

Statement of
YUKA NAGASHIMA
Executive Director & CEO
High Technology Development Corporation
before the
**SENATE COMMITTEES ON ENERGY & ENVIRONMENT AND
TRANSPORTATION & INTERNATIONAL AFFAIRS**
Wednesday January 30, 2008
2:45 PM
State Capitol, Conference Room 224

In consideration of
SB 2549 RELATING TO ELECTRIC AUTOMOBILES.

Chairs Menor and English, Vice Chairs Hooser and Gabbard, and Members of the Committees on Energy & Environment and Transportation & International Affairs.

The High Technology Development Corporation (HTDC) understands the committees' desire to increase electric automobile use in the state; however, it is premature to implement a plan of this nature, which mandates the introduction of vehicles that are neither in production nor have specific projected production levels.

HTDC, through its Hawaii Center for Advanced Transportation Technologies (HCATT), formerly the Hawaii Electric Vehicle Demonstration Project, is arguably the most knowledgeable of and greatest proponent for electric vehicles in the state. Since 1993, HCATT has led a consortium of private and public organizations developing and demonstrating electric drive technologies for commercial and military applications. HCATT activities included participation in national, federally funded programs, which afforded close collaboration with six other similar consortia representing several geographic regions throughout the country. These programs facilitated close monitoring of California's Zero-Emission Vehicle (ZEV) Mandate, which was

initiated in the early 1990s, with hopes that this bold initiative by California would accelerate the introduction of electric vehicles.

SB 2549 is akin to the California ZEV Mandate, which required that 2% of the vehicles sold in California in 1998 would be electric vehicles, increasing to 10% in 2003. The mandate eventually failed because the automobile manufacturers fought it and did not produce the numbers of electric vehicles required to meet the mandate. They claimed technology hurdles (battery cost and driving range) could not be overcome in order to produce a marketable vehicle that consumers would purchase. First and foremost, automobile manufacturers are in the business of making money.

At the present time, automobile manufacturers have not committed to producing the numbers of electric vehicles that would be required to meet the years 2015 and 2025 levels specified in SB 2549, and Hawaii is too small of a market for them to build electric vehicles just for Hawaii. In 1998, HCATT initiated the "EV Ready State" project, which funded and installed charging infrastructure throughout the Island of Oahu, to encourage automobile manufacturers to sell electric vehicles in Hawaii. If this proved successful, plans existed to install the charging infrastructure on the neighbor islands as well. However, our market was not large enough for the automobile manufacturers to justify dedicated electric vehicle production for Hawaii. Consequently, our pilot project "if we build it, they will come" philosophy fell on deaf ears.

Although there is a lot of renewed interest in electric vehicles because of the potential for lithium batteries to overcome the technology hurdles, we can not mandate something that is unenforceable due to the unknowns about future electric vehicle production. Additionally, we

can not establish a mandate based on the availability or sales of neighborhood electric vehicles or low speed electric vehicles, nor the ability to purchase a converted electric vehicle on line through the likes of eBay or Sam's Club. If there is no guaranteed commitment on the part of the automobile manufacturers to produce the vehicles and no projected production levels, it would not be prudent to waste resources on the development of a plan that could not be implemented. Only when the major automobile manufacturers commit to high rate production can we implement a plan of this nature. HTDC is willing to assist the committees in implementing this plan when appropriate numbers of electric vehicles are being manufactured.

Thank you for the opportunity to offer these comments.

Testimony before the Senate Committee on
Energy & Environmental Protection

S.B. 2549, Relating to Electric Automobiles

Wednesday, January 30, 2008
2:45 a.m., Conference Room 224

By Carlos Perez Loriga
Director
Customer Technology Applications Division
Hawaiian Electric Company, Inc.

Chair Menor, Vice Chair Hooser and members of the Committee:

My name is Carlos Perez Loriga and I am testifying on behalf of Hawaiian Electric Company, Inc., and its subsidiary utilities, Maui Electric Company, Ltd., and Hawaii Electric Light Company, Inc.

S. B. 2549 requires the Department of Business, Economic Development, and Tourism to develop an implementation plan to increase electric, hybrid electric, and plug-in hybrid automobile use in Hawaii.

