

Children's Hospital to Reduce Greenhouse Gas Emissions Using Digital Technology

RESULTS

- Analytics for usage trends help maintain correct supply levels
- Authorized user visibility and data access anytime, anywhere
- Alarms for specific thresholds assist in leak detection
- Easy to scale; unlimited users, multi-locations & diverse assets
- Ability to monitor nitrous oxide consumption to benchmark
- Decreased downtime to support critical healthcare needs
- Increased sustainability for future digital technology growth



APPLICATION

Emerson's DeltaV™ SaaS SCADA
DeltaV SaaS SCADA Mobile
Emerson Flow Measurement
Emerson Edge Gateway

CUSTOMER

The Sydney Children's Hospitals Network incorporates The Children's Hospital at Westmead, Sydney Children's Hospital, Randwick, Bear Cottage, the Newborn and paediatric Emergency Transport Service (NETS) and the Children's Court Clinic.

They care for up to 170,000 children every year across their hospitals at Westmead and Randwick. Of those, 100,000 are Emergency Department presentations and 60,000 admissions.

Since their formation in 2010 they have grown to a team of more than 8,000 staff, all committed to providing world-class paediatric health care in a family-focused, healing environment.

CHALLENGE

The Children's Hospital at Westmead is committed to an environmentally, socially and financially sustainable future, and are focused on achieving net zero by 2035 for emissions that they directly control, recognizing the impact of their actions and climate change on the physical and emotional wellbeing of children and young people.

"This reduction, scaled across similar institutions nationally and globally, will address an important carbon hotspot in healthcare"

- Sustainability Lead and Anaesthetist

CHALLENGE (CONTINUED)

Because of this strong commitment and the desire to take action it was important to them to have a benchmark in place of the volume and consumption of nitrous oxide, as a first step to reduce greenhouse gas emissions.

Without a digital monitoring or alarm system in place they did not have access to alarm capabilities, presenting a critical gap in their operational framework. Addressing this deficiency is paramount to enhancing the overall system functionality and ensure timely responsiveness to crucial alerts and notifications.

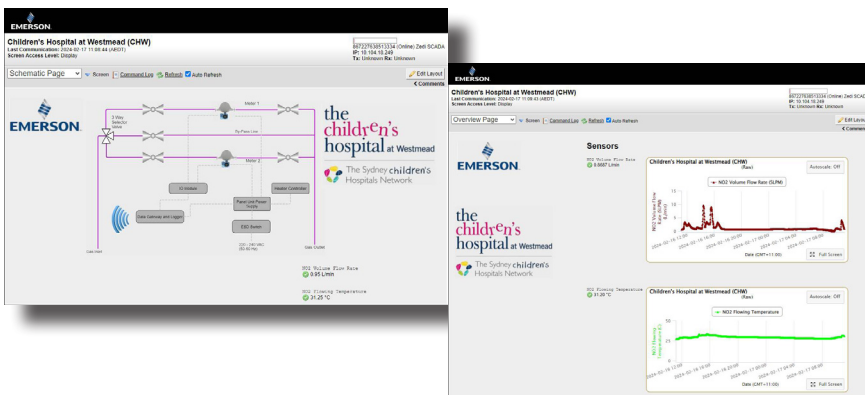
Like many healthcare facilities around the world, digital technology had not been highly implemented or adopted due to limited budgets and already maxed out information technology staff with other priorities.



SOLUTION

Emerson is very well versed in making digital technology easy and accessible, with experts that possess a vast experience of delivering the right solutions to fit the need of our customers.

Accurate Emerson flow measurement, and edge gateways were installed and set to flawlessly communicate with Emerson's DeltaV™ SaaS SCADA to deliver actionable insights and data, including usage trends to authorized end users complete with alarms that were set at specific thresholds to ensure any potential leaks were quickly detected.



Now they have the ability to effortlessly monitor the nitrous oxide consumption from any web browser or DeltaV SaaS SCADA Mobile, and even send the data to their business databases/systems.

This solution also delivers a benchmark of nitrous oxide consumption and usage to help them achieve net zero by 2035 for emissions that they directly control to benefit the physical and emotional wellbeing of children and young people.



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DeltaV SaaS SCADA