

ARC Design Gippsland is committed to environmentally responsible building design across all areas of our work. Sustainable design principles are integrated into planning, design, documentation, and project delivery to reduce environmental impact and improve long-term building performance.

Our approach aligns with Victorian Government net-zero targets and current regulatory requirements. We support all-electric buildings, renewable energy integration, improved energy performance, and reduced operational and embodied carbon.

### **Whole-of-Life Design**

We establish clear targets for energy, water, waste, carbon, and indoor comfort at project commencement. Decisions are guided by whole-of-life value rather than upfront cost alone. Buildings are designed to be adaptable, durable, and efficient over time.

### **Energy and Carbon Reduction**

We encourage passive design, high-performance building envelopes, efficient services, LED lighting, and smart controls. Buildings are designed to avoid gas systems where practical and support heat pump technology. Solar PV systems are integrated where suitable, with provision for future expansion and EV charging.

### **Water Efficiency**

Water use is reduced through efficient fixtures, rainwater harvesting, drought-tolerant landscaping, and responsible stormwater design to protect nearby waterways.

### **Materials and Embodied Carbon**

We select durable, low-maintenance materials with lower carbon impact. Recycled content and certified timber are specified where suitable. Materials with high toxicity or limited recycling options are reduced or avoided. Buildings are detailed to allow repair, replacement, and disassembly where practical.

### **Healthy Indoor Environments**

We design for good daylight, ventilation, thermal comfort, and acoustic performance. Low-VOC materials are specified to support indoor air quality.

### **Resilience and Climate Response**

Buildings are designed to respond to hotter summers, heavier rainfall, and service disruption. Critical systems are located and protected to reduce flood and moisture risk. Maintenance access is prioritised to support long-term performance.

### **Construction and Commissioning**

We promote site waste reduction, sediment control, and responsible procurement during construction. Building systems are commissioned and fine-tuned after handover to confirm performance targets are achieved.

### **Monitoring and Continuous Improvement**

Where appropriate, energy and water use are monitored to support ongoing performance review and improvement. ARC Design Gippsland is committed to continuous improvement in environmental performance and delivery of buildings that are practical, durable, and fit for purpose.

### **Rowan Hammond DP-AD**

Registered Building Designer (Architectural)



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