Advancing
Energy Tech



C-Bus Residential Project

Luxury Sunshine Coast home with advanced integration

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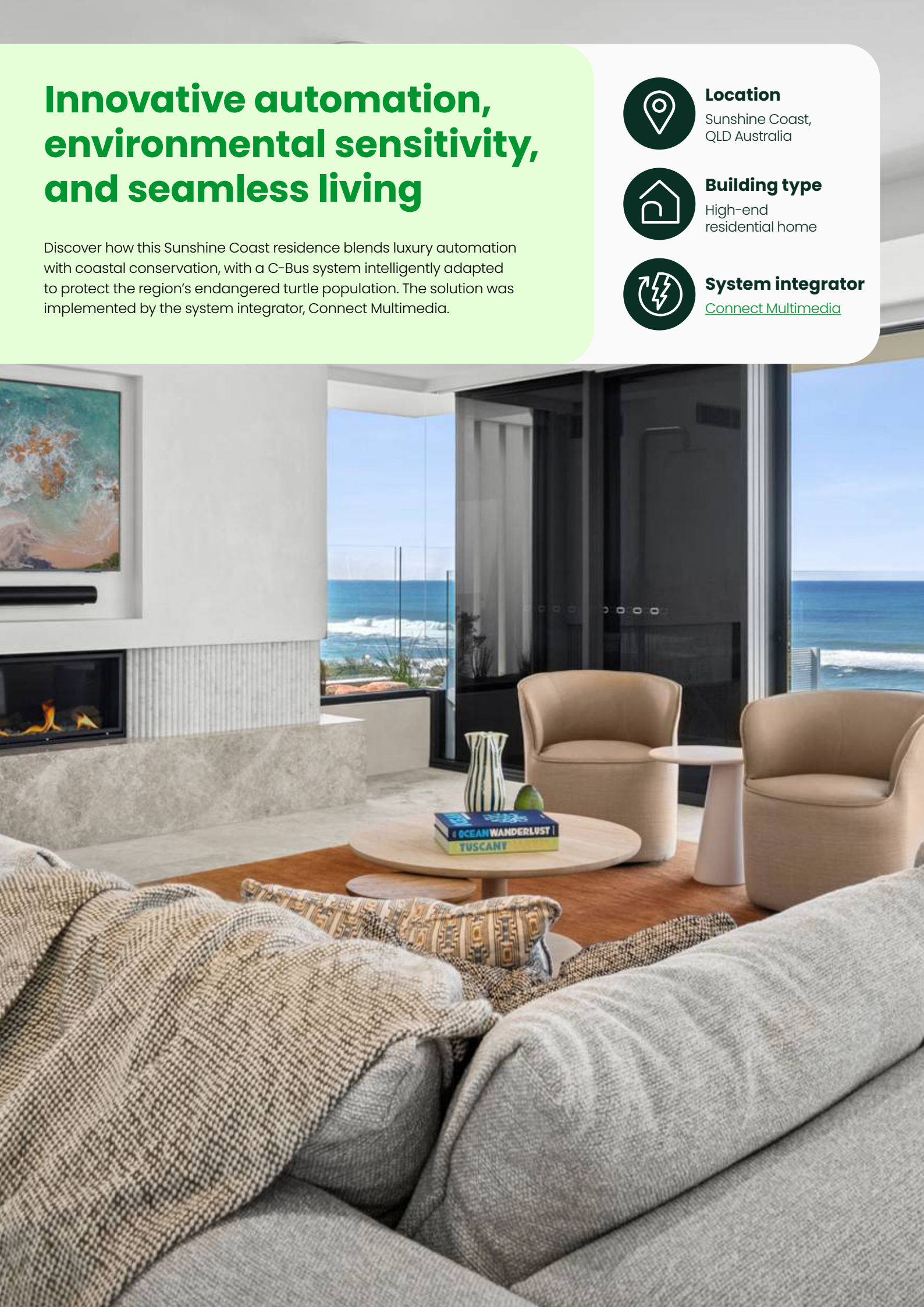
Innovative automation, environmental sensitivity, and seamless living

Discover how this Sunshine Coast residence blends luxury automation with coastal conservation, with a C-Bus system intelligently adapted to protect the region's endangered turtle population. The solution was implemented by the system integrator, Connect Multimedia.

Location
Sunshine Coast, QLD Australia

Building type
High-end residential home

System integrator
Connect Multimedia



Nestled along the Sunshine Coast, this luxury home redefines connected living by integrating advanced automation with ecological responsibility. The homeowners sought to create a living environment that not only offered seamless control and comfort, but also responded thoughtfully to local ecological concerns—particularly the preservation of the region's endangered turtle population.



