

附錄一

亞太潔能會議 胡志強 城市外交 達陣

介紹台中潔能現況與努力 1.7億商機吸引各國詢問 幽默口才贏得全體起立鼓掌

通訊記者高振華

檳香山報導

在檳香山舉辦的亞太潔能會議，15日是第三天，台灣台中市長胡志強應主辦單位邀請，於當日上午以貴賓身分擔任主講人，介紹台中市在潔能方面的努力與商機。胡志強利用約30分鐘時間，以幽默不著痕跡的方式將

台中市推銷給在場人士，演講後數百位出席者全體起立鼓掌，中外媒體及與會者紛紛於會後上前致意及採訪有關台中市在低碳以及開發公共設施等方面的商機。

胡志強當天由駐檳香山台北經文處長章文樞及秘書長傅儀與翁永輝等人陪同下，於上午9時到場。

事前胡志強曾表示，此行出席亞太潔能會議，主要希望藉由台中市獲得中華民國環保署50億台幣（約1.7億美元）的研究費，相信這項商機會吸引與會各國代表興趣，為台中引入先進環保科技。

演講中，胡志強首先提到四年前出席在倫敦舉辦的全球城市領導人會議中，台中市在參與此會40個城市中，獲得文藝與文化首獎，但頒獎時發現許多人沒有聽說過台中，只知到台北、高雄，當時他馬上向眾人介紹台中地理位置以及台中的風土人情。

他表示，現在台中已成為許多外商投資的最佳地點。目前台中市科技園區已客滿，該市正在趕建開發新科技區，他還將園區平面圖打在螢幕上便於出席者了解。

台中市政府正爭取2017年東亞運動會的主辦權，該市並在尋找「綠巨人」，希望在比賽時也將「減碳」理想付諸於運動場上。10年前他接任市長時，台中市還沒有下水道污水處理系統，今日台中污水處理已高達80%，他並計畫在市中心興建一座環保公園，裡面有一座高300呎的環保鐵塔，監控市區環境污染指數。胡志強在演講中並分別就台中近年來在財務、環保以及住屋方面的努力與成效做了詳

盡報告。結尾時他表示，現在主要的目標是做好大台中的建設，並強調，「今日不做，明日後悔！」

演講結束後全場起立鼓掌不停，胡志強特別帶著夫人邵曉鈴到台前向眾人致謝。胡志強此次出席亞太潔能會議三天，全程由駐檳香山台北經文處官員陪同，期間曾拜會夏威夷州長與檳香山市長。胡志強表示，這次會議的行程，以及和與會人士的會面都有良好結果，成功達到城市外交使命。



台中市長胡志強在2011亞太潔能會議上演講。
(通訊記者高振華/攝影)



僑界設宴 胡志強推銷台中

參加亞太潔能會議 強調要打造低碳模範城市 籲僑胞返國觀光投資

通訊記者高振華

檳香山報導

來夏威夷參加亞太潔能會議(2011 Asia Pacific Clean Energy Summit & Expo)的台中市長胡志強伉儷及該市代表團，13日晚間出席由夏威夷僑界僑團聯合在檳香山聚東軒酒樓的歡迎晚宴，胡志強向僑胞說明此行目的，簡介台中市現況並邀請僑胞返國觀光及投資。

甫於去年獲選連任大台中市長的胡志強指出，此次國內環保署在全國各城市徵選低碳示範城市時，台中市由後段班脫穎而出，被環保署選為低碳城市之一，並獲50億元新台幣研發經費。他決定利用此機會推廣大台中市，希望將台中建設成世界級低碳模範城市，一提到低碳就想到台灣，以一國城市改變台灣。這項經費也引起國際重視，獲亞太潔能會議主辦單位邀請後，胡志強立即決定率團出席，希望與國際接軌推動台中市與世界其他城市在低碳領域競爭。

夏州替代能源技術先進

夏威夷的替代能源如太陽能、海流、風力等，台中類似資源也很多。技術也先進，但夏威夷有華僑得軍方支持與合作，讓夏州在這方面的領先程度及潛力不可忽視。胡志強向夏威夷州長表達希望能借用這些技

術，幫助台中達成低碳目標。此次也由隨團的台中環保局長與夏州及檳市政府相關部門探討未來合作意向。

對於台灣部分媒體曾指台中市在治安方面民調下降，胡志強指出，初期台中市民調是很低，排名第23位，在他努力衝刺下，先將民調拉到15名，直到目前的第7名。剛接任市長時，台中市府預算為赤字，如今市府預算已有盈餘。胡志強強調，要利用各種機會，包含這次亞太潔能會議上，將台中市推廣出去，走向世界。

僑胞到台中定親自接待

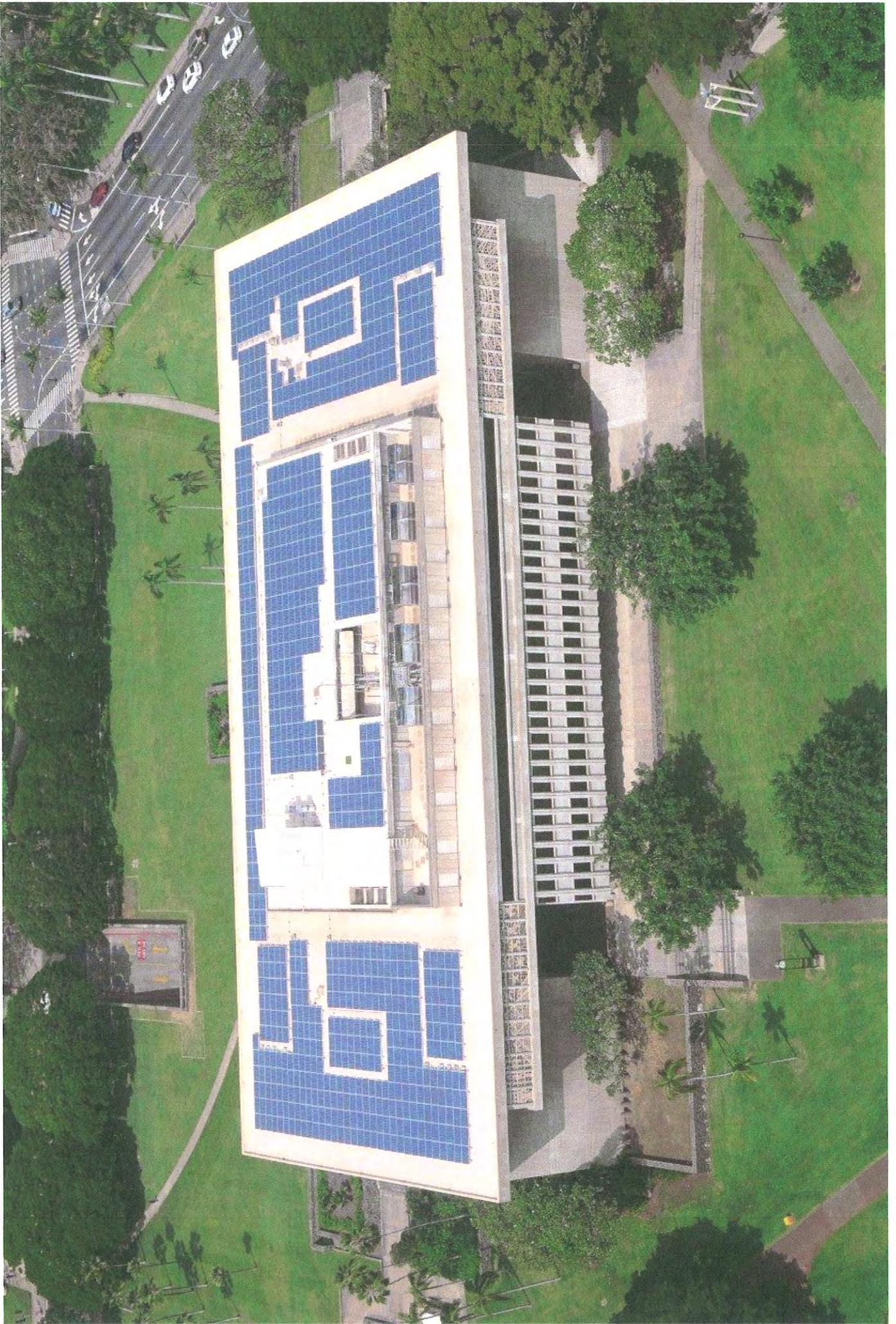
胡志強在會場上也不忘推銷台中，任內經常接待來自世界各地的台灣，許多台商事後都回台中投資設廠，至今外資在台中的投資總金額達1000億美元，他呼籲僑胞到台中參觀，他若有空一定會親自接待。胡志強還帶了幾箱台中特產太陽餅，送給在場僑胞。胡志強夫人邵曉鈴也間接在場備餐。胡志強並在經文處長章文樞處長陪同下至各桌敬酒，僑胞爭相與胡志強合影，讓晚宴氣氛升到極致。

