



EPOCH
TECHNOLOGIES

Innovative Sustainability Solutions
Designed for Hotels





Being Australian-based and operated, we specialise in manufacturing tailored, end-to-end solutions across the hospitality, education and healthcare sectors.

We locally design, manufacture and support solutions made specifically for clients needs. We combine software and hardware, working around our clients existing operations to deliver cost-effective solutions that integrate into their existing structure.

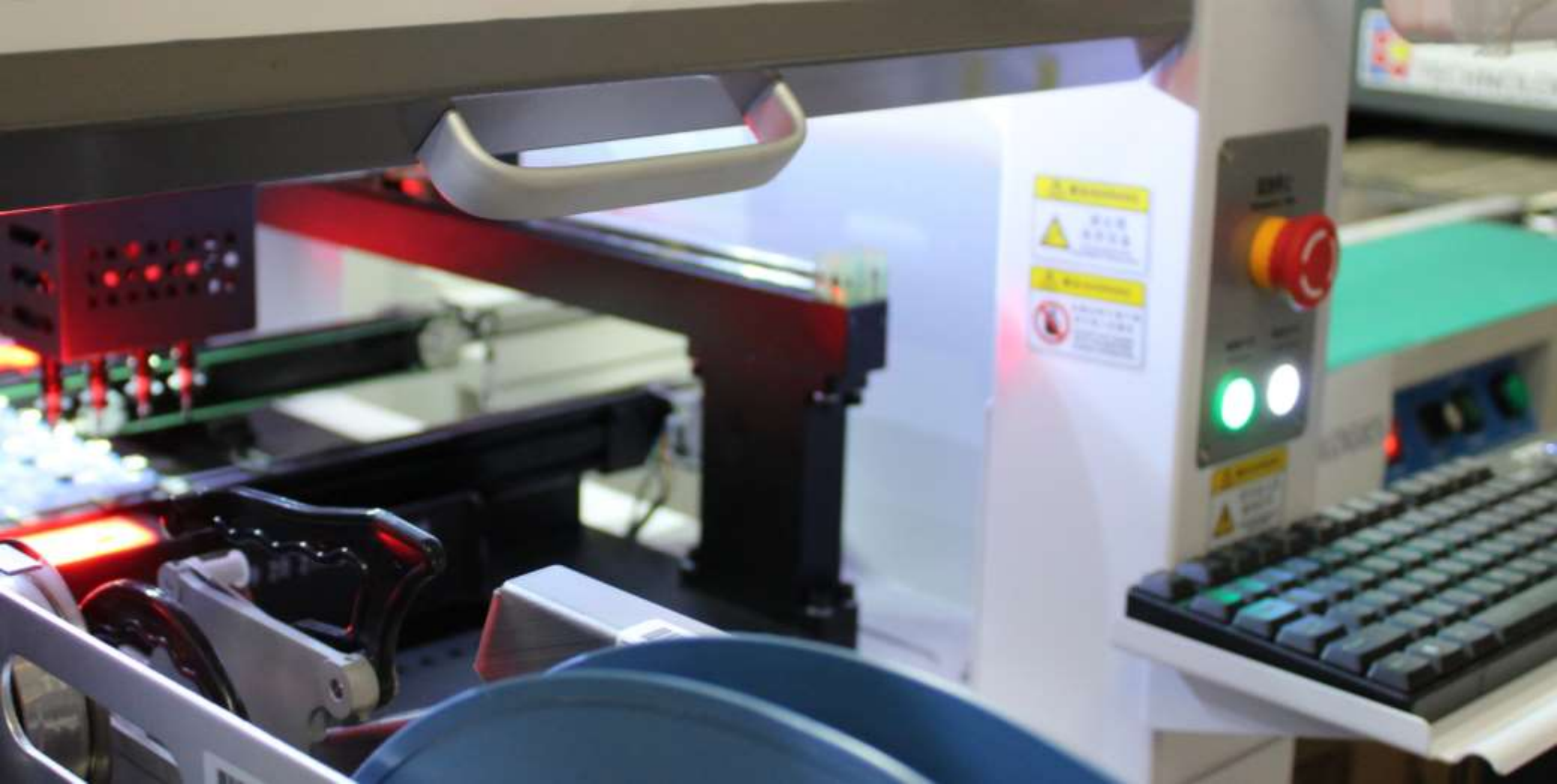
Our difference

About us

With a legacy dating back to 1983, **Epoch Technologies** embodies an unwavering commitment to innovative excellence. As an emerging leader in innovative hospitality solutions and more than 40 years experience, **Epoch Technologies** has successfully deployed Australian-made software and hardware solutions across a range of market sectors.

