

# SB 1323

Measure Title:	RELATING TO APPLIANCE EFFICIENCY STANDARDS.
Report Title:	DCCA; Appliance Efficiency Standards
Description:	Requires the Department of Commerce and Consumer Affairs to adopt state appliance efficiency standards.
Companion:	
Package:	None
Current Referral:	CPH
Introducer(s):	KOUCHI



DAVID Y. IGE  
GOVERNOR

MIKE MCCARTNEY  
DIRECTOR

## DEPARTMENT OF BUSINESS, ECONOMIC DEVELOPMENT & TOURISM

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Statement of  
**MIKE MCCARTNEY**  
Director

Department of Business, Economic Development, and Tourism  
before the

**SENATE COMMITTEE ON COMMERCE, CONSUMER PROTECTION  
AND HEALTH**

Friday, February 22, 2019  
9:35 AM

State Capitol, Conference Room #229

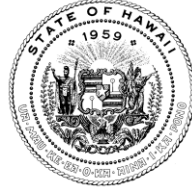
In consideration of  
**SB 1323**  
**RELATING TO APPLIANCE EFFICIENCY STANDARDS.**

Chair Baker, Vice Chair Chang, and members of the Committee.

The Department of Business, Economic Development, and Tourism (DBEDT) **supports** SB 1323 which calls for the Department of Commerce and Consumer Affairs to adopt California's appliance efficiency standards for appliances as allowed by federal law.

We concur with the energy conservation and energy efficiency goals of this bill and concur with the amendments offered by the Public Utilities Commission.

Thank you for the opportunity to testify.



DAVID Y. IGE  
GOVERNOR

JOSH GREEN  
LT. GOVERNOR

**STATE OF HAWAII  
OFFICE OF THE DIRECTOR  
DEPARTMENT OF COMMERCE AND CONSUMER AFFAIRS**

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CATHERINE P. AWAKUNI COLÓN  
DIRECTOR

JO ANN M. UCHIDA TAKEUCHI  
DEPUTY DIRECTOR

**Testimony of the Department of Commerce and Consumer Affairs**

**Before the  
Senate Committee on Commerce, Consumer Protection, and Health  
Friday, February 22, 2019  
9:35 a.m.  
State Capitol, Conference Room 229**

**On the following measure:  
S.B. 1323, RELATING TO APPLIANCE EFFICIENCY STANDARDS**

Chair Baker and Members of the Committee:

My name is Catherine Awakuni Colón, and I am the Director of the Department of Commerce and Consumer Affairs (DCCA or Department). The Department appreciates the intent of this bill and offers comments.

The purpose of this bill is to require the Department to adopt state appliance efficiency standards modeled after the standards established in California.

The Department supports energy efficiency and acknowledges the possible benefits to consumers if the State adopts appliance efficiency standards. Adoption of appliance efficiency standards may further the goal of lowering consumers' energy bills and reduce greenhouse emissions. In addition, adopting the appliance energy standards already promulgated in California will be more efficient for Hawaii and will allow Hawaii to benefit from the market power that California exerts on manufacturers and the appliances they produce.

The Department notes that the Public Utilities Commission is developing proposed language to promulgate appliance efficiency standards in Hawaii Revised Statutes (HRS) chapter 196, entitled “Energy Resources,” for the Public Benefits Fee Administrator to enforce pursuant to HRS chapter 269, entitled “Public Utilities Commission.”

Thank you for the opportunity to testify on this bill.

TESTIMONY OF  
JAMES P. GRIFFIN, Ph.D.  
CHAIR, PUBLIC UTILITIES COMMISSION  
STATE OF HAWAII

TO THE  
SENATE COMMITTEE ON  
COMMERCE, CONSUMER PROTECTION, AND HEALTH

February 22, 2019  
9:35 a.m.

Chair Baker and Members of the Committee:

**MEASURE:** S.B. No. 1323

**TITLE:** RELATING TO APPLIANCE EFFICIENCY STANDARDS.

**DESCRIPTION:** Requires the Department of Commerce and Consumer Affairs to adopt state appliance efficiency standards.

**POSITION:**

The Public Utilities Commission offers the following comments for consideration.