宴會由夏威夷台灣商會發起，參與歡迎晚宴的貴賓還有僑務委員趙光斗、楊榮發、僑務顧問蔡維如、僑務諮詢顧問小雲、許學如、社團到會光臨協會、華人聯誼會的代表及新台僑會長許應和和郭宏光等。



胡台中市長胡志強伉儷在晚宴聯誼的活動上向僑胞問好。
(通訊記者高振華/攝影)

附錄二

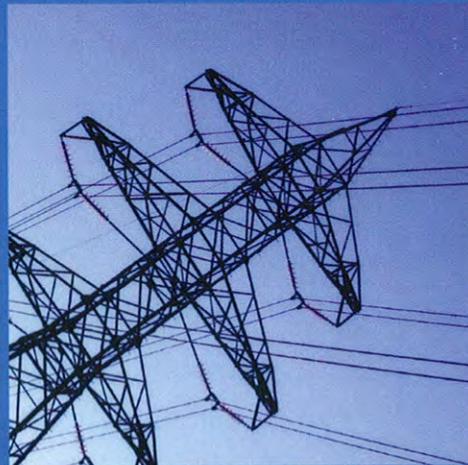


附錄三

2011 Asia Pacific Clean Energy Summit and Expo

September 13-15, 2011
HAWAII CONVENTION CENTER
HONOLULU, HAWAII

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The WIND ...

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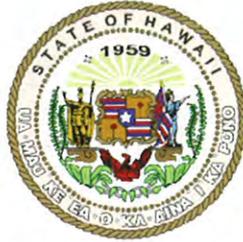
Hawaii's most important economic enterprise is to pursue energy independence by building a clean energy economy and reaching 70% clean energy by 2030.

DBEDT's State Energy Office's mission is to act as a catalyst for creating efficiency measures, renewable energy resources, transportation initiatives, and progressive policies that lead to green jobs and investments in Hawaii's economy.

www.hawaii-cleanenergyinitiative.org



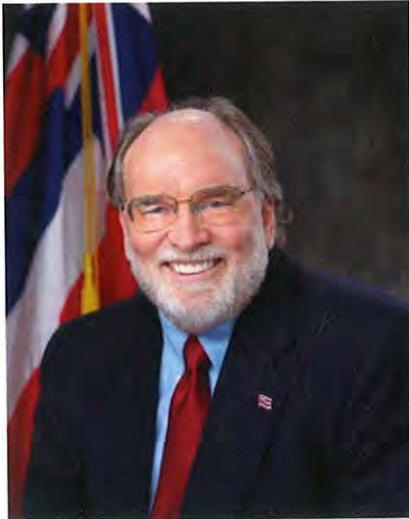
Hawai'i Powered
Hawai'i Clean Energy Initiative



Special Message from Governor Neil Abercrombie
Presented

In Recognition of the Asia Pacific Clean Energy Summit

September 13, 2011



On behalf of the people of Hawai'i, *aloha* and welcome to the attendees of the third annual "Asia Pacific Clean Energy Summit and Expo."

This year's event represents Hawaii's strong commitment to fundamentally change its energy future. We are excited to showcase Hawaii's diverse natural resources, our collaborative approach, and the clean technologies that are being developed in our islands to achieve our aggressive goal of 70% clean energy by 2030.

Over the next three days attendees from many nations will have the opportunity to exchange ideas and develop partnerships with global corporations, start-ups, investors, policy makers, and utilities involved in clean energy transformation.

This year's program features more than 195 plenary and panel speakers from across the globe who will present incredible insights on the future of clean energy. The 38 different panel discussions supporting this year's program will focus on building a clean energy economy by accelerating the use of renewable energy resources; financing and incentivizing energy efficiency; growing the use of alternative fuel vehicles and infrastructure; developing public policies; and building workforce training programs. Clean energy will be the cornerstone of Hawaii's economy for generations. It will play an essential role in protecting our unique island culture, and preserving our natural resources in Hawaii and the Asia-Pacific region.

To all the speakers and participants who have come from near and far, please accept my gratitude for joining us and making this Summit and Expo a great success. *Mahalo* for actively participating in building a clean energy economy, and positioning Hawai'i to be a global model for clean energy.

Neil Abercrombie

NEIL ABERCROMBIE

Governor, State of Hawai'i

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2011 Asia Pacific Clean Energy Summit and Expo

September 13-15, 2011 • Honolulu, Hawai'i
HAWAII CONVENTION CENTER

Registration and Badge Pickup

Tuesday, September 13, 7am-6pm
Wednesday, September 14, 7am-6pm

Thursday, September 15, 7:30am-12pm

Public Bus Transportation ("The Bus")

Public transportation to the Hawai'i Convention Center from the airport and all parts of O'ahu is available on "The Bus". For information on routes, times and fares, call (808) 848-5555 or visit their web site at www.thebus.org.

Parking

On-site vehicle parking is available at the Hawai'i Convention Center. The parking garage is located on the 2nd floor of the facility and the entrance is located on Kalākaua Avenue. The garage can accommodate 690 vehicles and the maximum vehicle height is 8'11". ADA accessible parking is available in Row A of the garage. Parking is allowed during business/event hours only. Our parking lot opens one hour before and closes one hour after an event. Overnight parking is not allowed. The daily parking rate is \$5.00 per entry. If you exit within 30 minutes of entering the garage, there is no charge for parking. Attendees and exhibitors who wish to have unlimited in and out privileges during normal garage hours may purchase a parking card at the Parking Cashier booth for \$35.00. Cards are valid for the duration of your event and may be purchased from our Security Department (Ph. 808-943-3000). Exhibitors in standard sized vehicles should park in Row F for unloading and loading and freight elevator access. Exhibitors with oversized vehicles are required to make a dock reservation in advance by calling (808) 943-3018.