Being an end-to-end solutions provider, customer service and support are integral components across all stages of our projects – from consulting through to solution delivery and ongoing support.





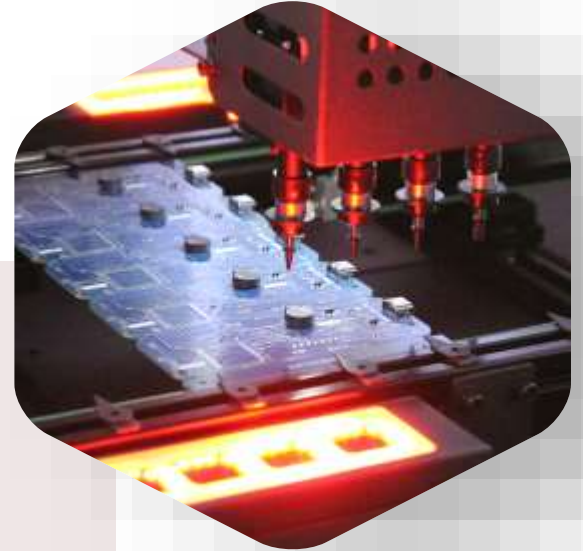
Locally Designed and Manufactured
Solutions & Support



EPOCH TECHNOLOGIES

Based in Australia, **Epoch Technologies** is a local solutions innovator designing, engineering and manufacturing customised intelligent automation and energy management solutions. We have our very own advanced manufacturing facility located in Melbourne that facilitates the production of our locally engineered solutions.

With three in-house R&D divisions of expert engineers and scientists, our solutions are all locally produced and supported. Ongoing client satisfaction is a core concept which is exemplified through our existing client referrals ultimately negating the need for any form of advertising over our proud 40+ year history in Australia.



Made in Australia



Our approach

Pre-sales

With our Australian based development, manufacturing and support facilities, we merge software and hardware to deliver a solution that seamlessly integrates into clients existing operations.

Our initial conversation begins with a focus on understanding the clients requirements. We then conduct a detailed site survey of the installation location taking into consideration site specific details such as building orientation, thermodynamic profiles, room layouts, energy requirements and existing infrastructure.

Epoch Technologies then works on presenting a solution proposal tailored to clients specific needs. Our proposal details the solution being installed, expected energy savings, and anticipated return on investment (ROI).

