



COOL CURRENTS

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Honolulu Seawater Air Conditioning

Aloha Valued Reader,

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Did you know that district cooling can be traced back to Ancient Rome, where the concept of supplying warm water to the Roman-style baths through a district heating system was invented?

You may also be interested in knowing that the Rockefeller Centre in New York City and the United States Capitol Buildings in Washington, D.C. were among the first buildings to take advantage of the large district cooling systems technology supplying chilled water in a closed-loop distribution systems already in the 1930's.

Since then, while seawater air conditioning (SWAC) is a new technology to Hawaii, it has been accepted, adopted, and continues to prove highly successful both on the mainland and in various parts of the world. Countries such as Canada, the Netherlands, Sweden, and Finland have achieved impressive economic and environmental results because of this technology. For more information and case studies, please [click here](#).

There is no doubt that the Honolulu Seawater Air Conditioning system will be a major contributor to achieving Hawaii's Renewable



Portfolio Standards energy goal and contribute to lowering of greenhouse gas emissions as well as reduce Hawaii's dependency on foreign oil. For additional information on how environmentally friendly and green this project is, read more on this in our feature with our own Frederic Berg below.

From all of us at HSWAC, we thank you for your continued support.



Welcome Aboard, One Waterfront Towers!

One Waterfront Towers, the landmark twin 45-story towers located across from Honolulu Harbor and Aloha Tower Marketplace near downtown Honolulu, has signed an agreement to utilize the company's seawater air conditioning cooling system.



Photo courtesy: One Waterfront Towers

"As one of the premier residential facilities in the state, we are proud to be leading the way in energy efficiency while reducing air conditioning costs, which currently represent more than a third of

SMA Permit Granted.

HSWAC was granted a Special Management Area (SMA) use Approval and Shoreline Setback Variance by the Department of Business, Economic Development & Tourism (DBEDT) Office of Planning.

The SMA permit provides guidance through State law for managing coastal development and allows HSWAC to construct a pumping and cooling station, as well as install underground piping in the Kakaako area.

"The rigorous permit process was an important step in ensuring all stakeholders that the project is moving forward correctly. Being granted this project is a major milestone in the construction of this renewable energy project," said William Mahlum, president and CEO.



"We look forward to contributing to Hawaii's economic future while providing energy

our residents' electricity costs," said George Beavin, One Waterfront Towers Board of Director's President. "In addition to reducing our cooling costs, the seawater air conditioning cooling system will be easy to operate and maintain, and we will not have to fund money for future replacement of chillers or cooling towers."



John Horvath, One Waterfront Towers Resident Manager

The financial benefits to the AOA of One Waterfront Towers are substantial savings from the start. "With the HSWAC system, the residents of One Waterfront Towers can rest assured of stable cooling costs that are not subject to volatility of oil and ever-increasing energy prices," said John Horvath, One Waterfront Towers Resident Manager. Horvath continued, "The centralized operations are not only dependable and reliable, but also highly efficient. The district cooling system operation also provides us an opportunity to focus on other improvements of the building."

We are pleased to welcome One Waterfront Towers on board.

HCDA Easement Granted.

The Hawaii Community Development Authority (HCDA) approved to enter into a Grant of Non-Exclusive Easement and Construction Right of Entry in Kakaako makai lands for the underground piping of the project. This easement is a critical step in allowing Honolulu Seawater Air Conditioning to deliver chilled water to its customers.



"We think this renewable energy project is a very innovative contribution not only to the development of the Kakaako area, but

sustainability for the community. Honolulu will lead the way as one of the greenest downtowns in the United States," said Mahlum.

Legislative Briefing.

On January 13, HSWAC attended the 8th Annual HEPF legislative briefing held at the State Capitol.



More than 200 attendees participated in the briefing on *Issues and Controversies in Clean Energy* and a total of 39 clean energy experts and pacesetters hosted tables showing the growing clean energy industry in Hawaii.

In addition to the briefing, highlights also included updates on advancing clean energy in Hawaii.

In The News.

We have received a tremendous amount of press in the past months. For the latest updates, please [click here](#).

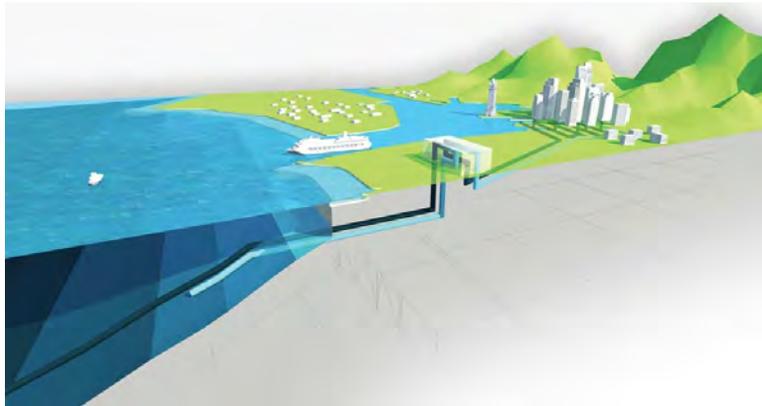


also for reducing the environmental footprint of the entire City of Honolulu," said Anthony Ching, Executive Director of HCDA.

"We look forward to the continued co-operation with the HCDA and other agencies to lead the way for a green Honolulu," said William Mahlum, CEO of Honolulu Seawater Air Conditioning.

RFP Process.

HSWAC is currently engaged with the local construction community to solicit proposals for all aspects of the project. HSWAC's contracting strategy has the project broken down into four major construction packages: The Cooling Station, the Underground Distribution Piping System, the Seawater Pipes, and Micro-Tunneling in Kakaako.



HSWAC is also currently soliciting proposals for the major equipment in the Cooling Station. We are negotiating final scope details on the Micro-Tunnel & Seawater Pipe packages and will soon be receiving responses on the remainder of the work.

With the vast majority of the engineering complete, HSWAC wishes to thank all of the local design and engineering firms, as well as its construction manager, who have assisted us in the development of this renewable energy project. Their expertise has been critical to our continued success.

Just How Green?

We all know the facts -- that the HSWAC district cooling project does numerous great things for the environment.

In just one year - saving more than 77 million kWh of electricity - the project also minimizes greenhouse gas emissions by approximately 84,000 tons of carbon dioxide by avoiding use of 178,000 barrels of oil for electricity production. Furthermore, district cooling not only decreases potable water usage by more than 260 million gallons but also sewage discharge of up to 84 million gallons.

Frederic Berg says, "You wouldn't pour one drop of oil in the ocean, yet with today's conventional air conditioning systems, thousands of tons of carbon emissions are released into what is equally important to our life -- the air."



Frederic Berg

We know that there are costs related to our environment, to our quality of life, and to a resource that is finite and quickly being depleted. In fact, to give you a better understanding of how much 178,000 barrels of oil is, imagine lining up the barrels from Aloha Tower to Diamond Head (a distance of about 5.5 miles) and creating a wall of more than 30 feet (!) high -- every year, over, and over, and over.

Yes, the numbers are staggering. Consequently however, the search for ways to use renewable energy has taken on a greater sense of urgency.

Equally important is the need to conserve and use energy wisely and efficiently. "At Honolulu Seawater Air Conditioning we are working passionately to provide an alternate renewable energy solution for downtown Honolulu that is efficient, effective, and that will both support and sustain generations in Hawaii for years to come," says Berg.

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