## **GM648**

Submitting for consideration and confirmation to the Public Utilities

Measure Title:

Commission, Gubernatorial Nominee, MICHAEL CHAMPLEY, for a term

to expire 6-30-2016.

Report Title:

**Public Utilities Commission** 

Description:

Companion:

Package:

Current Referral: CPN

Introducer(s):

Sort by Date		Status Text
2/21/2012	S	Received.
2/21/2012	S	Referred to CPN.
2/21/2012	S	The committee(s) on CPN has scheduled a public hearing on 03-01-12 9:30AM in conference room 229.



#### OFFICE OF THE LIEUTENANT GOVERNOR

STATE OF HAWAII STATE CAPITOL P.O. BOX 3226 HONOLULU, HAWAII 96801 PHONE: (808) 586-0255 FAX: (808) 586-0231

## TESTIMONY OF LIEUTENANT GOVERNOR BRIAN SCHATZ

## SENATE COMMITTEE ON COMMERCE AND CONSUMER PROTECTION MARCH 1, 2012 IN CONSIDERATION OF

GM 648: CONFIRMATION OF MICHAEL CHAMPLEY TO THE PUBLIC UTILITIES COMMISSION

Chair Baker, Vice Chair Taniguchi and members of the Senate Committee and Consumer Protection:

Thank you for the opportunity to present testimony in strong support of Michael Champley's confirmation to the Public Utilities Commission.

Hawai'i has reached a critical crossroads on the road toward transforming to a clean energy economy. The time has come to move from policy to implementation, from talk to action. There are many challenges that we must overcome, both technical and economic in nature. Everyone in our State has a stake in this and it will require the concerted efforts of consumers, utilities, policy makers and regulators to achieve our clean energy goals.

Michael Champley has the skills, knowledge and experience to help our community navigate through these implementation challenges. Mr. Champley is a consummate energy professional who has moved from academic training in engineering and public utility economics and regulation to a distinguished career at Detroit Edison Company. Since moving to Hawai'i, he has lent his expertise to the Hawai'i Reliability Standards Working Group and served as a consultant to Blue Planet Foundation and Haiku Design & Analysis.

I have found him to be thoughtful, knowledgeable and keenly aware of the need to modernize the PUC as we evolve from a fossil-fuel monopoly iteration to a multi-faceted and complicated system of renewable energy sources and their attendant reliability challenges. I urge the Committee to act favorably on Mr. Champley's nomination.

Thank you for the opportunity to testify.

NEIL ABERCROMBIE GOVERNOR

Telephone: (808) 586-2020

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## STATE OF HAWAII PUBLIC UTILITIES COMMISSION DEPARTMENT OF BUDGET AND FINANCE

465 S. KING STREET, #103 HONOLULU, HAWAII 96813

February 28, 2012

HERMINA MORITA CHAIR

JOHN E. COLE COMMISSIONER

MICHAEL E. CHAMPLEY COMMISSIONER

e-mail: Hawaii.PUC@hawaii.gov

The Honorable Rosalyn Baker Chair Committee on Commerce and Consumer Protection State Capitol, Room 230 Honolulu, Hawaii 96813

RE: Governor's Message No. 648

Dear Chair Baker, Vice Chair Taniguchi, and Member of the Committee:

Thank you for the opportunity to support the appointment of Michael E. Champley as a Commissioner of the Hawaii Public Utilities Commission (HPUC). The interim appointment of Commissioner Champley brought to the HPUC a wealth of electric utility expertise and experience that is invaluable. He is the right Commissioner for the position at the right time.

Almost one year ago, I had the privilege of appearing before this Committee and said, "By acknowledging the challenges of new technologies and evolving business models, an effective Public Utilities Commission, now more than ever, requires a regulatory vision and purpose rooted in a strong principle to serve the economic, environmental and social well-being of the residents and businesses of the State of Hawaii. In order to achieve Hawaii's desired policy goals while assuring critical regulated services, an effective public utilities commissioner must be a leader who is purposeful, decisive and independent in analyzing the facts."

Since his interim appointment, Commissioner Champley has proven himself to be such -- an effective and thoughtful public utilities commissioner and leader. It has been a pleasure and a personally rewarding experience to work with him and Commissioner John Cole in leading the HPUC to meet the challenges of an effective regulatory environment to serve the public interest. I am truly grateful and find his willingness to dedicate his expertise and experience to serve the people of Hawaii, especially after such a formidable and successful utility executive and consulting career, commendable.