Hawai'i Convention Center

1801 Kalākaua Avenue
Honolulu, Hawai'i 96815, U.S.A.
Phone: (808) 943-3500
Fax: (808) 943-3559

Summit Hotels

Hawai'i Prince Hotel Waikiki & Golf Club

100 Holomoana Street
Honolulu, Hawai'i 96815
Tel: 808-956-1111
Tel: 888-9-PRINCE (Toll-free)
Fax: 808-946-0811
www.princeresortshawaii.com/hawaii-prince-hotel.php

Ala Moana Hotel

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Tel: 800-367-6025
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Tel: 800-446-8990
(Toll-free Maui, Kauai, Big Island of Hawai'i)
Fax: 808-944-6839
www.alamoanahotel.com

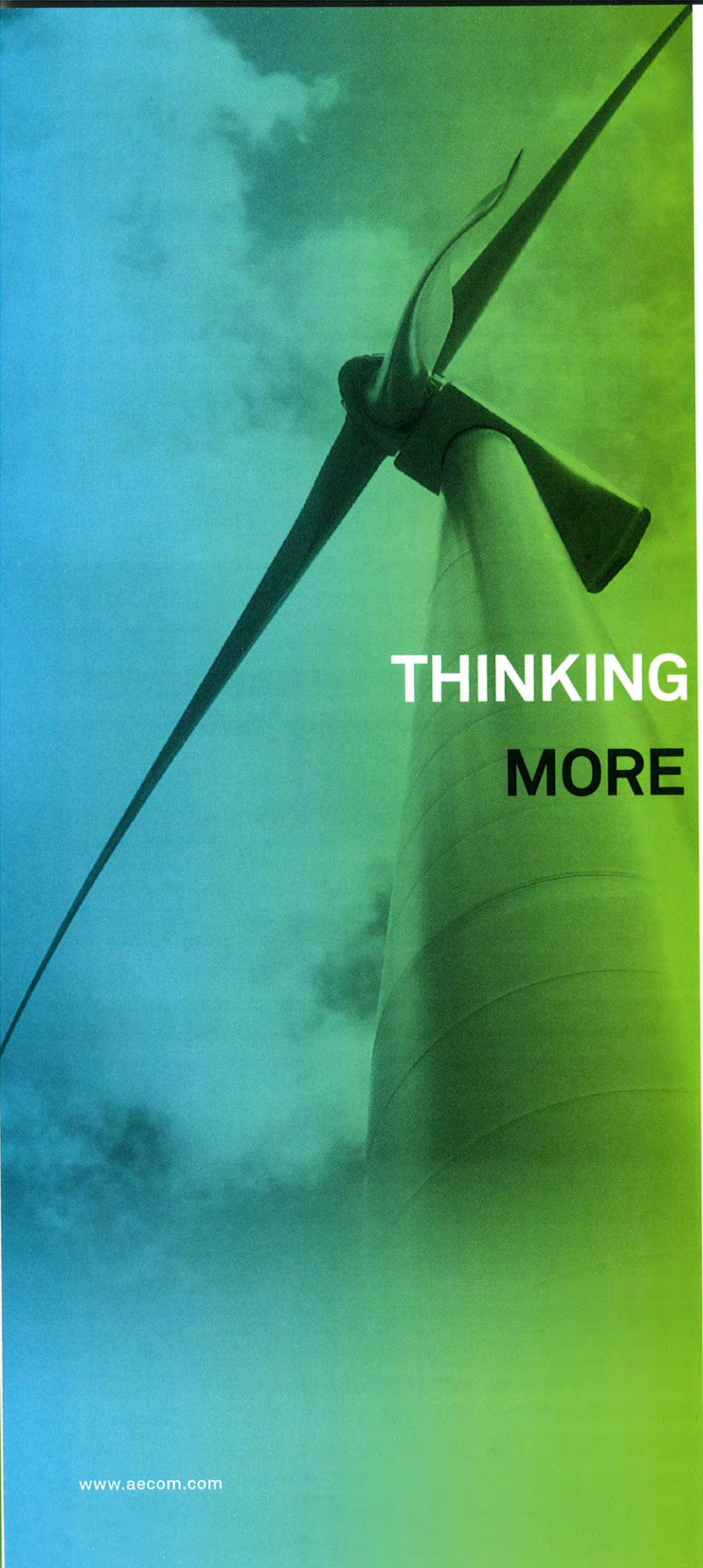
TechConnect, a global technology outreach and development organization, manages the 2011 Asia Pacific Clean Energy Summit and Expo. We are dedicated to locating the world's most promising advanced technologies and assisting in the development of ecosystems focused on accelerating technology commercialization from lab to market. TechConnect produces conferences and publications founded upon the action of matching emerging technology with corporate and investment development partners through peer-review, mentorship and direct corporate-need to technology-solution matchmaking programs. With extensive knowledge in industry, academia, and business development, TechConnect brings only the best ideas and companies to its audience through its publications, events, and outreach activities. TechConnect is headquartered in Cambridge, Massachusetts, with offices in Texas, California, and Switzerland. www.techconnect.org

Program Highlights

- **Expo:** Presenting progressive renewable energy concepts, products, and services.
- **Defense Energy Technology Challenge:** Meet the top defense-targeted clean energy solution companies and network with the energy leadership of the US Armed Forces and the Defense Industry.
- **Speakers & Panels:** A roster of world-renown speakers will share their diverse insights into the implications of advanced renewable energy technologies along with cutting-edge projects, while offering their perspectives on policy issues, and investment and financing opportunities, and more...

Program Day-At-A-Glance

Tracks	Efficiency/Use/ Sustainability	Infrastructure	Renewable Energy	Policy & Economic Development	Policy & Economic Development	Military
TUESDAY, September 13, 2011 - Asia Pacific Clean Energy Summit						
8:30 AM	Keynotes: Governor Neil Abercrombie, State of Hawai'i; Video Remarks from Senator Daniel K. Inouye; R. James Woolsey, Former Director, CIA; George Ka'iiliwai III, Director, Resources and Assessment (J8), United States Pacific Command - <i>Kalakaua Ballroom - 4th Floor</i>					
10:00 AM	Coffee & Networking - <i>Concourse</i>					
10:30 AM	The Energy-Water Nexus - <i>Room 317A</i>	Smart Grid - Adoption, Security & Management - <i>Room 314</i>	Biofuels: Developing a Supply Chain - <i>Room 312</i>	Hawai'i's Energy Entrepreneurs: Leaders Share Their Secrets - <i>Room 301B</i>	Role of Economic Development Boards in Renewable Energy Transformation in Hawai'i - <i>Room 301A</i>	DoD Service/COCOM Energy Programs - <i>Room 315</i>
12:00 PM	Lunch & Expo - <i>Lunch Kalakaua Ballroom 4th Floor, Expo Room 313ABC, O'ahu.</i> (Expo Hours: 12:00-4:30 PM)					
1:30 PM	Managing Limited Water & Land Resources - <i>Room 317A</i>	The Hawai'i Smart Grid - <i>Room 314</i>	Biofuels Bottom Line - Flying Toward Price Targets - <i>Room 312</i>	Funding for Disruptive Energy Innovation - <i>Room 301B</i>	Utility Acquisitions of Renewable Energy Projects - <i>Room 301A</i>	DoD Electric Grid Security - <i>Room 315</i>
3:00 PM	Coffee & Networking, Expo Hall - <i>Room 313ABC, O'ahu Ballroom</i>					
4:30 PM	Lighting - <i>Room 317A</i>	Undersea Transmission - <i>Room 314</i>		E-Tools to Accelerate the Siting and Permitting of RE Projects in Hawai'i - <i>Room 301B</i>	Energy as the Economic Growth Engine - <i>Room 301A</i>	Defense Energy Technology Challenge (Start 4:00pm) - <i>Room 315</i>
6:00 PM	CTSI Defense Energy Technology Challenge Showcase & Reception - <i>Room 316ABC, Maui</i>					
WEDNESDAY, September 14, 2011 - Asia Pacific Clean Energy Summit						
8:30 AM	Keynotes: Lt. Governor Brian Schatz, State of Hawai'i; Chris Myers, VP, International Business Development and Energy Markets, Lockheed Martin; Patricia Glaza, Executive Director/CEO, CTSI; Video Remarks from Congresswoman Mazie Hirono - <i>Kalakaua Ballroom - 4th Floor</i>					
10:00 AM	Coffee & Networking - <i>Concourse</i>					
10:30 AM	Net Zero Energy Communities, Homes & Buildings - <i>Room 317A</i>	Speed up, Scale Up: Potential of Electric Vehicles in a Clean Energy Community - <i>Room 314</i>	How to Get Even More Solar Electricity - <i>Room 312</i>	Foundation for Clean Energy Future - Policies, Strategies & Frameworks that Transform the Energy Market - <i>Room 301B</i>	Key Elements of a Successful Clean Energy Project: Venture, Project & Social Investor Perspectives - <i>Room 301A</i> Counties of Hawai'i: Sister City Summit - <i>Room 316A</i>	Defense Energy Solution Spotlights (Efficiency, Power, Storage) - <i>Room 315</i>
12:00 PM	Lunch, Sister City Signing Ceremony - <i>Kalakaua Ballroom 4th Floor</i>					
1:30 PM	High Performance Buildings - <i>Room 317A</i>	Advancing Sustainable Transportation in Hawai'i - <i>Room 314</i>	Wind Energy - Current & Near-Term Growth - <i>Room 312</i>	Greening the Workforce to Sustain the Clean Energy Industry - <i>Room 301B</i>	Sister Cities Clean Energy Panel - <i>Room 316A</i>	Defense Energy Solution Spotlights (Smart Grid, Biofuels) - <i>Room 315</i>
3:00 PM	Coffee & Networking, Expo Hall - <i>Room 313ABC, O'ahu Ballroom</i> (Expo Hours: 3:00-7:30 PM)					
4:00 PM	Measuring and Reporting Sustainability Achievements - <i>Room 317A</i>	Hydrogen - <i>Room 314</i>	Hydrokinetic & Ocean Thermal: Energy from Oceans & Rivers - <i>Room 312</i>	Permitting Renewable Energy Projects in Hawai'i & Beyond - <i>Room 301B</i> Measuring and Reporting Sustainability Achievements - <i>Room 317A</i>	Sister Cities APEC Update and Doing Business in China - <i>316A</i>	DoD-Doing Business with DLA Energy - <i>Room 315</i>
5:30 PM	Expo Reception - <i>Room 313ABC, O'ahu</i>					
THURSDAY, September 15, 2011 - Asia Pacific Clean Energy Summit						
9:00 AM	Keynotes: TJ Glauthier, President, TJG Energy Associates, LLC; Jason Hu, Mayor, Taichung City, Republic of China (Taiwan) - <i>Kalakaua Ballroom - 4th Floor</i>					
10:00 AM	Coffee & Networking - <i>Concourse</i>					
10:30 AM	Financing & Incentivizing Energy Efficiency - <i>Room 317A</i>	Waste-to-Energy and Bioconversion - <i>Room 314</i>	Heat From The Earth- Geothermal - <i>Room 312</i>		Driving Renewable Energy/Energy Efficiency (RE/EE) Through Community Engagement - <i>Room 301A</i>	DoD Renewable Energy Projects - <i>Room 315</i>



