

2nd International Conference on

COASTAL ZONES

July 17-18, 2017 Melbourne, Australia

Study of sustainable agriculture business model aquaponics

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Study of a sustainable agricultural business model using an aquaponics system is investigated to seek alternatives for food production at the rural and urban interface. It is expected that the masses of the world population will need 50% more food and 30% more fresh water over the next few decades. Therefore, this study explores the option coupled with engineered-natural systems to produce food while limiting water use in a soilless environment. This research examines an aquaponics system coupled with hydroponics to determine their employment as a viable commercial enterprise model at the urban and rural interface. The method of analysis includes literature review, survey activities via online and telephone interviews for the targeted groups, currently operating aquaponics systems at commercial scales. The results indicate that an alternative food production system with aquaponics is feasible in the sense that it can produce fish and vegetable sustainably within an ambient engineered-natural system.

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