS Singapore actively shares knowledge with industry partners to drive sector-wide improvements.

Innovating for Water Savings

AWS Singapore piloted and scaled an on-site electrooxidation (EO) water treatment technology in partnership with a local startup, aimed at improving the quality of cooling tower circulating water to enable higher cycles of concentration and further reducing water consumption. AWS Singapore continues to open its sites to innovate and pilot promising water efficiency technologies.

Building a Culture of Water Stewardship

AWS Singapore is committed to promoting responsible water stewardship across all levels of engagement, from Singapore World Water Day celebrations and volunteer waterway cleanups, to partnering with educational institutions on innovation challenges that cultivate a water conservation mindset among students.

At a regional level, AWS Singapore champions the use of fit-for-purpose reclaimed water, sharing Singapore's NEWater success story as a model for sustainable water reuse. AWS Singapore is also the Founding Sponsor of the SG Water Saver Programme, which aims to improve water efficiency across 1,000 households and achieve water savings of 1,000 m³ per month. Through these efforts, AWS Singapore demonstrates its commitment to making a positive water impact in the community.



AWS Singapore employees promoting sustainable water practices at Singapore World Water Day in March 2025



AWS Singapore volunteers at waterways cleanup



AWS Singapore is also a recipient of the Water Efficiency Awards



AWS Singapore is also a recipient of the Water Efficiency Awards (Projects)

Institute of Technical Education



“

What gets measured gets managed, the water we save today helps build greater resource resilience for tomorrow.”

”

Edmund Tan

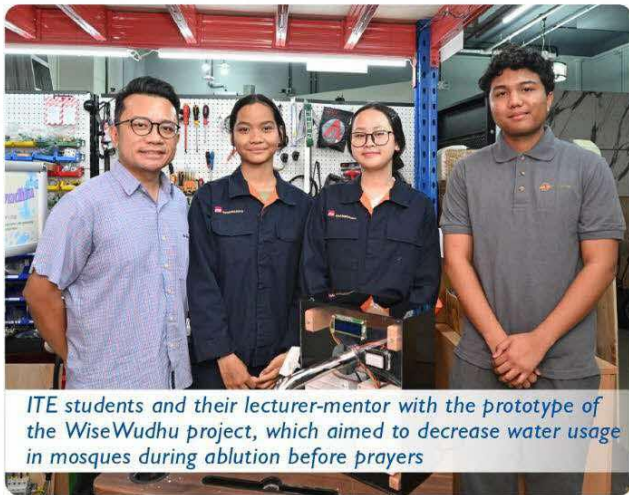
Institute of Technical Education
Deputy Director,
Sustainability & Estates Support

Institute of Technical Education (ITE) is a principal provider of career and technical education in Singapore, and a key developer of national skills certification and standards, skilling Singapore for the future economy.

ITE's attainment of the Singapore Watermark Award 2026 reflects its continuous commitment to water sustainability through advocacy, operational excellence, innovation and community partnership. Guided by its 4Cs Sustainability Framework (Campus, Curriculum, Culture and Collaboration), ITE has embedded responsible water stewardship across its campuses, operations and student learning.

Nurturing Water Ambassadors

ITE's sustainability endeavours go beyond creating awareness within its campuses. Students and staff have supported many external outreach programmes, including Singapore World Water Day, Project Blue WaVe Kayak N Klean, NEWater outreach, and the Flush Saver Cistern Bag project. Through these platforms, students serve as water ambassadors and sustainability guides, applying classroom knowledge to promote water-saving practices in the larger community.



ITE students and their lecturer-mentor with the prototype of the WiseWudhu project, which aimed to decrease water usage in mosques during ablution before prayers



In collaboration with PUB, ITE students installed Flush Saver Cistern Bags in several households across Choa Chu Kang, helping residents reduce water usage with every flush

Optimising Water Use Across Operations

Operationally, ITE has strengthened its water efficiency through monitoring of water consumption, abnormal-flow analysis, leak detection and prompt rectification of faulty sensors, valves and underground pipes. Non-essential irrigation has also been reduced through rain sensors, plant-health checks, automated irrigation timers and revised watering schedules.

ITE has further advanced resource circularity by reusing rainwater and air-handling unit condensate for landscape irrigation. Cooling tower operations have also been further optimised through higher cycles of concentration and water recirculation before discharge.

Micron Technology



“

By working together across industry, government and the community, we can help build a more sustainable and water-resilient future.

”

Joshua Lee

Micron Technology

Corporate Vice President and
Singapore Country Manager

Micron is a semiconductor manufacturer offering a range of high-performance memory and storage solutions.

Micron demonstrates sustained leadership in industrial water stewardship through a circular water strategy, meeting approximately 98% of its total water demand with NEWater. Water sustainability is embedded in its facility design and daily operations, supported by continuous improvement through automation, process optimisation and technological innovation.

Innovating to Reduce Water Use

A flagship initiative is Micron's centralised greenhouse gas abatement system, the first of its kind in Singapore. Semiconductor manufacturing has traditionally relied on water-intensive point-of-use abatement systems to remove hazardous pollutants and greenhouse gases from process exhaust. Micron redesigned its exhaust gas treatment infrastructure and operating model, applying a reduction-at-source strategy across the abatement ecosystem. By replacing numerous tool-level wet scrubbers with a consolidated abatement architecture, the system achieved a 75% reduction in water usage compared with the previous design, while maintaining emissions performance and regulatory compliance.



A Circular Approach to Water Use

Micron has also implemented internal water reclaim and advanced purification systems to recover, treat and reuse water streams, reducing intake dependency while maintaining stringent final effluent quality standards. Where localised wet abatement remains necessary, Micron has installed a local scrubber reclaim system that treats scrubber wastewater and recovers the effluent for reuse. The treatment system is complemented by AI-based optimisation that recommends operating settings to balance water recovery, energy use, chemical consumption, membrane health and asset reliability.

Engaging the Community

Beyond optimising its own operations, Micron contributes to broader water sustainability efforts by engaging employees, students and the public through Singapore World Water Day roadshows, student learning visits, eco walks at Jurong Lake led by trained docents, and digital advocacy. These efforts help strengthen a shared commitment to water sustainability.



ITE students visited Micron for Singapore World Water Day to learn about water efficiency, reuse and sustainable manufacturing practices



Micron is also a recipient of the Water Efficiency Awards (Projects)

National University Health System



“

To us, water stewardship in healthcare means making every drop count — conserving, recovering and reusing water wherever possible, while continuing to provide safe, high-quality patient care. By doing so, we heal both our patients and the planet, while helping to safeguard Singapore’s water future for generations to come.”

”

Ng Kian Swan

National University Health System

Chief Operating Officer

Group Facilities Management, Group Security &

Group Emergency Planning

Chair, Energy & Water Taskforce

Ng Teng Fong General Hospital and Jurong Community Hospital

Chief Sustainability Officer

National University Health System (NUHS) is Singapore's leading academic health system, integrating clinical care, education, and research in hospitals, polyclinics, and specialty centres across the western and central regions of Singapore.