Our approach

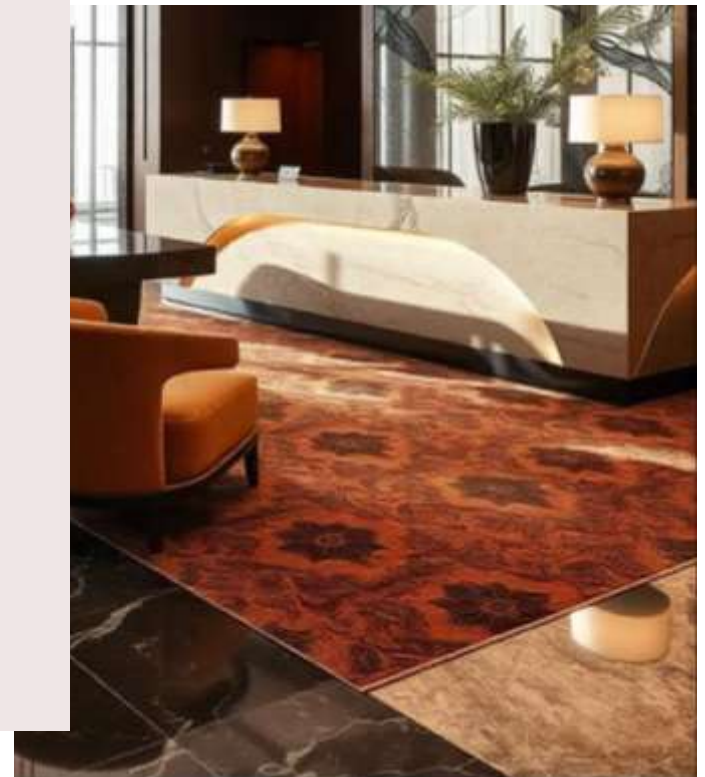
Installation

At this stage our project managers work closely with our client to set up and commission the site-specific solution. Seeing the project through to completion, the project manager will liaise between our engineering team and key stakeholders at every stage of the installation process to ensure a seamless integration into clients existing operations.

Local Support

At project completion, detailed documentation is provided to support client staff in their day-to-day operation of the solution.

Our Australian based aftersales team is highly trained to provide personalised expert knowledge of clients systems to ensure continual, uninterrupted operation.





Our sectors

Hospitality

EPOCH Technologies' Enterprise Hotel Management System (EHMS) enables the hospitality sector to implement sustainability across new and existing buildings with an emphasis on ROI, whilst enhancing the guest experience.

Education

Our Energy Management System (EMS) optimises energy usage in university student accommodation units.

Healthcare

Our Air Quality Monitoring solution provides real-time adaptive and automated control of air management within buildings based on pre-defined user policies. **EPOCH Technologies'** Rhythm platform is a Remote Resident Health Monitoring (RRHM) solution providing remote, real-time monitoring of patients, residents and outpatients.





Enterprise Hotel Management System

System Architecture

EPOCH Technologies EHMS

Lunaris

Cloud-based Platform

- Hosted software and hardware
- Redundancy management
- Secure VPN site link
- Reduced cost of ownership and implementation



Lunaris platform



Cloud-based server hosting
Lunaris platform

- Integration with existing BMS/PMS and other systems (e.g. door locks, in-room dining, etc)
- Cloud link failover operation
- Online/Offline/Hybrid operation
- Existing BMS not required
- Secure VPN site link to cloud (in online/hybrid operation only)
- Expandable to accommodate future requirements
- Transferable to new property at end of lease and retain ROI

Property Management Level

Single / Multi-site

- EMS reporting
- Energy policy management (site or enterprise based)
- Secure VPN link
- Alerts and alarm assignment
- Role based user management



Monitoring and Control

Room Level

- Utilise existing wired and wireless networks, reducing implementation scope and cost

Guest Experience Modules - GEM



GEM

In-room HVAC control and guest experience
modules (4" and 7" touch screen displays)

GEMx



In-room HVAC control and guest experience
module (15.6" touch screen display)

Centrello Property Meters



Centrello
Energy Meter



Centrello
Water Meter

Lunea Room Panels and Switches

- Lunea Hub
- Lunea Lux



Lux

Zentris Room Modules



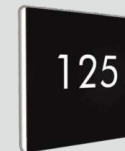
Zentris AirTV
Television Controller &
Air Quality Sensor



Zentris WinDoor
Door/Window Sensors



Zentris Assist
Accessibility
room alarm



Zentris Illuminate
Room Signs (make-up
room/do not disturb)