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Dr. David Hazlebeck, Program Manager, (858) 455-4586, David.Hazlebeck@ga.com
Dr. Amit Vasavada, Program Manager, (858) 455-2761, Amit.Vasavada@ga.com

Summit Program

Tuesday, September 13, 2011

- 8:30 AM **Welcome Ohi and National Anthem and Hawai'i Pono'i** **Kalakaua Ballroom - 4th Floor**
- 8:30 AM **Keynotes** **Kalakaua Ballroom - 4th Floor**
Governor Neil Abercrombie, State of Hawai'i; Video Remarks from **Senator Daniel K. Inouye**; **R. James Woolsey**, Former Director, Central Intelligence Agency; **George Ka'iiliwai III**, Director, Resources and Assessment (J8), United States Pacific Command
- 10:00 AM **Coffee & Networking** **Concourse**
- 10:30 AM **The Energy-Water Nexus** **Room 317A**
Panel will explore the relationship between energy and water, including the use of water in energy production, the use of energy for water-related systems, the use of renewable distributed energy to produce potable water, and quantifying energy savings through unique water conservation programs.
Session Chair: Jonathan Chin, State Energy Office
Moderator: Carolyn "Cat" Sawai, Honolulu Board of Water Supply
Speakers:
- **Mikhail Haramati**, California Public Utilities Commission
 - **Jordan Macknick**, National Renewable Energy Laboratory (NREL)
 - **H. Ray Starling**, SAIC
 - **Kurt Hanson**, Windesal
- 10:30 AM **Smart Grid - Adoption, Security & Management** **Room 314**
This panel will discuss challenges with the integration and management of Smart Grid technologies, including cyber defense issues.
Session Chair: Christian Whitney, State Energy Office
Moderator: Juan Torres, Sandia National Laboratory
Speakers:
- **Kevin Chock**, Chevron Energy Solutions Company
 - **Gregory Brainard**, Honeywell
 - **Rush Robinett III**, Sandia National Laboratory
 - **Shingo Kobayashi**, Cyber Defense Institute, Inc.
- 10:30 AM **Biofuels: Developing a Supply Chain** **Room 312**
Development of a new bioenergy industry requires relationship development and coordination among various stakeholders of the supply chain-landowners, feedstock growers, coproduct sales channels, biorefiners, fuel distributors, and end users. Logistics, management practices and feedstock combinations must be determined and optimized for certain end uses. Permitting, policies, and business models will be important to the adoption of biomass cultivation and conversion and to enable financial capital investment. This panel is a case study of how relationships are developed and partnering agreements made to address these challenges.
Session Chair: Cameron Black, State Energy Office
Moderator: Commander Joelle Simonpietri, US Pacific Command
Speakers:
- **James M. Andersen**, Honeywell/UOP
 - **Cecily Barnes**, Hawaiian Electric Company
 - **Warren Dominy**, Oceanic Institute
 - **Joel Matsunaga**, Hawai'i Bioenergy
 - **Michael Maughan**, General Atomics
 - **Pamela Serino**, Defense Logistics Agency - Energy



10:30 AM Hawaii's Energy Entrepreneurs: Technology Leaders Share Their SecretsRoom 301B

Hawai'i has a thriving and growing clean energy technology sector. Companies are developing smart grid technologies, solar collectors, ocean energy technology, fuel cells, algae for biofuels, and hundreds of other next-generation innovations – and not only developing the technologies, but commercializing them and selling them on a large scale. CEOs and leaders of some of Hawai'i's top clean tech companies will share how they brought innovations to market in Hawai'i and around the world, reveal the new products they are working on, and communicate their visions for what it will take to bring the industry to the next level.

Session Chair/Moderator: Dawn Lippert, Hawai'i Renewable Energy Development Venture

Speakers:

- **Pat Sullivan**, Oceanit
- **Derek Chang**, Referentia
- **Adelheid (Heidi) Kuehnle**, Kuehnle AgroSystems
- **Darren Kimura**, Sopogy
- **Bob King**, Pacific Biodiesel

10:30 AM Roles of the Economic Development Boards with Renewable Energy Transformation in Hawai'i. Room 301A

What assets do the economic development boards (EDB's/ EDO's) bring to the table to facilitate renewable energy transformation? Panelists will discuss the various areas that EDBs are contributing to growing the renewable energy sector. EDBs are on the ground developing trust and building healthy and vital communities through relationships across all sectors - an inclusive process. Identifying opportunities and challenges, facilitating conflict resolution with stakeholders. Strengthening the education pipeline for workforce development and "Green Job" readiness in RE projects. Panelists will review the Renewable Energy Projects identified in the Comprehensive Economic Development Strategy 2010 and the implementation of the Food and Energy Security Act.