Project vision

The homeowners wanted a fully integrated and connected home using C-Bus to manage lighting, security, AV, and climate across the large property. However, the proximity of the property to critical turtle nesting habitats brought unique environmental concerns. The local council mandated strict limits on external lighting during the turtle breeding season to prevent disorientation of hatchlings, which is a vital issue in coastal Queensland. Therefore, the residence required a scalable and reliable multi-network control system, consisting of hundreds of C-Bus units and designed to respond effectively to both human activity and environmental conditions.

Our solution

At the core of the home's automation is the C-Bus system, chosen for its reliability and scalability. The integrators networked C-Bus seamlessly with the security infrastructure and third-party systems to provide intuitive control over every facet of the property including lighting, climate, and surveillance. Environmentally responsive programming has been successfully integrated to protect the region's turtle habitat.

Seamless integration

C-Bus was networked across the property to unify control of lighting, climate, entertainment, and security.

- **Human-centric lighting automation**: High-definition cameras, motion sensors, and access points are centrally managed. C Bus is integrated with a human centric CCTV system to deliver intelligent, reliable lighting control. There was a security requirement to activate external lighting only when people were detected, rather than relying on PIR sensors that can be triggered by moving plants. To achieve this, Connect Multimedia configured the human-centric CCTV cameras to identify human movement. When detected, the cameras signal the C-Bus system to activate exterior and interior lights exactly when required, ensuring safety without manual intervention.
- **Third-party unification**: C-Bus forms part of an integrated automation solution that unifies lighting, access control, CCTV, audio-visual, and climate systems within a single user interface, with advanced Lua scripting enabling dynamic scenes and visual alerts via EDLT switches. Residents can easily manage entertainment, lighting, security, and climate settings, with fully customisable scenes and schedules.

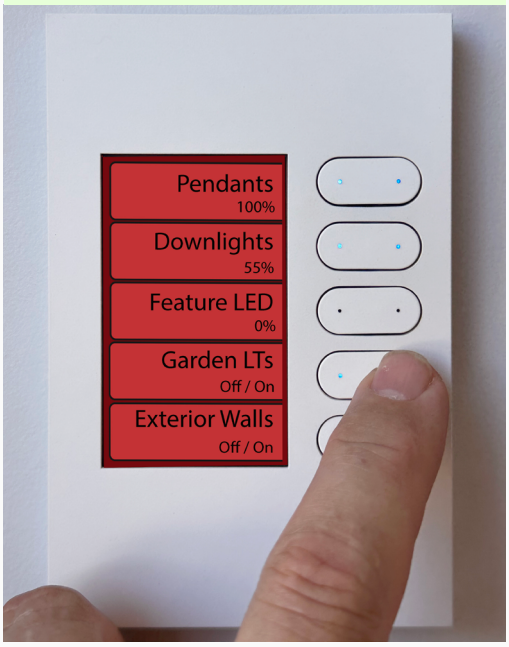
Ecological adaption and light pollution mitigation

The automation system is programmed to dim or disable garden and landscape lighting based on seasonal schedules. All external lights, including garden and landscape fixtures, are governed by C-Bus programming. During the breeding season, brightness levels are automatically reduced, and garden lights are switched off entirely at prescribed hours. The eDLT switches flash red to alert users when turtle protection mode is active, with manual override available for emergencies.

Turtle protection mode is **OFF**



Turtle protection mode is **ON**



The EDLT provides dual functionality based on the time of year. Council-prescribed schedules are incorporated into the control logic, enabling different button functions to be activated during and outside the turtle breeding season.

Advanced climate control

The residence took heating innovation a step further by using temperature sensors embedded in the flooring to replace conventional thermostats. These sensors feed real-time data to the C-Bus system, which can be controlled via the local EDLT switches.

- **Integrated floor heating:** Floor temperature is continuously monitored, with setpoints easily adjusted through the C-Bus interface, removing the need for separate wall mounted thermostats. The system can schedule heating to activate before residents wake up, ensuring warm floors and energy efficiency.

Outcome and impact

This Sunshine Coast project stands as a showcase of what's possible when advanced automation meets environmental mindfulness. Residents enjoy effortless control through intuitive eDLT interfaces that replace multiple switches and control points, while the council's ecological mandates are not only met but exceeded. Energy savings are realised through adaptive lighting and heating, and the property serves as a model for luxury homes in sensitive regions.

The thoughtful integration of C-Bus—along with a commitment to human-centric and eco-friendly design—demonstrates that modern luxury and environmental responsibility can coexist beautifully.

> *"C-Bus is the only home automation system with the power and flexibility to handle this highly customised installation. The visual feedback to the client from the eDLT light switch was essential on this project. Other systems simply can't match the complete package that C-Bus offers."*
>
> **Glenn Voyzey**
> **Company Director**
> **Connect Multimedia**



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Schneider Electric Australia
2 Banfield Rd, Macquarie Park
NSW 2113

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