The Honorable Rosalyn Baker February 28, 2012 Page 2

Humi Tuni

Again, mahalo for the opportunity to support the appointment of Michael E. Champley as a Commissioner of the Hawaii Public Utilities Commission.

Sincerely,

Hermina Morita

Chair

HM:ac

# TESTIMONY BY KALBERT K. YOUNG DIRECTOR, DEPARATMENT OF BUDGET AND FIANCE STATE OF HAWAII TO THE SENATE COMMITTEE ON COMMERCE AND CONSUMER PROTECTION

#### MARCH 1, 2012

SUBMITTING FOR CONSIDERATION AND CONFIRMATION TO THE HAWAII PUBLIC COMMISSION GUBERNATORIAL NOMINEE, MICHAEL CHAMPLY FOR A TERM TO EXPIRE JUNE 30, 2016.

I am honored to submit testimony in strong support of Gubernatorial Nominee, Michael Champly, as Commissioner to the Hawaii Public Utilities Commission (PUC).

Commissioner Champly has over four decades of experience in the energy utility industry. Prior to his appointment to the PUC, Commissioner Champly was a senior consultant for a Maui-based senior energy company focused on clean energy resource integration in Hawaii. Before re-locating to Hawaii, Commissioner Champly was a senior executive with DTE Energy, a major electric and gas energy company. Commissioner Champly has a Bachelor of Science Degree in Electrical Engineering from the University of Dayton and a Master of Business Administration from Indiana University with an emphasis in Finance and Public Utility Economics and Regulation.

Having participated in numerous proceedings and activities at state and federal level Commissioner Champly has a thorough understanding of the regulatory process from both a utility and commission perspective. He understands the financial and operational aspects of Hawaii's electric utilities, the concerns of Hawaii's high rates for utilities, and the unique technical and operational challenges to manage and operate Hawaii's island electric grids.

In Commissioner Champly's short tenure with the PUC he has established a strong working relationship with existing PUC commissioners and with other professionals involved in

energy matters in both the private and public sector. The expertise and knowledge that Commissioner Champly has brought to the PUC has been extremely valuable.

I respectfully ask for the Committee's favorable consideration of Commissioner Michael

Champly's confirmation to the Hawaii Public Utilities Commission.



#### COMMITTEE ON COMMERCE AND CONSUMER PROTECTION

Senator Rosalyn H. Baker, Chair Senator Brian T. Taniguchi, Vice Chair

March 1, 2012

### Governor's Message 648:

Submitting for consideration and confirmation to the Public Utilities Commission, Gubernatorial Nominee, MICHAEL CHAMPLEY, for a term to expire 6-30-2016

### Testimony of Carlito P. Caliboso

#### **TESTIMONY IN SUPPORT**

I wholeheartedly support and recommend the nomination, appointment and confirmation of MICHAEL CHAMPLEY to the Public Utilities Commission.

I have known Mr. Champley for many years. When I was on the commission myself, Mr. Champley appeared and participated in several important policy matters faced by the commission. Mr. Champley has shown that he has the knowledge, skill, and experience to be a valuable member of the commission. He will be a valuable asset to the State as well.

Accordingly, I fully support Mr. Champley's nomination and fully recommend his confirmation.

Respectfully submitted,

aux P Care

Carlito P. Caliboso

YAMAMOTO & SETTLE A Limited Liability Law Company ccaliboso@ysahawaii.com

### TESTIMONY OF John E. Cole

## TO THE SENATE COMMITTEE ON COMMERCE AND CONSUMER PROTECTION

## THE TWENTY-SIXTH LEGISLATURE Regular Session of 2012

Thursday, March 1, 2012 9:30 A.M.

## TESTIMONY IN SUPPORT OF GOVERNOR'S MESSAGE 648 Nomination of Michael Edward Champley to the Hawaii Public Utilities Commission

## TO THE HONORABLE ROSALYN H. BAKER, CHAIR AND MEMBERS OF THE COMMITTEE

My name is John Cole, and I am happy to testify in strong support of Michael Champley's nomination to the Hawaii Public Utilities Commission.

