



CASE STUDY

Project: Hawaii Convention Center



Heart of the State Capital

The convention center is in the heart of the state capital and is close to Hawaii's top attractions.

The facility provides 1.1 million square feet of meeting space which can accommodate events of up to 13,000 attendees. There are 47 meeting rooms, a 200,000-square-foot exhibit hall, two (2) tiered-seating theaters, a 35,000-square-foot ballroom and a registration lobby of the same size.

As is to be expected for a building of this size, the **air conditioning system** is an essential component for the operation of the complex, and the **cooling towers** are part of this system.

There are many factors and variables to consider when selecting a cooling tower, and the location of the convention center is certainly one of them. **The fact of being on an island implies being in an environment of high salinity, which is very corrosive to metals.**



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The Hawaii Convention Center had 4 old cooling towers, which required constant maintenance due to corrosion, which became unsustainable.



Over time, the engineering and maintenance teams at the Hawaii Convention Center had become frustrated with the expenses required to replace damaged parts and **corroded towers** in a short period of time, due to the **salt air environment** which destroys the towers at a much faster rate than the norm.

In addition, owners throughout this highly corrosive environments must spend funds to keep old towers coated to protect them.

At this point, it was time to look for an alternative, a cooling tower that had the resistance to all kinds of environments...



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IMPORTANCE OF MATERIALS

Selecting the appropriate materials for the cooling tower composition is of primary importance. This selection must consider the exposure of the material to the water, flow velocities, humidity and external conditions.

The quality of materials will affect the total cost of the tower, however, it is also important to consider the cost-benefit relationship, which includes transportation, field labor required, life span, etc.

The local sales team understood this and approached the convention center to discuss the benefits of REYMSA's structural engineered FRP (fiberglass) constructed Cooling Towers

REYMSA Cooling Towers are made of high grade fiberglass,

which has proven to be an excellent material against harsh water treatment chemicals and salt air. This heavy duty construction offers a **long service life, minimum maintenance and no water leaking problems.**

In addition to the **savings** achieved thanks to its great resistance and minimal maintenance, the Hawaii Convention Center will benefit from other characteristics of the REYMSA cooling towers, such as energy savings.

REYMSA cooling towers have **low energy consumption per ton**, since our towers exceed the minimum energy requirements of **ASHRAE Standard 90.1**.





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REPLACING OLD MODELS

With all of these benefits within reach, it was easy to seize the opportunity and replace the four old towers with **REYMSA modular cooling tower**. The 4-module RTGM cooling tower provides a capacity of **6,000 GPM** to satisfy the needs of the convention center.



By going to **FRP construction** the customers now have confidence in knowing they will experience significantly lower maintenance costs, eliminate the coating expenses for the life of the tower, and they will have a cooling tower with a **life expectancy of 30+ years**.



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Location: Hawaii

Tower Model: RTGM-1222115-D-4T2-L