Zentris Blind
Automatic Roller
Blind Controller



Zentris Curtain
Automatic Curtain
Controller

Lunaris Automation Platform

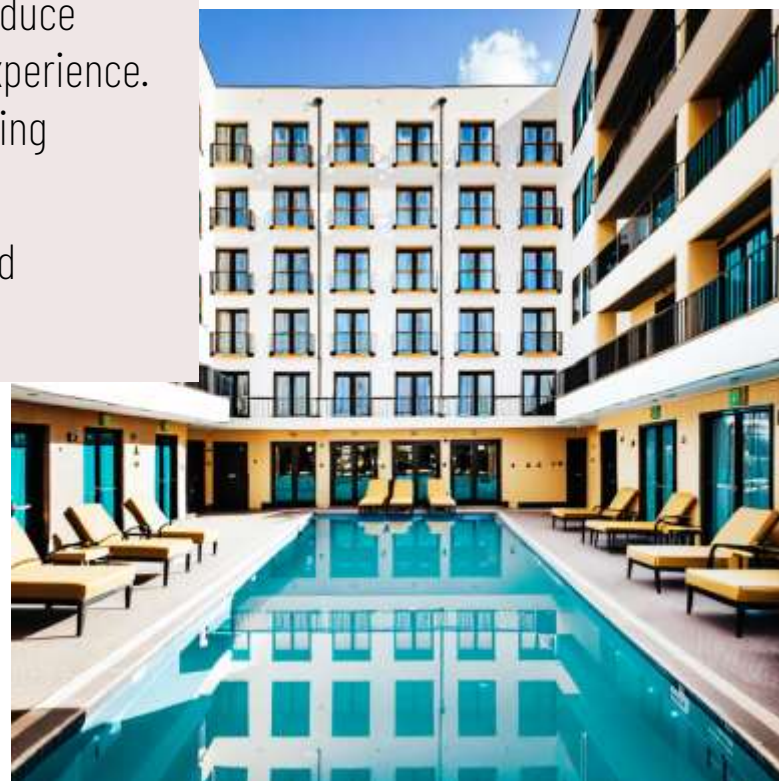
EPOCH Technologies' Enterprise Hotel Management System (EHMS), *Lunaris* is a cloud-based automation platform and sustainability solution designed specifically for hotels and focused on delivering ROI. Lunaris enables clients to integrate BMS, PMS, in-room dining, and remotely control HVAC systems, door locks, televisions and lighting through our centralised platform.

Hotel owners and operators can intelligently control, automate and reduce their energy consumption, whilst significantly enhancing the guest experience. Clients can implement automated sustainability across new and existing buildings with Lunaris, and auto-generate energy audits reports.

No other technology on the market is capable of offering a centralised solution.

Key benefits :

- Reduce operating costs
- Improve energy efficiency
- Cost-effective installation
- Automate energy audits
- Enhance guest experience



System Benefits



Reduce operating costs.

- Boost profit margins through utility savings
- Retain investment in solution at end of lease and ability to transfer to new property
- Automate guest room experience
- Automatically assign rooms based on energy efficiency rating, saving on utility costs



Integrate into Existing Property and Infrastructure.

- Cost-effective installation without requiring renovations. Uses wireless devices and communication to connect the platform devices, minimising installation costs.
- Seamlessly integrates into existing BMS, PMS and other systems (including third-party, e.g. door locks)
- Highly customisable design, engineering and manufacturing and future updateable design

Gain control and improve efficiency whilst providing guests modern comforts





Lunaris

Cloud-based user interface. Lunaris offers convenience of access. Building owners, hotel managers and engineers can access Lunaris from a desktop computer or a mobile device. Monitor and control property infrastructure remotely, from anywhere in the world. Receive alerts and alarms on daily operations, monitor performance and keep track of building occupancy.



System Benefits



Automated building property savings.

- Automated energy optimisation and management system
- Automated system savings using user-defined energy policies specific to property
- On-demand ventilation



Accelerate Sustainability Transformation.

- Generate energy audit reports
- Automatically track sustainability data
- Track overall building emissions and costs
- Monitor and manage utility costs
- Monitor individual room level expenditure, including reporting per guest
- Analyse cost and revenue
- Individual metrics across multiple properties, buildings, levels and rooms

Enterprise Hotel Management System



Scalable management across a single property or multiple properties with customisable energy policies and reporting across the enterprise.

- Real-time sustainability reporting per room
- Individual room and property level metrics
- Hotel room and building level energy policies
- Details and layout can be customised to client requirements



Save on energy usage using Lunarix, and enhance in-room guest comfort



Lunarix allows property owners, management and engineers to monitor and maintain HVAC systems and plant equipment using real-time data

Enterprise Level Management

Room Guest Experience Modules



Integrating with the Lunarix platform, EPOCH Technologies' Guest Experience Modules (GEM) offer cloud-based automated room control. GEM comprises of the latest in human occupancy detection, HVAC control and a high-resolution touchscreen display to allow guests to interact with and control a range of in-room functions.