Session Chair/Moderator: Mark McGuffie, Enterprise Honolulu

Speakers:

- **Leslie Wilkins**, Maui Economic Development Board
- **Jacqui Hoover**, Hawai'i Island Economic Development Board
- **Susan Tai Kaneko**, Kauai Economic Development Board
- **Mark McGuffie**, Enterprise Honolulu, the O'ahu Economic Development Board

10:30 AM DoD Service/COCOM Energy ProgramsRoom 315

The Department of Defense is faced with a variety of directives to improve energy efficiency, increase the use of renewables, and reduce greenhouse gas emissions. Learn how the US Army, Navy, Air Force and US Pacific Command are approaching the problem from a strategic perspective. The variety of programs, initiatives and methods are truly breathtaking in their scope and innovation. See why many people believe the DoD is leading our nation in developing a green economy.

Session Chair/Moderator: Chris Tindal, US Navy

Speaker:

- **Howard Killian**, US Army
- **Omar Mendoza**, US Air Force

12:00 PM Lunch & ExpoLunch Kalakaua Ballroom 4th Floor, Expo Room 313ABC, O'ahu. (Expo Hours: 12:00-4:30 PM)

1:30 PM Managing Limited Water & Land Resources Room 317A

The proper use of limited land and water is key to the long-term sustainability of all societies and the natural resources that support them. From policy development to project construction, forethought is needed to maximize both resource use and preservation. This panel discusses land and water management policies in Hawai'i, urban projects in Asia designed to optimize water resources, and other strategies to help ensure the future health of our planet.

Session Chairs: Jonathan Chin, State Energy Office; **Cameron Black**, State Energy Office

Moderator: Paul "Doc" Berry, Author/Educator

Speakers:

- **Morris Atta**, Hawai'i Department of Land and Natural Resources (DLNR), Land Division
- **Lenore Ohye**, DLNR, Commission on Water Resource Mgt (CWRM)
- **Alfredo Lee**, Agribusiness Development Corp
- **Greg Hurst**, AECOM
- **Jesse Souki**, State of Hawaii Office of Planning

Summit Program

Tuesday, September 13, 2011 *Continued*

1:30 PM **The Hawai'i Smart Grid** **Room 314**

Maui has a high level of variable distributed renewable energy and was selected to demonstrate how smart grid technologies can help solve specific and threatening island energy challenges with hopes of sharing the results with other island communities, electrical systems on the mainland, and countries world-wide.

The Maui Smart Grid Community Project in Kihei and the Smart Grid Project in Wailea plan to demonstrate consumer monitoring of real-time measurements of electricity use, decreasing consumer demand, improving integration of variable renewable energy resources, such as solar and wind power while minimizing curtailment issues and preparing the grid for widespread adoption of electric vehicles. The panelists are all actively involved in both smart grid projects on Maui and will address island concerns and new developments on Maui. At the completion of the projects, Maui will be able to provide insight and experience for evaluating the performance and cost effectiveness of deploying smart grid technologies around the world.

Session Chair: Christian Whitney, State Energy Office

Moderator: Leon Roose, Hawaiian Electric Company

Speakers:

- **Osamu Onodera**, New Energy and Industrial Technology Development Organization
- **Fumitoshi Emura**, Hitachi
- **Abbas Akhil**, Sandia National Laboratories
- **Gregory Brainard**, Honeywell
- **Marc Matsuura**, Hawaiian Electric Company

1:30 PM **Biofuels Bottom Line - Flying Toward Price Targets** **Room 312**

What are the major trends in 2011 and beyond moving biofuels toward prices competitive with petroleum? What kinds of deals are being signed by commercial airlines today? How is the supplier industry innovating in technology and business practice to reduce the cost for drop-in fuels? How is the new federal Renewable Fuel Standard (RFS2) shaping the market for fuels and competing values/uses of feedstock? And what is the \$510 million Navy-USDA-DOE Defense Production Act coinvestment plan all about? Come hear from leaders in the public and private arena on the latest for the biofuels bottom line.

Session Chair/Moderator: Commander Joelle Simonpietri, US Pacific Command

Speakers:

- **Bob Sturtz**, United Airlines
- **Jim Lane**, Biofuels Digest
- **Chris Tindal**, US Navy
- **Jon Scharingson**, Renewable Energy Group

1:30 PM **Funding for Disruptive Energy Innovations** **Room 301B**

The audience will learn about (1) funding opportunities for early stage energy innovations, (2) how to improve their chances for funding success, and (3) how to get started.

Session Chair/Moderator: Ian Kitajima, Oceanit

Speakers:

- **Representative Denny Coffman**, State of Hawai'i
- **Representative Marcus Oshiro**, State of Hawai'i
- **Richard Carlin**, Office of Naval Research
- **Robin Campaniano**, Ulupono Initiative
- **Ian Chan Hodges**, Responsible Markets, LLC
- **Grace Bochenek**, Tank Automotive Research, Development and Engineering Center (TARDEC), US Army
- **Senator Rosalyn Baker**, State of Hawai'i



1:30 PM Utility Acquisition of Renewable Energy Projects Room 301A

Selling renewable power or fuel to an electrical utility requires a firm grasp of the contracting and regulatory requirements, integration challenges, and relevant policies in place to ensure fairness in the market and stability to the grid. This panel focuses on utility processes to acquire renewable energy from independent producers and strategies to integrate renewable energy into the grid with minimal impact on power reliability. Panelists from both the seller/producer and buyer/utility perspectives will discuss keys to a successful power or fuel off-take agreement and factors influencing the long-term relationship between a utility, independent power/fuel producers, and the ratepayers.

Session Chairs: Estrella Seese, State Energy Office; Cameron Black, State Energy Office

Moderator: Jeff Mikulina, Blue Planet Foundation

Speakers:

- **Barry Nakamoto**, Hawaiian Electric Company
- **Brad Rockwell**, Kauai Island Utility Cooperative
- **Riley Saito**, SunPower Corporation
- **Scott Paul**, Hoku Corporation

1:30 PM DoD Electric Grid Security Room 315

A 2008 Defense Science Board Report titled, "More Fight - Less Fuel" determined "Almost complete dependence of military installations on a fragile and vulnerable commercial power grid and other critical national infrastructure places critical military and homeland defense missions at an unacceptably high risk of extended disruption." Learn about some of the efforts the DoD is taking to mitigate these vulnerabilities from some of the foremost experts in the field.

Session Chair/Moderator: Ross Roley, US Pacific Command Energy Office, SPIDERS JCTD

Speakers:

- **Juan Torres**, Sandia National Laboratories
- **Barrett Adams-Simmons**, Naval Systems Warfare Center Mission Assurance Division, US Navy
- **Tarek Abdallah**, US Army Corps of Engineers, Construction Engineering Research Laboratory
- **Ross Roley**, US Pacific Command Energy Office, SPIDERS JCTD

3:00 PM Coffee & Networking, Expo Hall Room 313ABC, O'ahu Ballroom

4:00 PM CTSI Defense Energy Technology Challenge Room 315

Energy security, independence, and troop safety are factors driving the US Department of Defense's investment in clean energy technologies. Organizations across the globe are developing innovative new solutions to meet the increasing demand from across the military. The 2011 CTSI Defense Energy Challenge identified 10 Top Solutions from over 230 applications to give visibility to new technologies that can make an impact. Organizations selected to present will have the opportunity in this session to receive direct feedback on their solution's potential from a panel of military, energy and agriculture officials.