Water Efficiency Performance

NUHS has achieved sustained year-on-year water efficiency improvements, with efficiency gains of 2.4% in 2022, 5.1% in 2023, and 7.7% in 2024, each measured against the preceding year. NUHS has also achieved a 19% improvement in its Water Efficiency Index against its own GreenGov.SG baseline. In 2024, water savings reached approximately 246,000 m³ annually. This is equivalent to the annual water consumption of approximately 1,600 four-room HDB households, based on an assumed average household water consumption of about 150 m³ per year.

Pioneering Water-Saving Innovations

NUHS has implemented Singapore's first waterless intensive care unit model across 44 rooms at Ng Teng Fong General Hospital (NTFGH), saving 1330 m³ annually.

Its first-in-Singapore dialysis reverse osmosis reject water recovery initiative repurposes approximately 25 m³ daily for irrigation, while optimisation of endoscope reprocessing cycles reduced the number of reprocessing cycles from 484 to 199 per month, saving approximately 14.25 m³ annually.

Smart metering and IoT-enabled dashboards further support real-time monitoring, anomaly detection and targeted interventions across all hospitals.



Circular Economy Approach to Water Use

NUHS maximises the use of NEWater for non-potable purposes, including toilet flushing and cooling towers. Rainwater harvesting at NTFGH and Jurong Community Hospital recovered 15,503 m³ in CY2023 and 13,540 m³ in CY2024, while air handling unit condensate recovery supports irrigation and cooling tower operations. Together, these measures reduce reliance on potable water across operations.

Championing Water Stewardship

NUHS extends its commitment to water stewardship beyond its operations through community engagement, industry knowledge sharing and staff development.

It organised the inaugural Healthcare Sustainability Symposium in April 2024 and a public forum engaging more than 300 community members in June 2025, alongside their participation in Singapore World Water Day 2026.

NUHS has also hosted around 400 overseas healthcare delegations from 18 countries and contributed to international platforms including the 2025 Institute for Healthcare Improvement Conference and the 2024 Nordic Conference on Sustainable Healthcare.

Internally, approximately 200 multidisciplinary staff have been trained through NUHS's Certificate in Healthcare Sustainability programme.



Water Efficiency Awards 2026 Winners

Water Efficiency Awards 2026 Winners

Biomedical Manufacturing

GSK Tuas

GSK is a global biopharma company uniting science, technology and talent to get ahead of disease. Opened in 2009, GSK Tuas facility is a purpose-built manufacturing facility for global supply of active ingredients for paediatric vaccines that has evolved into a new product introduction site for vaccines.

At the Tuas vaccines facility, GSK has conserved approximately 74,000 m³ of water each year, equivalent to nearly 29 Olympic-sized swimming pools. These water savings are supported by a combination of wastewater treatment, recovery and reuse:

- Wastewater recovery skid, treating plant wastewater and cooling tower blowdown water through a three-stage process (multimedia filtration, ultrafiltration and reverse osmosis) for reuse in cooling towers
- Continuous recovery of ultrafiltration rinse water and reverse osmosis reject water as cooling tower make-up
- Recovery of air conditioning and mechanical ventilation condensate for reuse in cooling towers



A GSK utility technician checking the reverse osmosis pressure for the wastewater recovery system

Water Efficiency Awards 2026 Winners

Biomedical Manufacturing

JMS Singapore Pte Ltd

JMS Singapore Pte Ltd (JMS) is a leading manufacturer specialising in high-quality disposable medical devices, including blood collection bags that support blood banks globally while adhering to stringent quality standards.

As water is an essential input in its manufacturing operations, JMS is committed to environmental stewardship and the 3Rs of water conservation: Reduce, Reuse and Recycle. To manage significant water usage while maintaining stringent production quality, JMS implemented a closed-loop water recycling system for process cooling.

Through a structured process of water collection, multi-stage cooling and filtration, the system enables water to be efficiently recycled for continuous reuse within the facility. This initiative has achieved:

- Annual water savings of approximately 50,000 m³, representing over 40% of the facility's total water consumption
- Reduced operational costs through the recycling and reuse of water for process cooling

These ongoing efforts reinforce JMS's long-term commitment to sustainable manufacturing and water conservation in Singapore.



JMS records water usage to identify opportunities for efficiency and reduction

Water Efficiency Awards 2026 Winners

Biomedical Manufacturing

Pfizer Asia Manufacturing Pte Ltd

Pfizer Asia Manufacturing Pte Ltd (Pfizer) is a pharmaceutical manufacturing facility that produces small molecule Active Pharmaceutical Ingredients (APIs) for Pfizer's oncology, pain and antibiotic medicines supplied to global markets.

Pfizer demonstrates its commitment to environmental sustainability through active energy and water conservation efforts across its sites. Key water efficiency projects include:

- Cooling tower side-stream filtration upgrade, eliminating backwash and reducing cooling tower blowdown
- Continuous De-ionisation/Reverse Osmosis reject water recovery, recovering and reusing relatively clean water streams that would otherwise be discharged to the public sewer
- Integrated Manufacturing Excellence (IMEx) daily water monitoring programme, enabling faster detection and repair of leaks to minimise water loss
- Steam trap survey and rectification, improving condensate recovery and reducing water usage



A Pfizer engineer monitoring water consumption

Water Efficiency Awards 2026 Winners

Commercial Laundry

Hotel Laundry Pte Ltd

Hotel Laundry provides laundry services for the Worldwide Hotels Chain, which comprises 41 hotels.

Hotel Laundry adopts various water recycling and water management measures across its operations to optimise water use. These include:

- Using a Blue Ocean Filter water recycling system to reduce NEWater consumption in its laundry operations. Filtered recycled water is used in its Continuous Batch Washer operations, including tunnel washers and washer extractors, reducing overall water consumption
- Operating from a certified Water Efficient Building to support water-efficient operations
- Conducting regular meter readings to monitor water usage
- Preparing monthly reports to analyse water consumption patterns and identify opportunities for further water conservation
- Limiting the use of high-pressure jets for cleaning to reduce water consumption while maintaining cleanliness standards
- Implementing stringent leak and defect monitoring to minimise water loss



The Hotel Laundry team conducting daily monitoring of the Blue Ocean Machine

Water Efficiency Awards 2026 Winners

Commercial Laundry

Orchid Laundry

Orchid Laundry provides high-quality laundry and dry-cleaning services to a diverse clientele across industries including travel and hospitality, food and beverage (F&B), financial services, petrochemicals, healthcare and wellness, supported by advanced equipment and continuous operational improvement.

Building on decades of experience, Orchid Laundry has progressively strengthened its commitment to water conservation, bringing together people, processes and technology to improve water efficiency. Through employee engagement and investment in efficient systems, it continues to optimise water use across its operations. Key milestones include:

- Wastewater collection, filtration and reuse initiatives, marking the start of its efforts to conserve water and improve water efficiency
- Participation in PUB's Water Efficiency Management Practices in 2019, providing a structured framework to monitor, analyse and optimise water consumption across its facility



Orchid Laundry's key stakeholders at a sustainability meeting

Water Efficiency Awards 2026 Winners

Data Centres

Amazon Web Services Singapore

Amazon Web Services (AWS) Singapore offers secure, reliable, scalable, and cost-effective on-demand cloud computing services.

