

Engineering Smart Utilities

G'day ,
As we wrap up **April 2025**, we're excited to celebrate our clients' successes and share key updates from across the industry. This month has marked significant progress in our ongoing commitment to innovation and customer collaboration.

ACE at Hannover Messe: Future-Proofing Client Success



Thanks to **Schneider Electric's** sponsorship, the ACE team attended **Hannover Messe 2025** this April — the world's leading industrial technology exhibition — to explore the latest innovations in automation, SCADA, renewable energy integration, and digital transformation.

At the event, we observed the rapid advancement of edge technology, including new edge controllers that function as PLCs, operator interfaces (OIPs), and local gateways. We are already incorporating this technology into our designs for clients' mid- and small-site applications — helping to reduce costs while strengthening data security, particularly when the SCADA server or programming platform is hosted in a cloud environment.

By continually investing in new knowledge and global best practices, ACE ensures that every solution we deliver is future-proof, cost-effective, and designed to minimise project risks.

At ACE, we believe innovation is not just about adopting new technology — it's about applying it in ways that drive real, measurable outcomes for your business.

We're proud to be your trusted SCADA partner on this journey.

Future-Proof with ACE

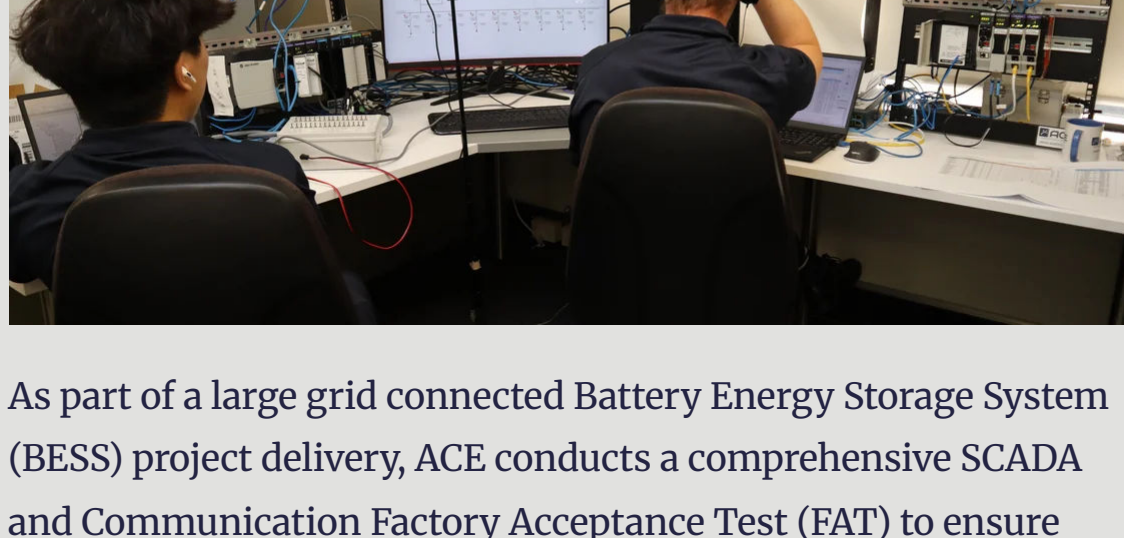


This month, the PNG Power SCADA team successfully completed ACE's specialised training on power system control hardware and software at our office. Their engineers received hands-on training on major control system platforms, including Siemens, Allen-Bradley, ABB, SEL and more.

It's a fantastic milestone, equipping their team with the skills and confidence to drive smarter, future-proof, and more resilient utilities. We're proud to have facilitated their learning and excited to see their continued success as they upgrade the SCADA system across their island-wide utilities network!

ACE Training Program

Battery Energy Storage System (BESS) SCADA and Communication FAT



As part of a large grid connected Battery Energy Storage System (BESS) project delivery, ACE conducts a comprehensive SCADA and Communication Factory Acceptance Test (FAT) to ensure system reliability and performance. The FAT covers the full integration and validation of the system's PLCs, SCADA platforms, and network devices.

Key testing activities include:

- **PLC Testing:** Validation of control logic, input/output (I/O) simulation, and system responsiveness under operational scenarios.
- **SCADA Testing:** Point-to-point testing of all SCADA tags and full functionality verification against the control philosophy and design documentation.
- **Network Device Testing:** Setup and testing of all routers, switches, and firewalls, ensuring proper configuration and communication between devices.
- **Redundancy and Failover Testing:** Verification of system resilience through controller, server, and communication failover scenarios to confirm continuous operation without data loss.
- **Network Bandwidth Testing:** Assessment of communication network performance under load to validate bandwidth sufficiency and ensure low latency for real-time SCADA operation.

Our rigorous FAT process ensures that every control and communication component is fully validated before deployment to site, minimizing commissioning risks and ensuring a smooth transition to operational readiness

SCADA Project Delivery Process

Celebrating Future Engineers: ACE Sponsors Curtin University Student Awards



At ACE, we are proud to support the next generation of engineering talent. This April, ACE sponsored awards at Curtin University's Engineering 2024 Student Awards ceremony, recognising outstanding achievements in PLC and SCADA project work.

Congratulations to Benjamin Jackson and Aaron Teng, who were awarded for their exceptional Year 4 project units in PLC/SCADA subjects. It was an honour for ACE to present these awards and celebrate the hard work, innovation, and potential of tomorrow's industry leaders.

We look forward to seeing these talented engineers make their mark on the future of utilities, renewable energy, and industrial automation!

Young Engineers Find Greater Opportunities and Satisfaction at ACE

Smart Integration, Big Returns



ACE's smart BESS SCADA integration solutions are designed to deliver more than just seamless control — they drive real financial earnings for our clients.

By optimising system architecture, streamlining data management, and enabling real-time operational efficiency, ACE helps clients maximise the return on their energy investments. Discover how smarter SCADA integration can significantly reduce project costs, operational risks, and lifecycle expenses — setting you up for long-term success in the evolving energy landscape.

Maximise ROI with ACE's Smart Integration

Need Help? Reach Out to ACE

[White Papers](#)[Case Studies](#)[Industry Blogs](#)

Please feel free to share our newsletter on social media.



Australian Control Engineering, Headquarters: Level 5, 200 Adelaide Terrace, Perth, Branches: Brisbane, Newcastle, Melbourne, Hobart, WA, QLD, NSW, VIC, TAS, Australia, +61 1300 561 881

[Unsubscribe](#) [Manage preferences](#)

Send free email today

HubSpot