**COMMENTS:**

The Public Utilities Commission (“Commission”) supports the intent of the measure, which is to adopt appliance efficiency standards for Hawaii.

The Commission is working with the Department of Business, Economic Development, and Tourism, the Department of Commerce and Consumer Affairs, and the Public Benefits Fee Administrator on possible amendments to this measure.

Thank you for the opportunity to testify on this measure.

February 19, 2019

Senator Rosalyn H. Baker, Chair  
Senate Committee on Commerce, Consumer Protection, and Health  
Hawaii State Capitol

**RE: Support of SB 1323, Relating To Appliance Efficiency Standards**

Dear Chair Baker, Vice Chair Chang, and members of the Committees:

On behalf of the American Council for an Energy-Efficient Economy (ACEEE), I write in support of SB 1323, Relating to Appliance Efficiency Standards. ACEEE is a nonprofit research organization based in Washington, D.C. that conducts research and analysis on energy efficiency. We have been active on energy efficiency issues at the national, state, and local level for more than three decades, collecting extensive best-practice information on topics including energy efficiency programs and utility business model design.

SB 1323 sets state appliance efficiency standards for Hawaii for the first time. These state-level standards for minimum energy and water efficiency have been projected to result in water and energy bill savings of \$38 million annually by 2025, adding dollars to consumers' pockets and benefiting the economy. These savings would double, to \$77 million, by 2035. By saving energy, state appliance standards also help to avoid the need to import fossil fuel and help to reduce emissions reductions.

Hawaii has long been a leader in energy efficiency. These state-level appliance standards would reaffirm Hawaii's leadership, and deliver benefits to residents and businesses alike. We urge you to support and work to advance SB 1323. Thank you for considering our input.

Sincerely,



Annie Gilleo  
Senior Manager, State Policy  
American Council for an Energy-Efficient Economy



February 21, 2019

Senator Rosalyn H. Baker, Chair  
Committee on Commerce, Consumer Protection, and Health  
Hawaii State Legislature

Senator Stanley Chang, Vice Chair  
Committee on Commerce, Consumer Protection, and Health  
Hawaii State Legislature

Dear Chair Baker, Vice Chair Chang, and Members of the Committee,

On behalf of the Natural Resources Defense Council, a leading environmental advocacy organization, and its more than 2 million members and activists, including nearly 2,700 Hawaii residents, we offer our strong support for Senate Bill 1323, concerning appliance efficiency standards.

Strong standards for appliances and equipment are particularly important for Hawaii, which has the most expensive energy rates in the country. Hawaii residents pay double or triple what residents of other states pay for their energy, and potential savings from standards are substantial. Hawaii has the potential to save more than any other state through appliance standards: a recent report from the Appliance Standards Awareness Project found that Hawaii's consumers and businesses could save up to \$215 each year on their utility bills by adopting a broad package of state standards.

This bill proposes the adoption of standards already in place in California for faucets, showerheads, and computers and monitors. California is also currently working on standards for the other products in this bill, high color rendering index fluorescent lamps and sprinkler spray bodies.

The appliance standards proposed in this bill will collectively save Hawaii consumers and businesses more than \$38 million each year on their utility bills by 2025. The annual savings grow to more \$75 million in 2035, while

**NATURAL RESOURCES DEFENSE COUNCIL**

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reducing carbon pollution by 61,000 metric tons each year, equivalent to eliminating the annual emissions from around 13,000 cars. To be clear: those are the benefits Hawaii households and businesses will receive *each year* thanks to the proposed state standards—real savings that can be spent and invested in other parts of the economy.

Products that meet these standards are already available in the marketplace, thanks to state-level standards already in place in California and elsewhere, or voluntary specifications put in place through the ENERGY STAR or WaterSense programs. The standards proposed in this bill are already well developed by California, so Hawaii would not be starting from scratch. Adopting the standards simply means that all consumers in Hawaii would reap the energy benefits.