AWS Singapore achieves industry-leading water efficiency across its Singapore data centres, with Water Usage Effectiveness improving year-on-year. This performance is underpinned by a combination of technology, operational controls and staff capabilities:

- PUB Water Efficient Buildings across all AWS data centre sites, reflecting its commitment to water-efficient operations
- Automated chemical dosing systems to prevent over-dosing and maintain optimal water chemistry for higher cycles of concentration
- Electrooxidation water treatment technology to increase cycles of concentration and reduce cooling tower blowdown, improving water efficiency
- Rainwater harvesting for cooling tower make-up water to reduce NEWater and potable water consumption
- Temperature optimisation to reduce heat rejection and water consumption by cooling towers
- PUB-certified water efficiency managers at each data centre, supported by water-related training for all operations staff to support effective water management



AWS Singapore employees are trained to operate data centres at optimum water and energy efficiency

Water Efficiency Awards 2026 Winners

Data Centres

Google Asia Pacific Pte Ltd

Google Asia Pacific Pte Ltd (Google) operates data centres in Singapore, delivering fast and reliable digital services while remaining at the forefront of energy and water efficiency innovation.

Google adopts a comprehensive approach to water sustainability at its Singapore data centres, integrating water-efficient design, proactive water management and a strong culture of water conservation across its operations. This approach is supported by trained Water Efficiency Managers who oversee daily water consumption and identify savings opportunities, driving a range of measures that include water-efficient equipment and maintenance practices, water recycling and recovery, real-time monitoring and staff engagement programmes.

Google's two data centres in Singapore have received the Water Efficiency Awards. Key water efficiency initiatives implemented across these premises include:

- Custom-engineered cooling systems built to maximise water efficiency
- 24/7 water management system for real-time usage monitoring and optimisation of water use, complemented by valve interlocking system to prevent water wastage
- Underwater drones for water tank inspections, eliminating the need to drain tanks during maintenance
- Recovery and reuse of fire pump test discharge, avoiding unnecessary discharge into the public sewerage system
- A dedicated Water Efficiency Committee that regularly reviews water performance and promotes water efficiency across the organisation
- Employee-driven initiatives and events to educate staff and advocate for water conservation



Google's custom-engineered cooling systems, built to maximise water efficiency



Facility operations staff performing routine maintenance on cooling tower infrastructure to optimise water efficiency

One of the premises also recovers and reuses air handling unit condensate as cooling tower make-up water, and recaptures sprinkler test water for return to the water storage tank.

Water Efficiency Awards 2026 Winners

Data Centres

Nxera DCW Pte Ltd

Nxera, Singtel Group's regional data centre arm, develops, owns and operates carrier-neutral, multi-tenanted and AI-ready data centres, providing colocation services for enterprises and hyperscalers.

Nxera DCW adopts a holistic engineering strategy that embeds water management into its data centre operations through five pillars:

- **Reduce:** Improve PUE to lower cooling demand, reducing cooling tower evaporation and enhancing WUE
- **Maximise:** Achieve Water Efficient Building certification, install 3-tick water fittings under Singapore's Mandatory Water Efficiency Labelling Scheme (MWELS), and operate a chemical-free cooling tower water treatment system which achieved up to 20 cycles of concentration
- **Recover:** Recover and reuse cooling tower basin water during maintenance to reduce reliance on PUB's water supply
- **Monitor:** Continuously track WUE and promptly rectify leakages through a structured incident reporting system
- **Diversify:** Harvest rainwater for landscape irrigation, reducing reliance on PUB's water supply

Together, these measures reflect Nxera DCW's commitment to responsible water management and operational resilience.



Routine site inspections are conducted to check for signs of water leakage

Water Efficiency Awards 2026 Winners

Electronics

Seagate Technology

Seagate Technology is a leading innovator in mass-capacity data storage, enabling organisations to harness one of their most valuable assets: data. With over 45 years of technology leadership, Seagate delivered advanced storage platforms to consumer, cloud, enterprise, and edge markets throughout the world.

Seagate Recording Media Operations (RMO) Singapore has adopted a comprehensive water stewardship strategy focused on reducing freshwater consumption, maximising wastewater recovery, and improving water-use efficiency across its manufacturing operations.

Woodlands 2 Facility

Seagate implemented a two-phase water recovery programme at its Woodlands 2 (W2) facility, enabling the recycling and reuse of additional 626,705 m³ of water per year. The two-phase programme included the following:

- Segregation and recovery of rinse-water using activated carbon filtration
- Advanced wastewater recycling system comprising high-flux ultrafiltration with patented slime-peeling chemical dosing and high-rejection reverse osmosis technology

Through the two-phase programme and other existing water efficiency measures, the W2 facility achieved an overall recycling rate of 46% in 2024, recovering and reusing a total of 1.3 million m³ of water over the year - equivalent to approximately 520 Olympic-sized swimming pools. These sustained results demonstrate Seagate's commitment to operational excellence, water stewardship, and supporting Singapore's long-term water sustainability goals.



High Rejection Reverse Osmosis System

Water Efficiency Awards 2026 Winners

Electronics

Seagate Technology

Woodlands 3 Facility

Seagate's Woodlands 3 (W3) facility strengthens its water sustainability performance by optimising existing water reuse systems and manufacturing processes. Its approach combines the following measures to improve water recovery and overall water-use efficiency:

- Segregation and recovery of reusable water streams
- Enhanced water quality monitoring using state-of-the-art instrumentation
- Effective management of water reclamation processes through continuous online monitoring and periodic performance review

Through these measures and by maintaining strong plant wide recycling system incorporating an advanced automated backwash filtration and activated carbon filtration system, the W3 facility achieved an overall recycling rate of about 42% in 2024, recovering and reusing a total of 1.2 million m³ of water over the year - equivalent to approximately 480 Olympic-sized swimming pools.

The water savings achieved reflect the effectiveness of ongoing efforts, continuous enhancement of water management practices, process innovations, and operational improvements aimed at maximising water utilisation efficiency.

These achievements reflect W3's commitment to responsible water stewardship and continuous improvement, supporting both corporate sustainability objectives and Singapore's vision for sustainable water management and a circular water economy.



Activated Carbon Filtration System

Water Efficiency Awards 2026 Winners

Wafer Fabrication

RF360 Singapore Pte Ltd

RF360 Singapore Pte Ltd, a subsidiary of Qualcomm Technologies Inc, develops and manufactures innovative Radio Frequency Front End (RFFE) filtering solutions for mobile devices and fast-growing business segments, such as IoT, drones, robotics, automotive application and more.

