PRESS RELEASE

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Powering Sustainability: Thinlabs Leads the Way in Cutting Energy Use by Half — Proven in Landmark U.S. Study and Australian Trials

Southport, QLD, Australia – 21 October 2025

Thinlabs, the global leader in low-power and Power over Ethernet (PoE) computing, is setting a new standard for sustainable technology.

Independent U.S. research and Australian field trials have confirmed that Thinlabs' innovative PoE All-In-One computing systems can halve energy use without compromising performance — providing organisations with a proven, data-backed pathway to meet their ESG and net-zero commitments.

Power over Ethernet (PoE) technology enables devices such as computers and monitors to receive both power and data through a single network cable — improving energy efficiency, simplifying installation, and reducing overall power consumption.

The Minnesota Department of Commerce, in partnership with the U.S. Department of Energy, published the 2022 report *The Demonstration of Power over Ethernet (PoE) Technologies in Commercial and Institutional Buildings*. The study found that the Thinlabs Dual Screen PoE All-In-One computer reduced power consumption by approximately 50 per cent compared with a standard desktop PC and dual-monitor setup — with no reduction in user performance or functionality.

> "An AC-powered desktop PC workstation with two external monitors was replaced by a Thinlabs Dual Screen PoE All-In-One computer… The staff person reported no difference in performance between the two workstations… Power data confirmed a roughly 50 per cent reduction in energy use."
> *— Minnesota Department of Commerce and U.S. Department of Energy, 2022*

Proven Innovation: Global Validation Meets Local Results

Thinlabs' Australian trials have delivered equally compelling results. When compared with incumbent non-medical-grade All-In-One systems, the Thinlabs medical-grade low-power All-In-One achieved a consistent 50–60 per cent reduction in energy consumption — all while maintaining exceptional responsiveness, display quality, and user satisfaction.

> "The data is consistent both internationally and here in Australia," said Simon Mair, Managing Director of Thinlabs Australia. "Our medical-grade systems deliver the same or better user experience while using around half the energy of the incumbent technology found in many hospitals. This is real innovation with measurable environmental impact."

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Empowering Government Departments to Achieve Sustainability Goals

Both New South Wales Health and Queensland Health have made clear commitments to achieving net-zero emissions by 2050 and improving energy efficiency across all facilities. Thinlabs provides the innovative computing infrastructure required to make those targets achievable — today.

> "We understand Queensland Health operates around 200,000 desktops, laptops and All-In-One workstations," Mair said. "Even if only half of those transitioned to Thinlabs' low-power alternatives, the reduction in energy use and emissions would be significant. It's a practical, data-driven solution that directly supports ESG and sustainability objectives."

Mair noted that while large-scale procurement in healthcare is complex, Thinlabs' proven results make the case for action.

> "Health leaders no longer need to wait for new technology to meet their sustainability targets — the solutions already exist," he said. "Thinlabs' systems combine clinical-grade performance with dramatic reductions in power consumption. When organisations assess performance, efficiency and value side by side, the benefits for both clinicians and sustainability are undeniable."

Technology That Powers People, Performance and Planet

Thinlabs' Power over Ethernet and low-power AC All-In-One systems are designed for workstations on wheels, fixed desktops and clinical environments, delivering medical-grade safety, hygiene compliance and exceptional energy efficiency. When paired with the EPICUS battery system, clinicians benefit from extended runtimes, fewer workflow interruptions, and improved usability, while facilities gain measurable progress toward energy and emissions reduction targets.

> "This is not theory — it's proven evidence," Mair added. "We have independent validation from the U.S. Department of Energy and robust Australian results. Thinlabs is proud to lead the way in low-power, medical-grade computing — technology that supports clinicians, saves energy, and drives sustainability outcomes across the healthcare sector."

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For more information:
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Full United States Department of Energy study available at:
https://mn.gov/commerce-stat/pdfs/137582_CEE_PoE-Project_Report-and-addendum-final-secure.pdf