Session Chair: Patricia Glaza, CTSI

Moderators: Steve McCain, K&L Gates; Patricia Glaza, CTSI

Panelists:

- **Grace Bochenek**, Tank Automotive Research, Development and Engineering Center (TARDEC)
- **William Parks**, Office of Electricity Delivery and Energy Reliability, US Department of Energy
- **Chris Tindal**, US Navy
- **Harold Sanborn**, US Army
- **Andrea Kinkaid**, DLA Energy
- **Joelle Simonpietri**, US Pacific Command
- **William Hagy III**, USDA
- **Omar Mendoza**, US Air Force

- 4:00** National University of Singapore – Transportation
- 4:12** ZeaChem – Biofuel
- 4:24** California Energy and Power – Renewable Energy
- 4:36** Semptra Energy – Renewable Energy
- 4:48** Ener-G-Rotors – Waste Heat Capture

- 5:00** Nextek Power Systems – Smart Grid
- 5:12** Seeo – Portable Energy Systems
- 5:24** LanzaTech – Biofuels
- 5:36** Thermal Conservation Technologies – Transportation
- 5:48** LaserMotive – Wireless Power Delivery

Summit Program

Tuesday, September 13, 2011 *Continued*

- 4:30 PM** **Lighting** **Room 317A**
Hear about the current state of lighting as well as the latest advancements in lighting technology, application, the largest LED project in Hawai'i, and a case study featuring the newest in lighting technology.
Session Chairs: **Gail Suzuki-Jones**, State Energy Office; **Jonathan Chin**, State Energy Office
Moderator: **Howard Wiig**, State Energy Office
Speakers:
- **Duane Ashimine**, Energy Industries
 - **Alika Ferreira**, Pono Energy Solutions
 - **Jeff McCullough**, Pacific Northwest National Laboratory
 - **Kimberly Polkinhorn**, Group 70 International
 - **Ron Thiel**, County of Hawai'i
 - **Sean Sugai**, Ronald NS Ho & Associates
- 4:30 PM** **Undersea Transmission** **Room 314**
Undersea cable systems have been installed throughout the world where electric energy must be delivered beyond major bodies of water. Such cable systems have also been installed to interconnect separated or isolated island grids to expand service as well as increase reliability, transmit established bulk power with price and supply diversity benefits, and transmit offshore wind; in some cases, pushing the frontiers of transmission project business models and regulatory paradigms. This panel includes practical legal, financial, and regulatory experience in transmission project development. Speakers will present case studies around real-life transmission projects and discuss issues of interest in the US and Pacific regions.
Session Chairs: **Maria Tome**, State Energy Office; **Gerald Sumida**, Carlsmith Ball
Moderator: **Gerald Sumida**, Carlsmith Ball
Speakers:
- **Bill Campbell**, Gibson, Dunn & Crutcher
 - **Edward Krapels**, Anbaric
 - **Roberto Simon**, Americas at Societe Generale
- 4:30 PM** **E-Tools to Accelerate the Siting and Permitting of Renewable Energy Projects in Hawai'i** **Room 301B**
To meet their clean energy goals, many governments have placed a priority on the permitting and siting of renewable energy projects. This panel showcases the tools and programs currently available or under development to facilitate the siting and permitting of renewable energy projects. Existing tools and those under development can serve as a model for all jurisdictions interested in developing similar programs.
Session Chair/Moderator: **Cameron Black**, State Energy Office
Speakers:
- **Reshawn Fields**, PB Americas
 - **Gary Gill**, Hawai'i Department of Health, Environmental Health Administration
 - **Scott Turn**, University of Hawai'i, Hawai'i Natural Energy Institute
 - **Joseph Brakohiapa**, Clean Power Finance
 - **Amgad Elgowainy**, Argonne National Laboratory
 - **Jason Bunker**, Windsor Solutions



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4:30 PM Energy as the Economic Growth Engine Room 301A

The nation's energy policies have positioned the United States to be at the forefront of global clean tech advancement. President Obama has stressed that "the nation that leads the clean energy economy will be the nation that leads the global economy." Energy leadership will not only lead to the creation of new jobs within a burgeoning and dynamic sector, but it will be the fundamental backbone that drives continued economic growth and expansion. Cases illustrating this on a local and US regional level, as well as around the Asia-Pacific region perspective, will be highlighted by key energy leaders, managers, and researchers who have extensive backgrounds in utility management, renewable energy and energy efficiency, and energy economics.

Session Chair/Moderator: Estrella Seese, State Energy Office

Speakers:

- **Ben Taube**, Global Cleantech Cluster Association
- **Constance (Connie) Lau**, Hawaiian Electric Industries, Inc.
- **Senator Carol Fukunaga**, State of Hawai'i
- **Governor George Ariyoshi** (former)
- **Mayor Billy Kenoi**, Hawai'i County

6:00 PM CTSI Defense Energy Technology Challenge Showcase & Reception Room 316ABC, Maui

Wednesday, September 14, 2011

8:30 AM Keynotes Kalakaua Ballroom - 4th Floor

Lt. Governor Brian Schatz, State of Hawai'i; **Chris Myers**, Vice President, International Business Development and Energy Markets, Lockheed Martin; **Patricia Glaza**, Executive Director/CEO, CTSI; Video Remarks from **Congresswoman Mazie Hirono**

10:00 AM Coffee & Networking Concourse

10:30 AM Net Zero Energy Communities, Homes and Buildings Room 317A

There are communities in Hawai'i and other parts of the world that are creating net zero energy communities, buildings and homes. The panelists will cover a range of projects from communities to homes that create their own power on-site. Case study examples that have been constructed from some of the top developers and builders on this panel will demonstrate the opportunities, challenges and design approaches to achieve net zero energy.

Session Chairs: Gail Suzuki-Jones, State Energy Office; **Jonathan Chin**, State Energy Office

Moderator: Carilyn Shon, State Energy Office

Speakers:

- **Krista Sprenger**, Lend Lease
- **Jon Wallenstrom**, Forest City Hawai'i
- **McKibbin Mist**, Gentry Builders
- **Daniel Sandomire**, Armstrong Development

10:30 AM Speed Up, Scale Up: Potential of Electric Vehicles in a Clean Energy Community Room 314

The panel discussion will focus on helping Hawai'i plan and strategize for a comprehensive system integration of plug-in vehicles and charge equipment into the State's overall clean energy development. Panelists will provide national and international examples of integrated EV technologies and systems that can be used to advance clean energy development in Hawai'i. Projects such as integrating vehicles with home energy and renewable grid management systems, developing an efficient and comprehensive regional electric vehicle supply equipment network, emerging vehicle technologies, and the role of fast charging will be discussed.

Session Chairs: Margaret Larson, State Energy Office; **Ken Kelly**, NREL

Moderator: Dave Rolf, Hawai'i Auto Dealers Association

Speakers:

- **Kristin Hensel**, Aerovironment
- **Stella Li**, BYD, China
- **Fumitoshi (Frank) Emura**, Hitachi
- **Chris Colquitt**, General Motors

Summit Program

Wednesday, September 14, 2011 *Continued*

10:30 AM **How to Get Even More Solar Electricity** **Room 312**

An exploration of the barriers which are keeping photovoltaics from achieving their maximum practical potential in Hawai'i, and a suggestion of possible solutions. Representatives of Hawai'i's solar industry, researchers, utilities and regulators will discuss technical and policy issues affecting the ability of solar electricity to significantly contribute to Hawai'i's renewable portfolio.

Session Chairs: **Andrea Gill**, State Energy Office; **John Myrdal**, State Energy Office

Moderator: **Andrea Gill**, State Energy Office

Speakers:

- **Mike Yamane**, Kaula'i Island Utility Cooperative
- **Scott Seu**, Hawaiian Electric Company
- **Doug Bath**, ProVision Solar, Inc.
- **Mitch Domhowski**, Sempra Generation
- **Jerrold Schreck**, Hoku Solar
- **Richard Rocheleau**, Hawai'i Natural Energy Institute

10:30 AM **Foundation for Clean Energy Future - Policies, Strategies, and Frameworks That Transform the Energy Market** **Room 301B**

State and federal policy makers are leading a hard charge towards transforming the energy market through clean energy policies. Discussions about the forthcoming issues and challenges on a state and national level, the role of government in providing the requisite support and incentives, and insights and strategies into developing the most appropriate policy frameworks for a clean energy future will be the focal point of this distinguished panel of speakers.