RF360 Singapore transformed its water management through the ECO Fab Water Stewardship Programme, establishing a circular water management model across its manufacturing facilities. Between Year 2022 and Year 2024, the site at 9 Kallang Sector achieved a 46% reduction in water consumption and a 66% improvement in Water Efficiency Index (WEI). These results were driven by a combination of water recycling and operational improvements:

- Scrubber wastewater recycling: A reclaim plant using electrodialysis reversal (EDR) technology achieves 80% water recovery
- Water recovery and reuse: The conventional Electro-deionisation (EDI) system was replaced with a Continuous Electro-deionisation (CEDI) system, recovering reject water that would otherwise have been discharged. Reject water from other deionised water system equipment, such as reverse osmosis (RO), as well as water from production and sampling drains, is also recovered for reuse
- Operational optimisation: Cooling tower and scrubber operations are optimised to improve water efficiency



Water Conservation Through EDI-to-CEDI System Upgrade in DI Water System to Lower Potable Water Demand

Water Efficiency Awards 2026 Winners

Wafer Fabrication

Systems on Silicon Manufacturing Company Pte Ltd

Systems on Silicon Manufacturing Company (SSMC), a joint venture between NXP Semiconductors and TSMC, is one of Singapore's semiconductor wafer fabrication companies manufacturing integrated circuits for automotive, communication, industrial and consumer applications worldwide.

SSMC was the first wafer fabrication company in Singapore to use 100% NEWater in semiconductor manufacturing. Since 2003, SSMC has met 100% of its process water requirements using NEWater, a milestone achieved in collaboration with PUB. Through continued innovation and recycling, SSMC achieved a water recycling rate of 67.53% in 2024, recycling more than 3.97 million m³ of water annually. This amount of water recycled is equivalent to approximately 1,590 Olympic-sized swimming pools. Building on its long-standing commitment to water sustainability, SSMC continues to enhance water recovery and strengthen water management across its operations:

- Optimisation of recipe for wet bench and reclaim drain routing at the Annex 10 Building in 2023, achieving water savings of approximately 18,680 m³/year
- Doubled Local Scrubber Reclaim capacity at the Annex 10 Building in 2024, achieving water savings of approximately 28,020 m³/year
- Redesigned drain connections for 11 local scrubbers at the Main Fab in 2023, optimising reclaim operations to recover approximately 39,230 m³/year

Together, these three improvement projects deliver annual water savings of approximately 85,930 m³. Looking ahead, SSMC will harness AI, data insights, and engineering expertise to unlock further innovations in sustainable water recovery.

SSMC's water stewardship is supported by a long-term management framework, including its Eco-Vision water recycling programme since 2001 and SS 577 Water Efficiency Management System certification since 2013. It was also among the first organisations in Singapore to achieve ISO 46001 Water Efficiency Management System certification. The company is also a proud two-time Singapore Watermark Award winner, having received the prestigious recognition in 2013 and 2024 for excellence in water conservation and management.



Through continuous innovation, SSMC enhances water recovery and recycling, supporting long-term water sustainability

Water Efficiency Awards 2026 Winners

Hotels

Andaz Singapore

Andaz Singapore is located between the enclaves of Kampong Glam, Little India and Bras Basah Bugis, celebrating Singapore's heritage through modern design and local spirit.

Andaz Singapore has implemented a range of water efficiency measures to reduce potable water consumption and improve operational efficiency. These initiatives have supported Andaz Singapore in sustaining its water consumption and performants. These measures include:

- Water-efficient fittings with the highest Water Efficiency Labelling Scheme (WELS) rating have been installed across guestrooms and renovated public washrooms
- Towel and bed linen reuse encouraged through in-room conservation cards, with linen and towel changes carried out every three nights by default unless requested otherwise
- Routine inspection and prompt rectification of leaks across guestrooms, public areas, kitchens and plant rooms



Thoughtful water-saving features are integrated into Andaz Singapore's guest spaces

Water Efficiency Awards 2026 Winners

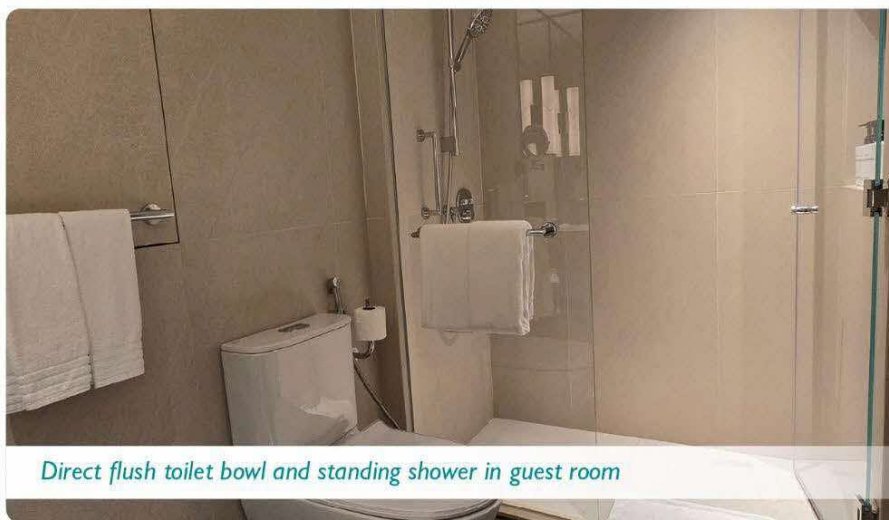
Hotels

Conrad Singapore Orchard

At the heart of Singapore's Orchard district, Conrad Singapore Orchard is set across twelve cascading floors by visionary architect John Portman, blending nature-inspired interiors with residential-style guestrooms, distinctive dining experiences and thoughtfully curated spaces.

As part of its ongoing efforts to reduce water consumption, Conrad Singapore Orchard has introduced changes to its guestroom facilities:

- Reducing the number of guestrooms with bathtubs from 440 to 55, helping to minimise water consumption associated with bathtub use and cleaning
- Replacing all WC flush valves with low-capacity flushing cisterns, reducing water consumption per flush from approximately 9 litres to 3.5 litres. This helps to reduce water usage by approximately 61%



Direct flush toilet bowl and standing shower in guest room

Water Efficiency Awards 2026 Winners

Hotels

Crowne Plaza Changi Airport

Located at Terminal 3 of Changi Airport, Crowne Plaza Changi Airport is an urban resort offering seamless connectivity to airport terminals and the iconic Jewel Changi Airport.

Crowne Plaza Changi Airport integrates sustainable practices into its daily operations as part of its commitment to sustainability and responsible resource management. Water conservation is integrated into both hotel operations and the guest experience through:

- Low-flow aerators on basin taps limit flow rates to 2 litres per minute or less, while water-efficient shower fittings further support water conservation across all guestrooms
- Sensor-operated self-closing-delayed-action taps are installed across all restrooms in the hotel's public areas
- IHG Greener Stay programme, rewarding eligible IHG One Rewards members with points when they opt out of housekeeping services, helping to conserve water and energy
- Linen and towel reuse encouraged through in-room conservation cards to support water conservation



Guests are encouraged to reuse towels and linens through in-room conservation cards

Water Efficiency Awards 2026 Winners

Hotels

Village Hotel Bugis

Village Hotel Bugis is a 4-star hotel located in the heart of Singapore's Kampong Glam district, catering to both leisure and business travellers.