Hawaiian Electric Company strongly supports S.B. 2549, to promote the increased use of fuel efficient electric, hybrid electric, and plug-in hybrid automobiles. Increased consumer acceptance of these types of vehicles will help to achieve reductions in greenhouse emissions and fossil fuel use; it will also increase energy efficiency and conservation, promote the use of renewable resources and decrease our dependency on imported oil.

Thank you for the opportunity to testify.

LATE

January 29, 2008

Senator J. Kalani English, Chair / SB NO. 2549

COMMITTEE ON TRANSPORTATION AND INTERNATIONAL AFFAIRS

Martin D. Wynn
Maui Energy Group
640 Front Street Unit #5
Lahaina, Maui, Hawaii 96761
808-661-1212

Wednesday: January 30, 2008 Time 2:45pm

Support of S.B. NO. 2549 Vote YES...

Introduction:

My name is Martin D. Wynn from Maui.

I am Cofounder of Maui Energy Group on Maui

We will be a ACT 221 / 215 Compliant Company

I are testifying in Support of S.B. NO. 2549 Vote YES...

Content:

We have the World's first Zero Emission All-Electric Freeway Certified Vehicles by California Air resources Board (CARB) in California. Sixteen other States Have Signed On.

All-Electric Sport Utility Truck SUT...Sport Utility Vehicle...SUV

Vehicles Spec's:

130+ Miles on a Charge...

Top Speed 95 MPH...

Five People Capable...

0-60 in 10 seconds...

Can Be Recharged with Our Special Rapid Charger in TEN MINUTES.....

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LATE

Maui Energy Group Testimony S.B. No. 2549 1-30-2008

We are Ten Years ahead of Hydrogen Fuel Cells.

We Qualify for the Full CARB Zero Emission ZEV Credits.

Forty Gold ZEV Credits @ \$5,000 each...\$200,000 per Vehicle Manufactured.

Hawaii Market:

Federal Government and It's Agencies: US Air Force

Corporate Fleets: Utility Companies...HECO...MECO

State of Hawaii / Hawaii Counties: Fleets

Private Corporations: Castle & Cooke: Lanai
Maui Land & Pineapple Maui

Our All-Electric Vehicle is a Large Bank of Battery Power Storage on Wheels.

All-Electric Vehicles, Plug-in Hybrids will begin arriving this Year in Hawaii.

Our first Customer is Castle & Cooke.

We are developing V2G Smart Grid Management Systems with our Electric Vehicles and our Rapid Charging Network.

February 23, 2007... <http://www.autobloggreen.com/2007/02/24/president-bush-examines-the-phoenix-electric-sut-and-a-plug-in-h/>

Dan Elliott CEO of Phoenix Motorcars met with President Bush, Karl Rove, and Secretary of Energy Samuel Bogman in the Oval Office at The White House.

We are developing a Rapid Charge Infrastructure for Hawaii for our All-Electric Vehicles...10 minute Rapid Recharge...130+ Mile Range.

We are working with The Department of Energy and their Go-To Agencies on this in Hawaii.

Exhibits: Web Site: <http://mauienergygroup.blogspot.com>

PDF: Maui Energy Group-1, 2, 3: PDF attached...

Thank you the opportunity to testify on a **YES** for this Bill.

Martin D. Wynn...Maui, Hawaii

Maui Energy Group Testimony S.B. No. 2549 1-30-2008

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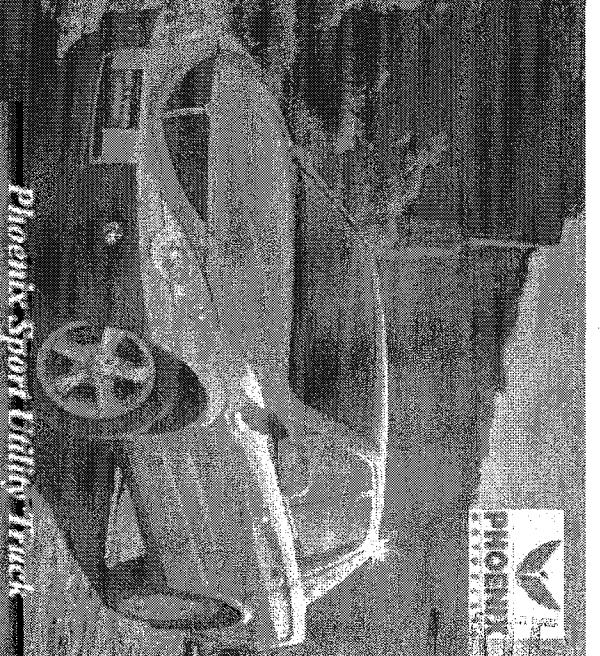
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Thank you the opportunity to testify on a **YES** for this Bill.

