

DISTRICT COOLING
Hawaii's solution and cooling alternative to imported fossil fuels.
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Cool. Green. Clean.™



Aloha,

On behalf of our team at Honolulu Seawater Air Conditioning (HSWAC), a heartfelt "Mahalo!" for your continued interest in and support of the development of our Downtown Honolulu District Cooling System, and best wishes for a healthy and bountiful New Year!

As we turn our sights to the promise of 2018, we are pleased to share with you highlights of some of the more significant activities undertaken by our HSWAC Team over the past year. As always, we encourage you to contact us should you wish to learn more about HSWAC and its plans to reduce the Islands' dependence on imported fossil fuels by cooling Downtown Honolulu through the use of our Islands' deep, surrounding ocean waters.

Eric Masutomi
President and CEO
Honolulu Seawater Air Conditioning

**Governor David Ige on the pathway to
a clean energy future for Hawaii**

Out and About

2017 Lacy Veach Day of Discovery



The Lacy Veach Day of Discovery science event was held on Saturday October 28, 2017. Members of the HSWAC team helped educate students on the basic principles behind air conditioning, different ways to provide air conditioning, and how a District Cooling System works. Air conditioning is not an easy concept to grasp, so this event was equally challenging for the presenters to break it down into simple demonstrations that made sense to the kids. In the end, the students were able to see how a sustainable District Cooling System can help the State of Hawaii reach its 100% renewable energy goals.

2017 HPU's 3rd Annual



"We want hydropower, **sea water air conditioning**, solar and wind energy, biomass and the fullest possible use of our waste streams...We want the brainpower and the imagination of the world to continue to come here. They can help us find our way to 100 percent renewable energy sources for electricity, and in doing so, help the world find its way to 100 percent. Let us take the billions we export for fossil fuels, spend it here, and then export the energy systems we develop."

~ [Governor David Ige, State of the State Address, January 22, 2018](#)

State of Hawaii Buildings to Reduce Electricity Requirements



At Governor David Ige's direction, DAGS has been exploring ways to support the State's 100 percent renewable energy goals and the reduction of greenhouse gas emissions.

"Using water largely chilled by the ocean instead of our own electric chillers for our air conditioning needs should result in significant environmental benefits at no additional cost to the taxpayer," said Roderick Becker, Comptroller.

The preliminary agreement demonstrates the state's commitment to expand renewable energy use and reduce greenhouse gas emissions. In 2015, Gov. Ige signed into law the aggressive clean energy goal of generating 100 percent of electricity sales from renewable resources by 2045. This year, Gov. Ige also signed [SB 559 into law \(Act 032\)](#), making Hawai'i the first state to enact legislation that implements portions of the Paris climate agreement.



Honolulu Seawater Air Conditioning participated in the Hawaii Pacific University's 3rd Annual Sustainability Fair at Aloha Tower Marketplace on November 1, 2017.

In The News

For the latest updates on the press we have received in the past months, please [click here](#).



Should you or your organization like to learn more about HSWAC's Downtown Honolulu District Cooling system or about Seawater Air Conditioning in general from one of our team members, please do not hesitate to contact us here to arrange for one of the HSWAC team members to speak at your next event.



University of Hawaii Medical School to Utilize HSWAC Chilled Water Service



On April 20, 2017, the UH Board of Regents authorized and approved the UH Administration to enter into an Service Agreement with HSWAC to provide a chilled water for air-conditioning purposes at the John A. Burns School of Medicine (JABSOM). Specific benefits for the University will be:

- Eliminate potable water usage in cooling tower operation by 14,000,000 gallons a year, 50% of the total campus usage.
- Eliminate sewage discharge from cooling tower operation by 1,300,000 gallons a year, 34% of the total campus usage.
- Eliminate 11,400,000 lbs. of carbon dioxide emissions a year.
- Eliminate 6,900,000 kWh of electrical consumption a year, 50% of the total campus usage, equivalent to a 4.8 Mega Watt solar photovoltaic system.
- 24/7/365 chilled water service.
- Simplify chilled water supply, outsource chilled water production to a dedicated utility provider.
- Guaranteed rates for chilled water long term which allows JABSOM to better manage its budget and operational costs.
- Eliminate future need for significant capital costs to be invested in expensive chilled water production equipment. These funds can be reallocated to other critical capital projects.

This agreement will directly contribute 3.5% towards the University of Hawaii's [Net-Zero Energy goal](#) through the elimination of the electricity currently consumed to produced chilled water on site at JABSOM. This Net-Zero Energy goal across all campuses by 2035, was signed into law by Governor David Ige (Act 99) in 2015.

Contributing to Greater Goals

With the signing of the State of Hawaii Senate Bill 559 on June 6, 2017, Hawaii adopted the goals of the Paris Agreement to reduce greenhouse gas emissions.

See how HSWAC helps reach this goal.

For more information, visit www.honoluluswac.com



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will use the energy in the energy in seawater to displace 77,000,000 kW-hrs of electricity. This is equivalent to the following annual measures:

- Removing the emissions of over 16,300 cars
- Dedicating over 89,750 acres of US forests to sequester carbon dioxide
- Preventing 178,000 barrels of oil from being burned for energy

Utilizing HSWAC's efficient, reliable and sustainable chilled water service provides tangible progress towards reducing greenhouse gas emissions and accomplishing Paris Agreement goals.

Development Progress

In the past several months HSWAC has obtained the following permits from the Federal and State Governments, thus furthering our permitting process to completion. These include:

- Water Quality Certification for the construction of the system
- National Pollution Discharge Elimination System (NPDES) needed for operation of the system.

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