Village Hotel Bugis is committed to responsible water stewardship through a combination of operational improvements, staff engagement, and guest awareness initiatives. This commitment is put into practice across its operations through:

- Water conservation messaging incorporated into staff briefings and GSTC sustainability audits to encourage water-saving habits
- Towel and linen reuse programmes promoted by housekeeping teams, supported by in-room tent cards and IPTV sustainability messaging for guests
- Flow control devices attached to hoses, used by its landscape vendor to reduce water flow while maintaining effective irrigation coverage
- Water consumption monitoring through private meters and downstream usage tracking, enabling reported leakages to be promptly rectified
- Water-efficient fittings installed in guestrooms and common areas to support more efficient water use
- Monitoring and maintenance of the cycle of concentration to be within acceptable levels



Water Efficiency Awards 2026 Winners

Offices

The Metropolis

The Metropolis comprises two Green Mark Platinum certified office towers developed by Ho Bee Land, the largest Grade A commercial development outside the Central Business District.

The Metropolis adopts a holistic approach to water sustainability, integrating water conservation into its building infrastructure and day-to-day operations. Certified by PUB as a Water Efficient Building, its approach combines continuous monitoring, alternative water sources and operational improvements:

- Digital water meters integrated with the Building Management System (BMS) for real-time tracking, early detection of anomalies, and timely intervention
- Rainwater harvesting for landscape irrigation, supported by rain sensors that automatically suspend irrigation during wet weather. During prolonged dry periods, NEWater is used to top up the irrigation, reducing reliance on potable water
- Air-conditioning condensate is recovered and reused as cooling tower make-up water, reducing demand for NEWater
- Water-efficient fittings for urinals and water closets, including sensor taps, throughout the development to minimise daily water consumption
- Dry façade cleaning methods and optimised periodic cleaning schedules to reduce unnecessary water use



A member of The Metropolis' facilities team checking the rain sensors

Water Efficiency Awards 2026 Winners

Offices

Vision Exchange

Vision Exchange is a 25-storey commercial development comprising 100 retail units including medical suites and F&B establishments and 640 office units.

Vision Exchange has implemented several initiatives to enhance water efficiency and promote responsible water consumption across the development. These initiatives form part of the buildings' ongoing efforts to reduce potable water usage, improve operational efficiency, and support sustainable building management practices.

The approach focuses on a combination of proactive water consumption monitoring, optimisation of water usage, preventive maintenance, and the utilisation of alternative water sources for suitable building operations. Key initiatives include the following:

- Additional private meters to monitor water usage in key areas such as cooling towers, Chilled Water Make-Up Tank, NEWater systems, toilets and Rainwater Harvesting tank, supporting better visibility of water consumption
- Use NEWater for cooling towers and toilet flushing system, helping to minimise the development's reliance on potable water for these operations
- Reuse rainwater for irrigation, further reducing the need for potable water while supporting the development's landscaping needs

Through these measures, Vision Exchange continues to strengthen its water management practices by reducing unnecessary potable water consumption, improving the efficiency of its water systems, and promoting the sustainable use of available water resources across the development.



NEWater tank supply for toilet flushing system

Water Efficiency Awards

2026 Winners

Retail

313@somerset

Located above Somerset MRT station, 313@somerset is a vibrant retail destination featuring over 140 retail and dining outlets across eight floors.

313@somerset has implemented various water conservation and efficiency initiatives to optimise water consumption across its facilities. Its approach combines water-efficient infrastructure, water reuse and digital monitoring:

- Water-efficient fittings with higher Water Efficiency Labelling Scheme (WELS) ratings installed in washrooms to support more efficient water use
- Use of harvested rainwater for toilet flushing and landscape irrigation
- Private water meters and digital metering solutions installed at key consumption areas, including cooling towers, common area pipes and tenant pipes. Integrated with the Building Management System (BMS), these enable real-time monitoring, early leak detection, consumption trend tracking and performance benchmarking to drive continuous improvement in water efficiency



Rainwater harvesting through a 46-cubic-metre collection tank

Water Efficiency Awards 2026 Winners

Retail

IMM

IMM is Singapore's largest outlet mall, home to over 100 outlet stores.

IMM supports Singapore's water sustainability goals through the adoption of water-efficient technologies and proactive conservation measures. Its approach combines water-efficient fittings, public awareness and real-time monitoring:

- Water-efficient taps with the highest Water Efficiency Labelling Scheme (WELS) rating have been installed across the mall to reduce water consumption while maintaining user comfort
- Water conservation messages displayed in public restrooms to remind and encourage responsible water usage among shoppers, tenants and staff
- Automated Meter Reading (AMR) water meters installed across restroom facilities, enabling real-time monitoring, prompt detection of abnormal usage patterns and timely rectification of leaks or water wastage
- Conducting preventive maintenance inspections of water fittings and sanitary systems to ensure they remain in good working condition



An AMR water meter installed at IMM, supporting data-driven water management and early leak detection

Water Efficiency Awards 2026 Winners

Retail

Northpoint City

Fraser's Property's Northpoint City is the largest mall in Singapore's North Region, with over 400 retail and F&B outlets directly connected to Yishun MRT station and bus interchange.

Northpoint City adopts a proactive approach to sustainable water use through a combination of water-efficient infrastructure, monitoring, alternative water sources and conservation practices. These efforts contributed to an improvement in water efficiency. Water conservation efforts are integrated across the mall's operations through:

- Installation of water-efficient fittings with the highest Water Efficiency Labelling Scheme (WELS) rating across common areas
- Real-time water monitoring and analytics across toilet facilities to enable prompt leak detection
- Use of NEWater for toilet flushing, lowering reliance on the use of potable water
- Choice of tropical and drought-tolerant plant species to reduce irrigation needs
- Display of water conservation signage across the mall's toilets as a form of education and reminder for shoppers on water-saving actions
- Prior to water tank cleaning, stored water is drawn down to the appropriate level through normal consumption, rather than being drained directly



In support of Singapore World Water Day, Northpoint City organises various engagement activities to raise public awareness of water conservation

Water Efficiency Awards 2026 Winners

Retail

Plaza Singapura

Plaza Singapura is one of Singapore's most established retail malls, with over 300 retail, dining and lifestyle brands.

Plaza Singapura has implemented a comprehensive suite of water efficiency initiatives across its operations to monitor and optimise water consumption across its operations like:

- Installation of water-efficient taps with the highest Water Efficiency Labelling Scheme (WELS) ratings throughout the mall to enhance water conservation
- Proactive monthly water consumption monitoring to track usage trends and identify opportunities to further reduce water wastage
- Deployment of automated water meters for meticulous tracking and monitoring of water usage and early detection of irregularities
- An effective fault reporting system supported by strategically placed information within toilets for prompt reporting and rectification of leaks and defects
- Adoption of advanced water treatment technologies for the condenser water system, optimising cooling tower cycles of concentration to better manage water consumption and blowdown



Plaza Singapura's engineering team's proactive monitoring to optimise water usage

Water Efficiency Awards 2026 Winners

Schools

Anderson Primary School

Anderson Primary School adopts a whole-school approach to environmental sustainability, integrating water efficiency and conservation into both student learning and daily school life. Through its enhanced TERRA! Applied Learning Programme (ALP), students are empowered to become resilient Eco-Champions, applying Design Thinking to explore real-world environmental issues, develop innovative water-saving solutions and advocate for sustainable practices.