I have known Mr. Champley for the past several years through his involvement in several Commission policy dockets as a consult for a couple of different clients. In that role he has never displayed anything but the utmost professionalism and a deep knowledge of the often complex technical aspects of electric utility systems. Mr. Champley always contributed positively to the Commission's understanding of the issues before it. I have gotten to know Mr. Champley even better over the past several months that he has been serving as a commissioner, and believe his experience and understanding will be indispensible in the coming years, as the Commission addresses the very challenging issues we presently face.

I can say without hesitation that Mr. Champley is a person of solid character and integrity and will make an excellent Commissioner. I strongly urge you to favorably consider her nomination.

### Testimony before the Senate Committee on Commerce and Consumer Protection

Thursday, March 1, 2012 9:30 a.m., Conference Room 229

### Statement on Governor's Message No. 648

by Robert A. Alm
Executive Vice President
Hawaiian Electric Company, Inc.

TO THE HONORABLE ROSALYN H. BAKER, CHAIR, BRIAN T. TANIGUCHI, VICE CHAIR, AND MEMBERS OF THE COMMITTEE:

It is my pleasure to support the nomination of Michael Champley for a term on the Public Utilities Commission.

I first met Mike when he came to Hawaii and was very impressed both with his background and with his willingness to share his knowledge and wisdom with Hawaii. For an individual who was supposedly coming to Hawaii to "retire", he has done anything but retire. Largely as a consultant to the Blue Planet Foundation, he has been an active participant in a number of dockets assisting us to find the best possible answers for Hawaii.

Mike makes a great contribution to the Public Utilities Commission with the combination of his strong utility background and his very strong support for Hawaii's clean energy goals.

I urge the Committee to support Mike Champley's confirmation.









#### SENATE COMMITTEE ON COMMERCE AND CONSUMER PROTECTION

March 1, 2012, 9:30 A.M. Room 229 (Testimony is 2 pages long)

### TESTIMONY IN SUPPORT OF GM 648, MICHAEL CHAMPLEY TO SERVE ON THE PUBLIC UTILITIES COMMISSION

Chair Baker and members of the Committee:

The Blue Planet Foundation strongly supports the confirmation of GM 648, Michael Champley, to serve on the Public Utilities Commission. Mr. Champley brings the right set of skills, experiences, and motivation to lead the transition to Hawaii's clean energy future as a member of the Commission. Mr. Champley is an engineer with deep knowledge of how a utilities function and a strong desire to reduce Hawaii's dependency on expensive imported fossil fuel.

Mr. Champley worked for over 35 years in the utility sector, with most of his career at the Detroit Edison Company (DTE). At DTE he held positions in engineering, operations, planning, financial and regulatory areas. His final post with DTE was as Senior Vice President of Regulatory Affairs, where he was responsible for developing and executing state and federal regulatory strategies for the company and managing relationships with the Michigan Public Service Commission and Federal Energy Regulatory Commission.

Since starting work in Hawai'i in 2007, Mr. Champley has worked as an independent energy advisor on strategic, regulatory policy and operational issues primarily related to clean energy resource integration for energy companies and policy advocacy organizations. He has participated in various regulatory issues regarding the Hawai'i Clean Energy Initiative implementation, including the feed-in tariff design docket and the energy efficiency portfolio standards docket. He also completed a review of mainland ancillary service requirements and product offerings and was the principal author of a published study which evaluated various electric market structures and regulatory policies relative to their impact on the implementation of Michigan's 21st Century Energy Plan. His research includes identifying and modifying regulatory policies and utility operating practices that impede integration of renewable energy, demand response, and energy efficiency resources.

Mr. Champley worked as a policy consultant for Blue Planet Foundation for over two years, mostly advising on key clean energy dockets before the Commission and other regulatory matters. Since his interim appointment in 2011, Mr. Champley has recused himself from participation in dockets on which he previously consulted.

Hawaii's evolving energy industry requires the adoption of complex economic and operational policies with which Mr. Champley is intimately familiar. A deep knowledge of the technical operations of electricity generation and the grid is imperative to effective regulatory decision-making. During his work with Blue Planet, Mr. Champley was instrumental in identifying and suggesting modifications to practices that impede the integration of renewable energy.

Mr. Champley understands the complex changes that must happen to enable Hawai'i's transition to affordable, reliable clean energy like solar, wind, and other clean sources that Hawai'i has in abundance. Mr. Champley comes with decades of experience in energy policy and a toolbox of solutions to wean Hawai'i from its dependence on fossil fuel. He knows what it's going to take to clear the path for renewable energy in Hawaii.