Session Chair: **Estrella Seese**, State Energy Office

Moderator: **Doug Codiga**, Schlack Ito, LLC

Speakers:

- **Robbie Alm**, Hawaiian Electric Company, Inc.
- **Mina Morita**, Public Utilities Commission
- **Senator Mike Gabbard**, State of Hawai'i

10:30 AM **Key Elements of a Successful Clean Energy Project: Venture, Project and Social Investor Perspectives - Room 301A**

Different investors look at the risks and benefits of a clean energy project from different perspectives. Panelists representing the venture capital perspective, the project finance perspective and the social investor perspective will discuss the key elements they look for in a successful clean energy project.

Session Chair: **Karl Fooks**, Hawai'i Strategic Development Corporation

Moderator: **Jim Kimo Storke**, KAS Consulting Group

Timothy Ome, Synergy Advisors LLC (Venture Capital)

Scott Foster, Hannon Armstrong (Project Finance)

Kyle Datta, Ulupono Initiative (Social Investor)

Robert Springer, National Renewable Energy Laboratory (Federal Government)

10:30 AM **Counties of Hawai'i: Sister City Summit 2011** **Room 316A**

Presentation by all participating cities on their economic programs and opportunities

Session Chairs: **Dean Masuno**, Office of Councilmember Tulsi Gabbard; **Ann Chung**, City & County of Honolulu

Co-Moderators: **Councilmember Stanley Chang**, Honolulu City Council; **Ann Chung**, Director Office of Economic Development, City & County of Honolulu



- 10:30 AM** **Defense Energy Solution Spotlights (Efficiency, Power, Storage)** **Room 315**
 Finalists from the Defense Energy Technology Challenge present the next generation of energy technology solutions targeted for military adoption.
Session Chair: Patti Glaza, CTSI
10:30 Opalux, Inc. (Building Efficiency)
10:45 IMET Corp. (Efficiency – Waste Water)
11:00 Infinia Corp. (Renewable Power)
11:15 Ideal Power Converters (Power Electronics)
11:30 EnerVault Corp. (Grid-Scale Energy Storage)
11:45 Gravity Power (Grid-Scale Energy Storage)
- 12:00 PM** **Lunch, Sister City Signing Ceremony** **Kalaka'ua Ballroom 4th Floor**
- 1:30 PM** **High Performance Buildings** **Room 317A**
 What does building and operating green and high performance buildings entail? There are high performance building programs and projects nationally and internationally that continue to perform well and win prestigious and well deserved awards. Hear from the panelists about the opportunities and design approaches to creating, operating and maintaining high performance buildings in Hawai'i and beyond.
Session Chairs: Gail Suzuki-Jones, State Energy Office; Jonathan Chin, State Energy Office
Moderator: Gail Suzuki-Jones, State Energy Office
Speakers:
- **Panama Bartholomy**, California Energy Commission
 - **Elaine Aye**, Green Building Services
 - **Harzali Hashim**, Moana Surfrider – Westin Resort
- 1:30 PM** **Advancing Sustainable Transportation in Hawai'i** **Room 314**
 The panel will focus on accelerating the development and deployment of clean and sustainable transportation in Hawai'i. Topics may include integrated, multi-modal solutions, smarter community design, mass transit, bicycling and bike share, car share and other means of reducing vehicle miles traveled. This is an opportunity for panelists to showcase how integrating efficient multi-modal transportation networks have the potential to bring about energy savings and transform Hawai'i's ground transportation sector to become less dependent on petroleum.
Session Chairs: Margaret Larson, State Energy Office; Ken Kelley, NREL
Moderator: Jeff Mikulina, Blue Planet Foundation
Speakers:
- **David Atkin**, Parsons Brinckerhoff
 - **Paul Kopel**, Enterprise Rental Car
 - **Terrance Ware**, City & County of Honolulu
 - **Fumitoshi (Frank) Emura**, Hitachi
- 1:30 PM** **Wind Energy: Current and Near-Term Growth** **Room 312**
 The panel will focus on four (4) topic areas: (1) Wind & Wildlife; (2) Wind Resource Assessment; (3) Community & Distributed Wind; (4) Present & Near-Term Utility Scale Wind. Representatives from the wind industry, government, and scientific community will discuss technical, environmental and permitting issues affecting the ability of wind energy to significantly contribute to Hawai'i's renewable portfolio.
Session Chair/Moderator: Malama Minn, State Energy Office
Speakers:
- **Gregory Price**, Northern Power Systems
 - **Scott Fretz**, State of Hawai'i, Division of Forestry and Wildlife
 - **Greg Spencer**, Senior Biologist, First Wind
 - **Robert Springer**, National Renewable Energy Laboratory

Summit Program

Wednesday, September 14, 2011 *Continued*

- 1:30 PM Greening the Workforce to Sustain the Clean Energy Industry Room 301B**
As capital investments transcend national boundaries in search of the most innovative ideas and technologies, so too will human capital. Labor markets are no longer bound by geography, as businesses operate on global platforms that pursue the best talent available and as workers adopt more flexible work arrangements. Ambitious clean energy mandates around the world call on innovations in product design, development and delivery, but can our workforce keep pace with the technology? Are local communities developing the kind of workers that businesses need? Hear from a panel of experts representing varied perspectives on what green workforce development means for the state of Hawai'i and beyond.
Session Chairs: Sharon Moriwaki, University of Hawai'i; Jeff Matsu, State Department of Labor and Industrial Relations
Moderator: Dwight Takamine, Hawai'i Department of Labor & Industrial Relations
Speakers:
- Jeff Matsu, Hawai'i Green Jobs Initiative
 - Darren Kimura, Sopogy
 - Leslie Wilkins, Maui Economic Development Board
 - Stephen Meder, University of Hawai'i
- 1:30 PM Sister Cities Clean Energy Panel Room 316A**
A presentation by various Cities on Clean Energy Technologies and Strategies employed in their city.
Session Chairs: Dean Masuno, Office of Councilmember Tulsi Gabbard; Ann Chung, City & County of Honolulu
Moderator: Councilmember Tulsi Gabbard, Honolulu City Council
- 1:30 PM Defense Energy Solution Spotlights (Smart Grid, Biofuels) See page 23 for details Room 315**
Finalists from the Defense Energy Technology Challenge present the next generation of energy technology solutions targeted for military adoption.
Session Chair/Moderator: Laura Benold, CTSI
- | | |
|---|---|
| 1:30 Blue Pillar, Inc. (Smart Grid) | 2:15 General Atomics (Biofuels) |
| 1:45 General MicroGrids, Inc. (Smart Grid) | 2:30 Wisconsin Institute for Sustainable Technology (Biofuels) |
| 2:00 Cellana (Biofuels) | 2:45 Phycal, Inc. (Biofuels) |
- 3:00 PM Coffee & Networking, Expo Hall Room 313ABC, O'ahu Ballroom (Expo Hours: 3:00-7:30 PM)**
- 4:00 PM Measuring and Reporting Sustainability Achievements Room 317A**
As states gain momentum in implementing clean energy policy, a periodically updated progress report is a critical component of measuring the progress toward clean energy goals. While not all progress is quantifiable or measurable, it is imperative that we identify and track meaningful indicators to measure how well we are meeting our goals. The panel brings together energy stakeholders to identify indicators to meet clean energy standards (in law, regulation, and policy); identifying data sets available and needed, including ongoing data collection, to measure clean energy goals; and publishing meaningful, understandable reports to let policymakers and the public know "how well we're doing".
Session Chairs: Sharon Moriwaki, University of Hawai'i; Estrella Seese, State Energy Office
Moderator: Sharon Moriwaki, University of Hawai'i
Speakers:
- Denise Konan, University of Hawai'i
 - Carl Freedman, Haiku Design & Analysis
 - Anthony Roy, Earth Advantage Institute

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4:00 PM **Hydrogen** Room 314

The hydrogen panel will be focused on accelerating deployment of hydrogen technologies and infrastructure in Hawai'i, establishing a long term vision for the role of hydrogen in Hawai'i, and integration of hydrogen with renewables – such using energy from intermittent renewables to produce hydrogen and the use of hydrogen as a clean transportation fuel.