The school's approach to water conservation includes:

- Water conservation integrated into the Environmental Sustainability ALP, enabling students to understand the value of water as a precious resource and develop responsible water-use habits
- Student-led projects and school-wide campaigns that provide opportunities for students to explore water conservation issues and advocate for sustainable practices within the school community
- Design Thinking applied to water conservation, encouraging students to investigate environmental issues and develop innovative water-saving solutions
- 25th Silver Jubilee sustainability initiatives, which include water efficiency measures to cultivate responsible water usage among students and staff

Through these learning experiences and whole-school efforts, Anderson Primary School nurtures environmentally conscious students with the knowledge and skills to champion sustainable water use in school and beyond.



Water conservation reminders installed by the sink to encourage responsible water use

Water Efficiency Awards 2026 Winners

Schools

Kuo Chuan Presbyterian Primary School

At Kuo Chuan Presbyterian Primary School (KCPPS), water stewardship is spearheaded by the Greening Kuo Chuan (GKC) movement, guided by MOE's 4Cs Eco Stewardship framework:

- Curriculum: water conservation messages are taught by form teachers during Form Teachers' Time, with water sustainability woven into Mother Tongue, Music and Art lessons in the lead-up to Singapore World Water Day
- Campus: water-efficient self-closing delayed-action taps and constant flow regulators help manage water consumption, while a filterless rainwater-fed ecopond, pupil-designed washroom posters and regular leak monitoring further support responsible water use across the school
- Community: school departments and parents work together to coordinate and sustain water conservation efforts, fostering synergy and shared ownership
- Culture: a whole-school GKC movement strengthens greater awareness, accountability and responsible water-use habits through frequent engagement



KCPPS goes blue for Singapore World Water Day

Water Efficiency Awards 2026 Winners

Schools

Nanyang Primary School

Nanyang Primary School adopts a whole-school approach to water conservation, combining infrastructure improvements with student-led initiatives.

- QR-code fault-reporting placed strategically around the school, to enable swift identification, reporting and rectification of water leakages and faulty fittings
- New water coolers with targeted flow designed for filling water bottles to reduce water spillage and wastage
- Environment Monitors participating in a Waterways Watch Society learning journey and litter-picking at Marina Reservoir, before leading peer education during Eco Week
- Eco Week pledges which reinforce a school-wide ethos of reducing water usage
- Educational talks such as "The Story of Our Waterways" to deepen students' understanding of Singapore's waterways and the importance of conservation
- A cross-disciplinary VIA project for Primary 5 students integrating Character and Citizen Education (CCE), Science and English, culminating in peer presentations on Singapore's four national taps and water conservation needs
- A Maker's Programme for Primary 6 students, incorporating water sustainability into their future town designs



Environment Monitors litter-picking along the Marina Reservoir as part of their Learning Journey

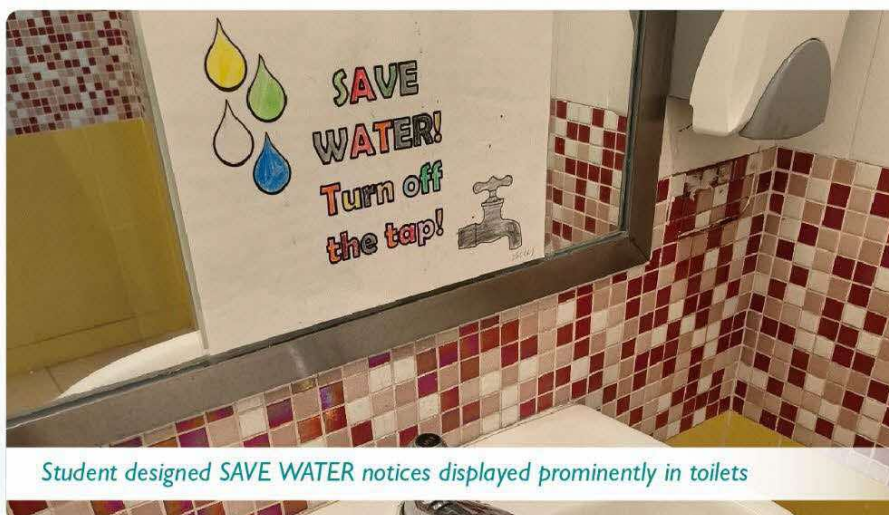
Water Efficiency Awards 2026 Winners

Schools

Springdale Primary School

Springdale Primary School champions water stewardship through a whole-school approach, integrating conservation across operations, curriculum, culture and community. This commitment is reflected across both daily operations and student engagement:

- Routine monitoring of water fittings and consumption by operations and cleaning staff to identify and address irregularities early, enabling prompt detection and repair of issues such as burst underground pipes before they escalate
- Water-efficient water fittings and self-closing delayed-action taps have been installed across key areas to regulate water flow and minimise unnecessary usage
- Prompt maintenance of water coolers, taps and sanitary fittings, with defective fittings repaired or replaced immediately upon detection
- Water conservation initiatives integrated into the school curriculum, nurturing environmentally responsible students from an early age
- School-wide awareness campaigns featuring assembly talks, Save Water notices and student-designed posters, fostering pride and ownership among students, staff and visitors
- Participation in National Environment Agency's GoGreen SG campaign by the MOE Kindergarten section, engaging young children and their families in water and energy conservation efforts and helping to instil good habits



Student designed SAVE WATER notices displayed prominently in toilets

Water Efficiency Awards 2026 Winners

Schools

Xishan Primary School

Xishan Primary School promotes water conservation through a combination of student leadership and practical water-saving initiatives.

- Students from the Environmental Club lead a school-wide campaign that encourages responsible water use among their peers and staff
- As part of the campaign, they design and create water conservation decals displayed at toilets, wash basins and other water points to remind the school community to turn off taps properly, avoid water wastage and use water responsibly
- This initiative nurtures students' creativity while strengthening awareness of water conservation in Singapore
- Complementing these outreach efforts, the school reuses pond water to irrigate its gardens
- A water pump draws water from the pond to water orchids and other plants, reducing reliance on potable water for irrigation
- By reusing pond water for irrigation, the school supports sustainable water management, maintains its greenery and reinforces a culture of responsible water use, contributing to its overall commitment to water and efficient use of water resources



Pond water is reused to irrigate the school's plants, conserving potable water

Water Efficiency Awards 2026 Winners

Schools

CHIJ St. Joseph's Convent

At CHIJ St. Joseph's Convent, water conservation is a shared responsibility embraced by the entire school community. This commitment is put into practice through a combination of water-efficient operations, student advocacy and environmental education:

- Rainwater harvested through the Eco Garden system is used to replenish the running pond and irrigate plants, reducing reliance on potable water for these purposes
- Water use is further optimised through scheduled watering, regular monitoring of water consumption and prompt repair of leaks to minimise wastage
- Plants are watered according to their needs, with watering carried out during cooler periods where possible to reduce evaporation and ensure that water is used effectively. These practices help the school maintain its green spaces while promoting responsible and efficient water use
- Students also play an active role as Eco Stewards, promoting responsible water-use habits through awareness campaigns and activities, including the 2025 World Water Day “Water You Carry” activity
- In 2026, Secondary 1 students further strengthen their understanding of water conservation through cross-disciplinary learning in Science, Geography and Character and Citizenship Education (CCE). These efforts encourage students to understand the importance of conserving water and to adopt sustainable water-use practices in their daily lives
- The school also promotes water efficiency through the use of water-efficient fittings and infrastructure across the school premises, supporting the efficient use of water as part of daily school operations



The Eco Garden-teaching students to make every drop count

Water Efficiency Awards 2026 Winners

Schools

Clementi Town Secondary School

At Clementi Town Secondary School (CTSS), water conservation forms part of a wider commitment to sustainable living. Students learn about the connection between energy and water, including how energy is required to produce NEWater through reverse osmosis. The message is reinforced through Earth Day and Singapore World Water Day. Beyond education and awareness, responsible water use is supported by these practices:

- Self-closing delayed action taps installed in toilets and canteens, with water pressure and flow rates lowered to minimise wastage
- Weekly meter readings submitted by security officers for review by operations managers, enabling unusual spikes and potential hidden or underground leakage to be promptly identified and addressed
- Regular review of water bills for accountability with unusual consumption rate escalated to the Vice-Principal (Admin)
- A school-wide integrated fault reporting system accessible to staff and students, with reported leak assigned serialised case numbers and rectification tracked for internal review
- Optimised use of high-pressure water jet for cleaning, limited to once-a-year for selected areas, and disallowed for everyday cleaning
- Water conservation and sustainability education through the G1 Science syllabus
- Empower student leaders to champion water conservation alongside energy conservation through green reminders



Student leaders facilitate water conservation activities at the canteen during CTSS's combined Earth Day and World Water Day commemoration

Water Efficiency Awards 2026 Winners

Schools

Greenridge Secondary School

Greenridge Secondary School's Learn for Life Programme, "Champions of Good Causes", exposes our students to sustainable living, including sustainable city planning, water conservation, energy efficiency and environmental stewardship.

Beyond classroom, responsible water use is reinforced through:

- Indoor hydroponics farming, scheduled toilet cleaning and prompt reporting of faulty water points
- Installation of water-efficient fittings, including sensor taps in the canteen and selected toilets
- Regular inspections to detect leaking taps and faulty toilet flushing systems, alongside with close monitoring of water meter readings to identify abnormalities
- Prompt repair of detected leaks to prevent water wastage and property damage

Through these efforts, Greenridge Secondary School aims to minimise water consumption and reinforce a culture of conservation within the school community.



Students learn efficient use of water and food security through indoor hydroponics farming

Water Efficiency Awards 2026 Winners

Schools

Tampines Secondary School

Tampines Secondary School promotes responsible water use through a combination of water-efficient infrastructure, operational practices and school community engagement:

- Water-efficient fittings, including self-closing delayed-action taps, constant-flow regulators and vandal-resistant outdoor taps in high-traffic areas, help regulate water flow and minimise unnecessary water use
- Water-conscious cleaning and maintenance practices, including limiting the use of high-pressure water jets to essential cleaning activities and shutting off the water supply one day before scheduled water tank cleaning and annual certification tests
- Water conservation awareness promoted through posters around the campus to remind students of responsible water practices
- Singapore World Water Day engagement, with students briefed on water conservation and participating in the “Water Guardian Challenge” during the Mass Run at Bedok Reservoir, combining physical activity with environmental education
- Responsible water use among teachers and staff, supported by careful management of cleaning equipment and coordination of maintenance tasks
- Extend water conservation learning beyond the classroom, with students encouraged to apply their learning from initiatives like the “Water Guardian Challenge” at home and in their wider communities



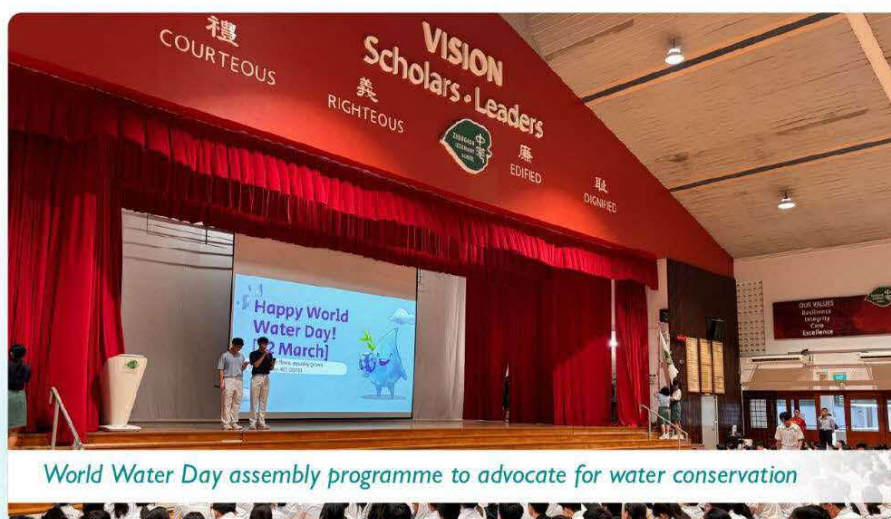
Water Efficiency Awards 2026 Winners

Schools

Zhonghua Secondary School

Zhonghua Secondary School promotes water conservation through student engagement initiatives, infrastructure upgrades, and monitoring systems. Its efforts span both water conservation education and operational improvements:

- An Eco Stewardship Committee to raise students' awareness of water conservation, through Water Conservation Campaigns and World Water Day commemoration
- Water conservation and sustainability education for Secondary 1 students, covering the importance of clean water, the effects of water pollution and how to reduce it, and learning separation techniques to obtain potable water in Singapore
- Upgrading toilets with auto sensor taps and water-efficient flushing systems to optimise water usage
- Fault reporting and routine checks to enable timely rectification of leakages and faults
- Automated water irrigation to optimise water usage based on plants' needs
- Limiting the use of high-pressure jets for washing and adopting more effective cleaning methods to conserve water
- Close monitoring of monthly water consumption, with abnormalities discussed and followed up by school leaders



World Water Day assembly programme to advocate for water conservation

Water Efficiency Awards 2026 Winners

Schools

Tampines Meridian Junior College

Tampines Meridian Junior College adopts a holistic approach to water conservation by integrating efficient infrastructure, proactive monitoring and community engagement to promote responsible water use.

