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## House in Wategos Beach, Byron Bay by Mackay + Partners



Architects Mackay and Partners designed this private house overlooking the Pacific, near Byron Bay on Australia's east coast.

The placement and design of the house is intended to provide a “sense of isolation and protection”. It is divided into two levels of use – ground floor for entry, living and dining with open kitchen, while the upper level contains bedrooms and associated bathrooms. The solid structure of the entry is intended to accentuate the view of the Pacific Ocean upon entering. The interior consists of cast concrete, sen timber and corian surfaces and is designed not to intrude on the scenery. The simple layout of the ground floor with full height sliding glass provides access to the pool and decks, connecting inside and outside spaces.



The house design has incorporated a number of sustainable elements. Firstly the open glazed side design allows for natural cross ventilation as the main method of cooling, with the installation of a supplementary cooling system which utilises in-ground water to provide cooling to the house for the hottest days of the year. Heating when required is via an in-ground hydronic heating system. LEDs are the only lighting source, while taps and white goods have been selected to the highest energy and water efficiency ratings. The security system interlinks with the lighting system ensuring lights are not left on when unoccupied. The house also has solar panels and a rain-water storage tank.



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**Architects:** Mackay + Partners  
**Location:** Byron Bay, Australia  
**Type Of Project:** Private house  
**Project Architect:** Ken Mackay