The Most Advanced In-Room Guest Experience Module for Hotels



Room Guest Experience Modules

Available in 4", 7"
and 15.6" displays

GEM 4" display (shown with our Omniar room sensor)



- Automated energy management and monitoring with built-in HVAC controller (suits most brands)
- Personalised in-room touchscreen displays
- Room sustainability metrics during stay
- Advanced Omniar room occupancy and usage sensor*
- Temperature and air quality control*
- Automated TV control (compatible with most brands)*
- In-room guest experience and dining menus*
- Integrates with our Lunaris platform and range of Zentris Room Modules to automate and remotely operate curtains, blinds, televisions, etc

*options



GEM+

7" display (shown
without Omniar sensor)

GEMx
15.6" display



Lunea Room

Lux
Hub



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Lunea Room wall panels and hallway switches offer a wall-mounted high-resolution digital touchscreen display. Guests can interact with and control a range of in-room functions including lighting (Lunea Lux wall switch) and heating/cooling (Lunea Hub wall panel).

Guests can also book/order hotel amenities, express checkout and order in-room dining options all directly through the Lunea Hub wall panel.



Lunea Room Lux and Hub



Lunea Lux

- Ultra-slim design
- Easy, cost-effective installation. Replace existing wall switches
- 4" high-resolution digital touchscreen display
- Modernise the control of room lighting

Lunea Hub

- Ultra-slim design
- Easy, cost-effective installation. Replace existing thermostats
- 4" high-resolution digital touchscreen display
- Control in-room heating and cooling units (compatible with most brands)
- Real-time display of temperature and humidity
- Guests can book hotel amenities, order in-room dining options and express checkout



Zentris Room Modules²²

EPOCH Technologies range of Zentris blind and curtain controllers, accessibility alarm modules, illuminated signage, air quality and television control modules offer the latest, most advanced hotel room technology.

Zentris room modules provides seamless integration of existing room curtains, blinds and televisions into the Lunarix cloud-based platform, enabling their remote and automated control. Guests can also control these amenities using Room Guest Experience Modules (REM) located in each room.



Room Modules

Zentris WinDoor

- Real-time door and window open and close status
- Automated energy savings based on door and window positions
- Convenient installation with wireless connection and extended battery life



Zentris AirTV

- Real-time air quality monitoring for improved guest experience
- Comprehensive air quality metrics with granular monitoring across different spaces to ensure an optimal environment for your guests
- Remotely control most room televisions

Zentris Assist

- Real-time duress buttons with pull-cords or additional buttons
- Cost effective implementation with wireless communication and battery operation



Room Modules

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Zentris Illuminate

- Room door numbering with dynamic status indication (do not disturb or room service)
- Elegant design suits a range of decors
- Emergency evacuation alarm indicator with direction arrows*



Zentris Blind

- Roller blind actuators integrating with existing blinds
- Automated energy savings with blind position controlled based on temperature and system policies
- Cost-effective and simple installation



Zentris Curtain

- Curtain controller directly integrating with existing curtains
- Automated energy savings with dynamically adjusted curtain position
- Cost-effective and simple installation with wireless communications

Centrello Property Meters

EPOCH Technologies' range of Centrello property-level water and energy meters enable remote, automated and real-time monitoring of property energy and water usage, ensuring sustainability targets are frequently monitored. Centrello property meters seamlessly integrate existing property infrastructure, without requiring complex or costly installation.

Centrello property meters integrate directly into the Lunarix platform and can provide real-time alerts of water leaks, or potential spikes in energy usage.



Property Meters

Centrello Water Meter

- Synchronised real-time water meter with Lunarix integration
- Non-contact measurements allows installation without supply disconnection
- Cost effective and simple implementation with wireless communication



Centrello Energy Meter

- Real-time 3 phase energy meter
- Monitor existing plant remotely through Lunarix platform
- Integrated display with real-time measurements
- Identify energy consumption issues with plant and equipment across property
- Wireless communication

CONTACT

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