Through operational controls and awareness programmes, the college continues to strengthen sustainable water management practices and cultivate a culture of environmental responsibility. These include:

- Regular monitoring of water usage to enable early detection of abnormal usage patterns and potential leaks, allowing for timely rectification
- Installation of water-efficient fittings, including self-closing, delayed-action taps in canteens and toilets
- Strategically placed QR codes to facilitate prompt reporting and swift rectification of water leakages and faulty fittings
- Regular briefings to operations staff on water and energy conservation practices, including limiting the use of high-pressure water jets to only when necessary
- Water conservation awareness through TV messaging systems and posters displayed across the school
- Efficient irrigation practices in garden areas to optimise water use



Regular briefings to operations staff on water conservation practices

**Water
Efficiency
Awards
(Projects)
2026
Winners**

Water Efficiency Awards (Projects)

2026 Winners

Electrooxidation Water Treatment System By Amazon Web Services Singapore

Amazon Web Services (AWS) Singapore provides cloud computing infrastructure and services, operating data centres that provide on-demand computing resources globally.

AWS Singapore operates mission-critical data centres in Singapore, where cooling towers are essential to operations but consume water through evaporation and blowdown discharge.

To reduce cooling tower water consumption, AWS Singapore partnered with a local startup to pilot and deploy an electro-oxidation (EO) water treatment system. Using mixed-metal oxide electrodes, the system generates Reactive Oxidation Species (ROS) to reduce hardness, conductivity, and chemical oxygen demand, while producing free chlorine for biocidal control without chemical additives.

As the first deployment of electro-oxidation water treatment in a large-scale data centre environment, the project required rigorous risk mitigation to protect mission-critical operations. AWS Singapore adopted a phased pilot approach with defined success criteria and rollback protocols, while engaging stakeholder alignment through transparent, data-driven performance reporting.

Full-scale deployment was achieved in 2024, enabling an approximate 15% increase in cycles of concentration.



Electro-oxidation system deployed at AWS data centre

Water Efficiency Awards (Projects)

2026 Winners

Local Scrubber Reclaim System By Micron Technology

Micron is a semiconductor manufacturer delivering high-performance DRAM, NAND and NOR memory and storage solutions. Their Singapore facility serves as Micron's NAND Centre of Excellence.

While centralised and optimised abatement designs have reduced the need for water-intensive localised wet scrubbers, they remain necessary for certain process tools to treat certain hazardous gases. To reduce NEWater demand for wet scrubbers, Micron implemented a local scrubber reclaim system that collects, treats, and recycles scrubber wastewater for reuse, recovering water that would otherwise be discharged.

The reclaim system uses closed-circuit, single-stage reverse osmosis to achieve a water recovery rate of more than 85%. To maintain the performance and reliability of the reclaim system, Micron also employs AI-driven analytics to evaluate operating data, membrane condition, and system performance, and recommend cleaning schedules and operational adjustments accordingly.

Since its commissioning in 2023, the reclaim system has reduced NEWater consumption by almost 10%, increased recycling rates from 44.3% to 48.5%, and achieved 100% system availability with zero downtime.



The local scrubber reclaim system combines advanced treatment and AI optimisation to improve water recovery and operational efficiency

Water Efficiency Awards (Projects)

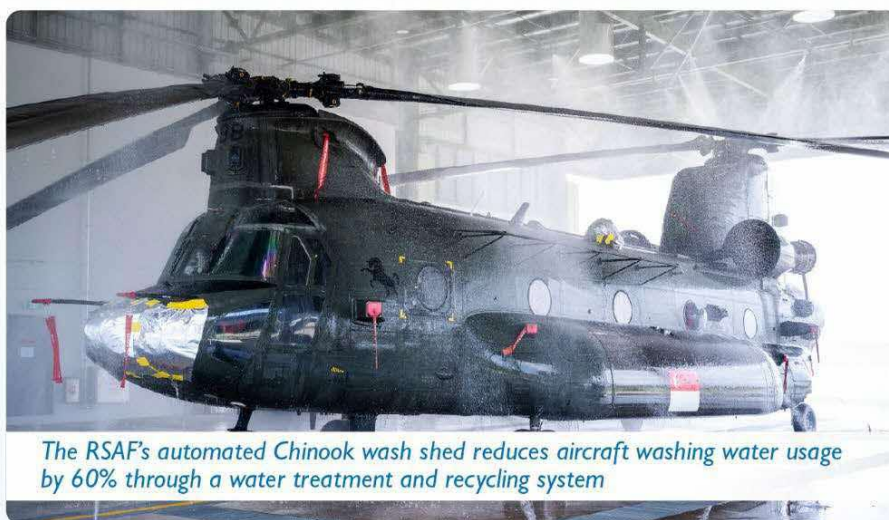
2026 Winners

Automated Chinook Wash Shed By the Republic of Singapore Air Force

The Republic of Singapore Air Force (RSAF) safeguards Singapore's skies, maintains 24/7 air defence, conducts search and rescue missions and supports humanitarian aid and disaster relief operations.

The RSAF's automated Chinook wash shed was developed to enhance the RSAF's operational efficiency and to contribute to its sustainability efforts. During the design stage, users demonstrated the manual washing process for the technical team to understand their challenges. The wash shed was subsequently developed through a series of collaborative iterations.

The RSAF's automated Chinook wash shed taps on automation to enhance operational efficiency, enabling a single operator to manage the entire aircraft washing process that previously required a five-person team. The automated system incorporates water treatment and recycling technology, which led to a 60% water savings as compared to manual washing.



The RSAF's automated Chinook wash shed reduces aircraft washing water usage by 60% through a water treatment and recycling system

Water Efficiency Awards (Projects)

2026 Winners

Water Treatment Plant Operational Optimisation By Taser Power Pte Ltd

Taser Power Pte Ltd is a power generation company operating a combined cycle gas turbine plant in Singapore.

This project focused on reducing water consumption at the plant's Water Treatment Plant (WTP) by optimising its operating regime. Through detailed process review and demand analysis, the team redesigned the WTP operating philosophy to better match actual water demand, reducing potable water consumption from approximately 7,000 m³ per month to 4,000 m³ per month while maintaining reliable plant operations.

Rather than relying on capital-intensive upgrades, the project leveraged existing treatment infrastructure and process optimisation techniques to minimise water losses associated with full-tank recirculation and unnecessary plant cycling. A key challenge was balancing water savings with operational reliability to ensure efficient treated water remained available under varying plant conditions.

The successful implementation demonstrates how significant water savings can be achieved through process optimisation, while strengthening operational efficiency and sustainable water stewardship.



Plant engineers reviewing the Water Treatment Plant control system to optimise operating conditions and improve water efficiency performance

Acknowledgements

We would like to extend our sincere thanks to the members of the SWMA Selection Committee for generously lending their time and expertise to select this year's winners.

Our heartfelt appreciation and congratulations also go out to all our recipients across the Singapore Watermark Awards, Water Efficiency Awards and Water Efficiency Awards (Projects).

Lastly, to every water champion making strides towards water conservation and sustainability: your efforts inspire us and play an instrumental role in shaping a water sustainable future for Singapore.

Thank you all for driving forward our shared journey towards water sustainability.

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