Martin D. Wynn...Maui, Hawaii

LATE



Phoenix Sport Utility Truck

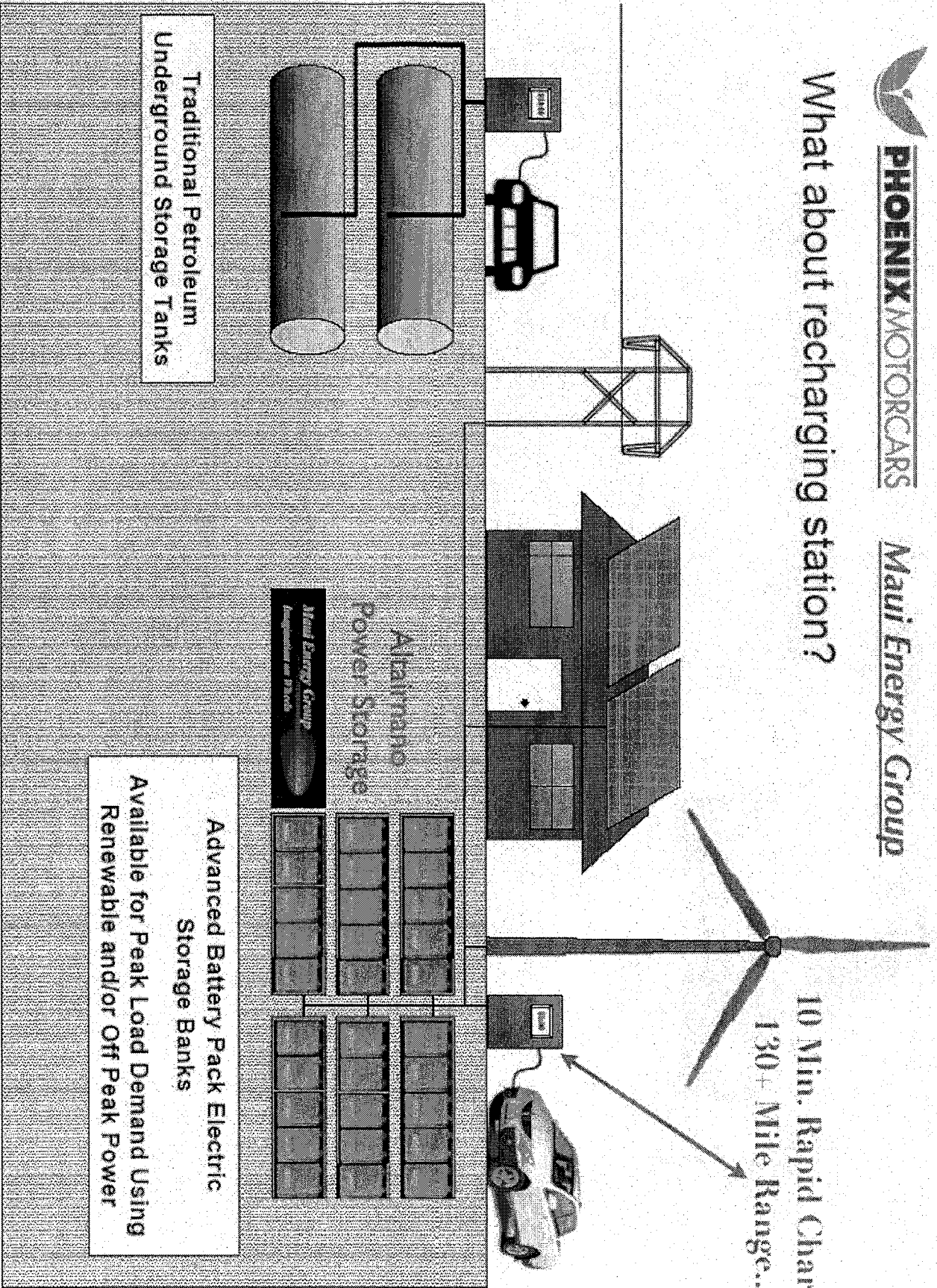
- *130+ Mile Range*
- *100 MPH.....0-60 in 10 Seconds*
- *Five Passenger Capable...Four Doors*
- *10 Minute Rapid Recharge / 4 Hour...220Volt*