Session Chairs: Margaret Larson, State Energy Office; Ken Kelley, NREL

Moderator: Tom Quinn, Hawai'i Center for Advanced Transportation Technologies (HCATT)

Speakers:

- Rich Carlin, Office of Naval Research
- Joe Boivin, The Gas Company, LLC
- Grace Bochenek, Tank Automotive Research, Development and Engineering Center (TARDEC), US Army
- Peter Devlin, US Department of Energy
- Omar Mendoza, US Air Force

4:00 PM **Hydrokinetic and Ocean Thermal: Energy from Oceans and Rivers** Room 312

Intriguing research and demonstration projects are setting the stage for the commercialization of ocean thermal energy conversion and wave energy power plants in Hawai'i and throughout the Pacific. At the same time, small hydroelectric plants—an established technology with decades of operating history—can have a significant impact on island grids. Get updates on some of the newest, as well as the oldest, water power technologies.

Session Chair/Moderator: Andrea Gill, State Energy Office

Speakers:

- Tim Sawyer, Carnegie Wave Energy Limited
- Debbie Solis, US Army Corp of Engineers
- Michael Eldred, Makai Ocean Engineering
- Yasuyuki Ikegami, Saga University, Japan

4:00 PM **Permitting Renewable Energy Projects in Hawai'i & Beyond** Room 301B

Developing renewable energy projects is particularly challenging in geographic locations with protected natural, environmental, and cultural resources. Developers must have a good understanding of the county, state, and federal nuances particular to permitting different types of renewable energy projects. This panel features industry professionals with experience siting and permitting various renewable energy projects in Hawai'i and beyond.

Session Chair: Cameron Black, State Energy Office

Moderator: Gerald Sumida, Carlsmith Ball

Speakers:

- Jody Allione, AES Solar
- William Kucharski, Pacific AECOM
- Wren Wescoatt, First Wind
- Jeff Overton, Group 70 International
- Mike Kaleikini, Puna Geothermal Venture

4:00 PM **Asia-Pacific Economic Cooperation Update and Doing Business in China** Room 316A

An update on the Asia-Pacific Economic Cooperation coming up in Hawai'i in November 2011 by Department of State official Reta Jo Lewis. Doing business in China from an insider's perspective by US Commercial Service Officer, US Embassy, Beijing, P.R.C.

Session Chairs: Dean Masuno, Office of Councilmember Tulsi Gabbard; Ann Chung, City & County of Honolulu

Moderator: Councilmember Nestor Garcia

4:00 PM **Doing Business with DLA Energy** Room 315

An overview of the DLA Small Business Office with a focus on its role in assisting small businesses in locating opportunities to supply goods and services to DLA Energy.

Session Chair/Moderator: Ron Nelson, DLA Energy

Speakers:

- Kevin Ahern, DLA Energy
- Andrea Kincaid, DLA Energy

5:30 PM **Expo Reception** Room 313ABC, O'ahu

Summit Program

Thursday, September 15, 2011

- 9:00 AM **Keynotes** **Kalakaua Ballroom - 4th Floor**
TJ Glauthier, President, TJG Energy Associates, LLC; **Jason Hu**, Mayor, Taichung City, Republic of China (Taiwan)
- 10:00 AM **Coffee & Networking** **Concourse**
- 10:30 AM **Financing and Incentivizing Energy Efficiency** **Room 317A**
The promotion of energy efficiency is a proven way to trim energy costs, promote energy security, and reduce environmental impacts. Energy efficiency can be very cost-effective, yet it is also a complex landscape with a number of barriers making it difficult to implement projects. This session will discuss innovative approaches of financing and incentivizing energy efficiency activity and showcase real-world programs and projects that help to overcome the barriers and spur increased investments in the energy efficiency sector.
Session Chairs: **Gail Suzuki-Jones**, State Energy Office; **Jonathan Chin**, State Energy Office
Moderator: **Carilyn Shon**, State Energy Office
Speakers:
 - **Mark Glick**, Hawai'i State Energy Office
 - **Michael Trovato**, Johnson Controls, Inc.
 - **Jay Johnson**, NORESO
 - **Derrick Sonoda**, Hawai'i Energy
 - **Jeff Hughes**, Environmental Finance Center, UNC Chapel Hill
- 10:30 AM **Waste-to-Energy and Bioconversion** **Room 314**
Converting waste materials into a commodity is key to the sustainable growth of all urban and rural areas, particularly island societies. This panel features ventures focused on the storage, preparation, and conversion of waste materials for electricity generation or combustion here in Hawai'i. The lessons learned and strategies presented are universal concepts that may be implemented by others looking to turn discarded materials into a commodity.
Session Chairs: **Christian Whitney**, State Energy Office; **Cameron Black**, State Energy Office
Moderator: **Stephen Langham**, City and County of Honolulu
Speakers:
 - **Kyle Ginoza**, County of Maui
 - **Steve Joseph**, PVT Landfill
 - **Kevin Kondo**, Honua Technologies
 - **Mike Norris**, Covanta Energy
 - **Gary Feldman**, Lockheed Martin
 - **Stephane Larocque**, Sustainable Initiative
- 10:30 AM **Heat from the Earth-Geothermal** **Room 312**
The Ring of Fire and the "hotspot" under Hawai'i have created opportunities for both electric and non-electric uses of geothermal energy throughout Asia and the Pacific. Geothermal power plants provide a significant amount of electricity in nations such as Indonesia, the Philippines, Japan, New Zealand and the US. In addition, many communities internationally are using geothermal heat directly for such uses as spas, aquaculture, and dehydration of agriculture products.
Session Chair/Moderator: **Andrea Gill**, State Energy Office
Speakers:
 - **Toni Boyd**, Geo-Heat Center, Oregon Institute of Technology
 - **Kasumi Yasukawa**, National Institute of Advanced Industrial Science and Technology, Japan
 - **Michael Kaleikini**, Puna Geothermal Venture
 - **Fernando Penarroyo**, National Geothermal Association Philippines

10:30 AM **Driving Renewable Energy/Energy Efficiency (RE/EE) Through Community Engagement** Room 301A

Session Chair/Moderator: Malama Minn, State Energy Office

Speakers:

- **Edwin Stafford**, Utah State University, (Showing of Documentary Wind Uprising)
- **Robbie Cabral**, Innovations Development Group
- **Kekoa Kaluhiwa**, First Wind
- **Jeff Mikulina**, Blue Planet Foundation
- **H. Ray Starling**, Science Applications International Corporation

10:30 AM **DoD Renewable Energy Projects - Room 315**

Solar procurement using 10 U.S.C. 2922a authority; develop landfill gas (LFG) collection and processing system at a municipal landfill to produce landfill gas for a cogeneration plant on DOD property; 100kW DC dual access track concentrator PV; and onsite coproduction of hydrogen with combined heat and power (CHP).

Session Chair/Moderator: Kendall Kam, US Navy

Speakers:

- **Tarek Abdallah**, Engineer Research and Development Center Construction Engineering Research Laboratory, US Army
- **CAPT Joseph Dratz**, Maui High Performance Computing Center, DoD Supercomputing Resource Center, US Air Force
- **Kendall Kam**, Naval Facilities Engineering Command, Pacific, US Navy
- **David Stiner**, US Navy

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– Kevin Berner, CEO



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