We fully support Mr. Champley's confirmation as a commissioner.

Thank you for the opportunity to testify.



## Statement of PAUL GAYNOR FIRST WIND

### Before the Senate Committee on COMMERCE AND CONSUMER PROTECTION

Thursday, March 1, 2012 9:30 a.m. State Capitol, Conference Room 229

### In consideration of GM 648

Confirming Michael E. Champley as Commissioner for the Public Utilities Commission

Aloha Chair Baker, Vice Chair Taniguchi, and Members of the Committee on Commerce and Consumer Protection. My name is Paul Gaynor and I am the Chief Executive Officer of First Wind. First Wind is an independent wind energy company with four active projects in Hawaii and by the end of 2012, we will be supplying 150 MW of clean, renewable energy for the residents of Maui and Oahu.

I write to you with strong and unqualified support for Michael E. Champley, to be confirmed as a Commissioner with the State of Hawaii Public Utilities Commission (PUC). Based on my knowledge of his background, I believe that he has all of the academic and professional qualifications, and the personal attributes necessary to successfully carry out the mission and duties of the PUC.

Mike's professional experience includes all of the aspects of administration and regulated industry knowledge which are critical to effectively serve on the PUC. Mike understands regulatory issues affecting all regulated entities including telecommunications, transportation, water, as well as the energy industry. He has over three decades of experience with major mainland integrated electric utilities (Detroit Edison Company), natural gas utilities (Michigan Consolidated Gas Company) and a diversified energy company (DTE Energy).

Since moving to Hawaii a few years ago, Mike has participated in many of the Hawaii clean energy dockets before the PUC on behalf of the Blue Planet Foundation. He also served as a consultant to XTreme Power, the battery energy storage manufacturer that built the innovative battery system at our Kahuku wind energy facility on Oahu.

Paul Gaynor First Wind March 1, 2012 Page 2 of 2

Mike has a good understanding of the unique technical and operational challenges to manage and operate Hawaii's island electric grids. He has conducted a thorough analysis of the financial performance of Hawaii's electric utility and high utility rates. In addition, Mike has established productive working relationships with key Hawaii public officials involved in energy matters.

Mahalo for this opportunity to express my strong support for confirming Michael E. Champley as a Commissioner with the Hawaii Public Utilities Commission. I believe that he will be valuable member of the Commission.



SENATE COMMITTEE ON COMMERCE AND CONSUMER PROTECTION March 1, 2012, 9:30 A.M. Room 229

Testimony in support of GM 648, Michael Champley

Chair Baker and members of the Committee:

My name is Darren T. Kimura, President and CEO of Sopogy. Sopogy supports I support the confirmation of GM 648, Michael Champley, to serve on the Public Utilities Commission.

Mr. Champley is an engineer with a technical understanding of how to lead the transition to Hawaii's clean energy future. He strongly supports weaning Hawaii from imported fossil fuels.

In addition Mr. Champley has the right temperament, attitude, and experience in working in a complex regulatory field. He has a deep understanding of how utilities operate and what motivates change within an organization.

Mr. Champley worked for over 35 years in the utility sector, with most of his career at the Detroit Edison Company (DTE). At DTE he held positions in engineering, operations, planning, financial and regulatory areas. Mr. Champley is intimately familiar with the complex economic and operational policies involved in integrating variable energy sources onto electricity grids.

Mr. Champley has integrity and the right outlook in bringing together parties for a common solution.

Thank you for the opportunity to testify. Darren T. Kimura







### Sandra-Ann Y.H. Wong

Attorney at Law, A Law Corporation

Senate Committee on Commerce and Consumer Protection
Testimony in Support of GM 648: Michael Champley to the Public Utilities Commission
being heard on March 1, 2012 at 9:30a.m. in Room 229

Aloha Chair Baker, Vice Chair Taniguchi, and Members of the Committee:

My name is Sandra-Ann Y.H. Wong. I am an attorney that has practiced before the Public Utilities Commission for the last 20 years. I support the confirmation of Michael Champley to the Public Utilities Commission.