PHOENIX MOTORCARS

Maui Energy Group

What about recharging station?



Traditional Petroleum
Underground Storage Tanks

Altairmano
Power Storage



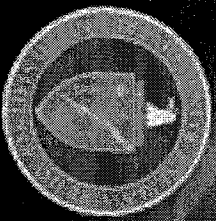
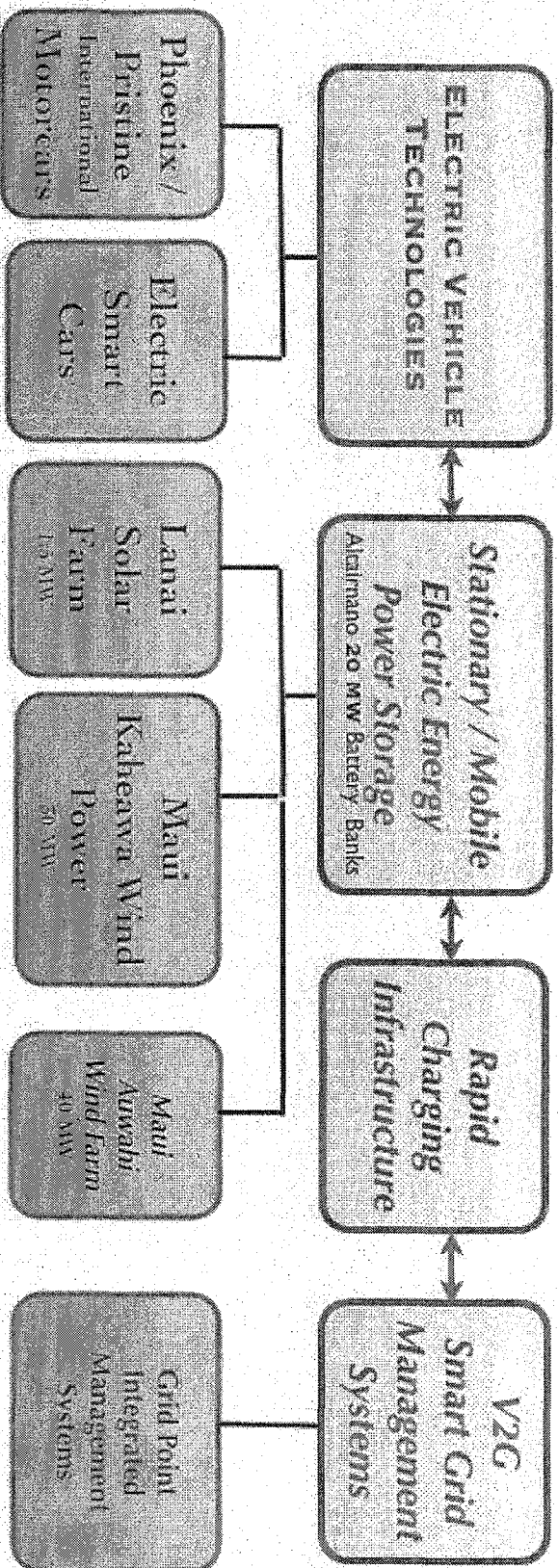
Advanced Battery Pack Electric
Storage Banks
Available for Peak Load Demand Using
Renewable and/or Off Peak Power

10 Min. Rapid Charge
130+ Mile Range...

LATE

Maui Energy Group

Corporate Technology Structure



U.S. DEPARTMENT OF
ENERGY

US Department of Energy
Home Land Security
US Air Force / US Navy
Atlantis Submarines