



## CASE STUDY

# Nusa Penida Reverse Osmosis Water Purification System



### PROJECT SUMMARY

**Location:** Nusa Penida

**Description:** Solar Powered Reverse Osmosis Systems

**Equipment installed:** 2x Sea-Recovery Ultra Whisper 2000, 2 x 64 x 130 Wp Solar PV panels, 2 x 6 x 15 m2 trackers and 2 x 2000 AH battery banks

**Completed:** 2007

In 2007, Contained Energy was contracted by the Government to install two water purification systems that through solar powered reverse-osmosis is able to transform unclean and saline water into potable water. The Sea-Recovery Ultra Whisper System produces 2000 Liters of clean water for the island each day and consists of solar PV panels and solar trackers that follow the sun's rays and use this power to pump water from a well and clean it through a high tech reverse-osmosis machine. It also includes a battery system that is charged each day for operation outside daylight hours.

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### Benefits

Thanks to the solar CE system, the villages in Nusa Penida can now supply clean drinking water to their schools, medical clinics and homes essential for proper health and sanitation.



**Sea-Recovery Ultra-Whisper**