Prior to his nomination, I had the honor to work with Mr. Champley and found that he is ideally suited to be a Public Utilities Commissioner. With his many years of working with public utilities in various roles, Mr. Champley is very knowledgeable as to the workings of a public utility and has a strong technical expertise that will be invaluable to the ratepayers of Hawaii.

Additionally, Mr. Champley has an even disposition which will serve him well as a Commissioner.

Finally and most importantly, Mr. Champley has integrity and the courage to make the right decisions, even when those decisions may not be popular.

Many of us may not realize this, but the Public Utilities Commission plays a major role in the lives of everyone in Hawaii. They regulate our public water and waste water systems, public motor carriers, our public telecommunications and our public electrical utilities. There role is even more important today as the State of Hawaii is thriving to meet its goal of a more renewable energy future and at the same time ensuring that the reliability of our electrical systems are not put at risk and that ratepayers are charged a just and reasonable rate. In my humble opinion, Mr. Champley is someone that we need on the Commission to accomplished these important goals.

Thank you for the opportunity to testify in strong support of Mr. Champley's nomination.

Chair Baker and members of the Committee:

I support the confirmation of GM 648, Michael Champley, to serve on the Public Utilities Commission.

There are many reasons that I believe Mike Champley should serve on the PUC, here are just a few:

Mr. Champley is an engineer with a technical understanding of how to lead the transition to Hawaii's clean energy future. He strongly supports weaning Hawaii from imported fossil fuels, which we know is critical. He is used to working in a complex regulatory field and has the right temperament, attitude, and experience. He worked for over 35 years in the utility sector, with most of his career at the Detroit Edison Company (DTE). At DTE he held positions in engineering, operations, planning, financial and regulatory areas. His specific work experience provides him with a deep understanding of how utilities operate and what motivates change within an organization. His knowledge makes him intimately familiar with the complex economic and operational policies involved in integrating variable energy sources onto electricity grids. Finally, he has integrity and the right outlook in bringing together parties for a common solution. He will make a great addition to the PUC.

Thank you for the opportunity to testify.

Regards,

**David Williams** 

### Testimony for CPN 3/1/2012 9:30:00 AM GM648

Conference room: 229

Testifier position: Support Testifier will be present: Yes Submitted by: Roy Catalani

Organization: Young Brothers, Limited

E-mail: rcatalani@htbyb.com Submitted on: 2/29/2012

Comments:

#### TESTIMONY OF MICHAEL E. CHAMPLEY

## TO THE SENATE COMMITTEE ON COMMERCE AND CONSUMER PROTECTION

MARCH 1, 2012

G.M. 648

Submitting for consideration and confirmation to the Public Utilities Commission, Gubernatorial Nominee, MICHAEL E. CHAMPLEY, for a term to expire 6-30-2016

Chair Baker, Vice Chair Taniguchi and Members of the Committee, thank you for the opportunity to appear before you this morning.

I want to thank Governor Abercrombie for nominating me to the Public Utilities Commission. I offer my thanks to this Committee, as well, for timely considering my nomination. I truly consider it an honor and privilege to be considered for membership to the PUC.

I would like to start by explaining how and why I am here before you this morning. I first visited Hawaii almost 20 years ago with my family and we immediately recognized it is a very special place. So much so that we returned to Hawaii each year thereafter, even multiple times in some years. We quickly decided that someday we would retire to Hawaii and make it our permanent home. We have successfully achieved only one of these goals!

About the time Hawaii become our permanent home, the State launched the Hawaii Clean Energy Initiative. Hawaii's clean energy transformation is visionary and exciting, particularly to someone like me who understands and appreciates the enormity of the transition and the necessity for it. I simply could not sit on the sideline and not participate first hand in one of the most exciting energy transformations anywhere in the world. Retiring in Hawaii at this time was simply not going to happen!

My involvement in Hawaii's clean energy transformation began as a consultant to the Blue Planet Foundation, participating in PUC dockets, and expanded to include advising Hawaii renewable energy developers, including a major energy storage company. Last fall, colleagues asked if I might be interested in serving on the PUC when a vacancy occurred.

For me, the decision was predicated in part upon whether I could contribute more to Hawaii's clean energy transformation as member of the PUC than as a participant in PUC dockets and a consultant advising clients on individual, one-off clean energy projects. After considerable

thought, I felt that I could likely contribute more to Hawaii's clean energy transformation as a member of the PUC.

Just as important for me was the element of public service. My prior public service included roles such as Planning Commission Chairman, election to City Council and subsequently as Mayor Pro Tem in my then local community. An appointment to the Hawaii PUC would continue this personal desire to be of service in my adopted community. Given my 40+ years in the regulated utility field, my service as a Commissioner is not a platform for another job or career advancement but simply a way for me to give back to and serve my new community and its future generations.

I believe my educational background and professional experience qualifies me to serve as a Hawaii PUC Commissioner. I am an electrical engineer with an MBA degree specializing in public utility economics and regulation and in finance. My academic training provides me with a thorough understanding of the economic and public policy foundations affecting all regulated entities including telecommunications, transportation, water and wastewater as well as the energy industry.

I have extensive relevant energy and regulated industry experience including three decades of experience with a major mainland electric and natural gas utility and diversified energy company in various operations, planning, financial and regulatory positions. A significant portion of my career was as a senior executive officer in a variety of strategic, operations, staff and special assignment responsibilities. As a consequence, I have an understanding of all facets of electric and gas utility operations, cost structure and performance.

When I reflect back upon my career, much of my time was spent analyzing, integrating and managing complex economic, public policy and technical issues affecting an evolving energy utility industry. Stated differently, I feel I naturally gravitate to the most challenging projects or complex business and public policy issues. The opportunity to participate, learn and accomplish is what motivates me. I intend to rely upon these skills and experiences to assist the PUC and the State to accomplish the clean energy transformation.

I understand and appreciate the importance of the PUC and its impact on Hawaii's residents and businesses. The combined revenue of the utilities and motor carriers under PUC jurisdiction was almost \$4 billion in 2010; electricity revenues alone increased by over \$600 million in 2011 due to higher oil prices.

The scope of responsibilities for the Hawaii PUC is much broader than just about any other state public utility commission on the mainland. The Hawaii PUC, like all other state commissions, has the traditional duty to oversee and regulate public utilities to ensure just and reasonable rates and reliable, good quality utility service. In addition, the Hawaii Legislature has entrusted the PUC with increased authority and discretion in implementing the State's clean energy policies. Additional resources and skill sets are required to implement this responsibility and the PUC is evolving to accommodate these requirements.

Moreover, the Hawaii PUC must also assume the regulatory responsibilities that otherwise are provided by the Federal Energy Regulatory Commission (FERC) on the mainland. FERC and mainland state commissions share regulatory oversight responsibilities for electric utilities which reduces the regulatory work load for mainland state utility commissions. Hawaii electric utilities are exempt from FERC jurisdiction either by statute or virtue of the fact that Hawaii's electric grid is not interconnected with another state. As a consequence, the Hawaii PUC must do it all. The rapid penetration of clean energy projects on the electric grid in Hawaii has highlighted the need for the PUC to assume additional "FERC" regulatory responsibilities.

I have a thorough understanding of various regulatory processes from both a utility and commission perspective, having managed, testified or participated in numerous electric, gas, water and wastewater regulatory proceedings at state and federal level over many decades. This experience has enabled me to observe numerous commissions and commissioners in operation, both effective and ineffective ones. I intend to draw upon these experiences and lessons learned and apply them, where appropriate, to the Hawaii PUC.

From my observations, effective commissioners are an essential in order to have an effective commission. The observable qualities that distinguish effective commissioners are the ability to balance competing public and private interests coupled with ability to listen and independently analyze facts and circumstances. Additionally, a commissioner should be someone who is purposeful and decisive. I believe I possess the knowledge, experience and personal characteristics necessary to be an effective as well as a "progressive" PUC commissioner to help facilitate evolving technological and regulatory challenges and opportunities.

In summary, it would be a privilege and honor to serve the State of Hawaii as a PUC Commissioner. I hope to share my knowledge and experience in energy and utility regulatory matters and to be of value to the PUC, specifically and the Administration and Legislature, generally. More importantly, I do not come to the job with any preconceptions about what are appropriate regulatory or energy policies with one exception -- Hawaii must reduce its dependence on oil to ensure a prosperous future!

Serving as a PUC Commissioner would be a fulfilling culmination to a long career in the utility regulatory environment and made more meaningful by assisting the State of Hawaii in its transformation to a clean energy future, hopefully as a model for the rest of the world. Thank you for the opportunity to appear before you this morning.