Furthermore, many of these standards will have no incremental cost for consumers: products that meet the standards are often not more expensive to purchase than less efficient products. In the case of products that do cost more upfront, any higher purchasing costs will be offset through energy savings in a year or less in nearly every case. A full analysis from the Appliance Standards Awareness Project of the potential annual utility bill savings and payback periods of the products in this bill and other potential products is found in the table below.

The water-related savings are particularly striking. State standards for faucets, showerheads, and sprinkler spray bodies will provide more than 85% of the utility bill savings to consumers in 2035. These three standards will save more than 3 billion gallons of water each year.

We encourage you to support this bill.

Sincerely,



Lauren Urbanek  
Senior Energy Policy Advocate  
Climate and Clean Energy Program



	Potential annual utility bill savings (million 2017\$)		Net present value savings (million 2017\$)	Benefit-cost ratio	Payback period (years)
	In 2025	In 2035			
Computers and computer monitors	7.5	9.5	63.9	5.7	0.9
Faucets	10.4	24.5	178.5	no cost	0.0
High CRI fluorescent lamps	2.3	0.8	14.2	7.8	0.9
Showerheads	6.3	14.9	109.2	no cost	0.0
Spray sprinkler bodies	11.8	27.1	171.6	8.0	1.1
<b>Total</b>	<b>38</b>	<b>77</b>	<b>537</b>	<b>14.4</b>	<b>-</b>

Assuming a compliance date of 2021. Net present value savings take into account both utility bill savings and estimated impacts on product costs for items sold between 2021 and 2035. Totals may not sum due to rounding. The total benefit-cost ratio is calculated as the present value of the total utility bill savings from products sold through 2035 divided by the present value of the total additional costs.

**NATURAL RESOURCES DEFENSE COUNCIL**



Dear Chair Baker, Vice Chair Chang, and members of the Committee,

As an organization concerned about the environmental and health impacts of our current energy use, we urge the Hawaii legislature to help conserve energy by supporting SB1323, which would establish energy efficiency standards for a set of commonly used appliances, electronics and other products in the state of Hawaii.

Our current energy practices harm our environment, our climate and our health. The cleanest form of energy is the energy we don't consume in the first place-- using energy more efficiently means less pollution and a healthier climate, planet and population.

Adopting efficiency standards for appliances and household products would significantly reduce Hawaii's energy and water consumption, help prevent air and water pollution and climate-altering carbon emissions; while saving consumers money. In Hawaii alone, by 2025, the recommended appliance efficiency standards would annually:

- Save enough electricity to power over 14,000 average U.S. homes for a year.
- Save as much water as the annual water consumption of 10,000 average U.S. households
- Prevent 56,000 metric tons of CO<sub>2</sub> from entering our atmosphere; the equivalent of taking over 12,150 cars off the road each year.
- Prevent 188 tons of NO<sub>x</sub> emissions; a smog-forming emission and potent respiratory irritant.
- Prevent 196 tons of SO<sub>2</sub> emissions; the main component of acid rain that irritates the respiratory tract and increases the risk of respiratory tract infections.\*\*

And as an added bonus, appliance efficiency standards would annually save Hawaii consumers \$50 million by 2025. These numbers would then increase, yielding annual savings of \$106 million by 2035.

With many of our leaders in Washington D.C. failing to act, local and state governments need to lead. Appliance efficiency standards represent a tangible way for Hawaii to reach its environmental, climate and clean energy objectives. By adopting appliance efficiency standards we can reduce pollution and save our residents money. We support SB1323 and we urge the Hawaii legislature to support it as well.

Sincerely,

A handwritten signature in black ink that reads "Alexandra E. Astor".

Alexandra E. Astor  
Clean Energy Associate, Environment America

*\*\*Numbers are based on Appliance Standards Awareness Project statistics and Environment America calculations*

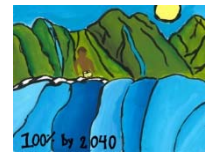
**SB-1323**

Submitted on: 2/21/2019 8:44:19 AM

Testimony for CPH on 2/22/2019 9:35:00 AM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Melodie Aduja	Testifying for O`ahu County Committee on Legislative Priorities of the Democratic Party of Hawai`i	Support	No

Comments:



## SENATE COMMITTEE ON COMMERCE, CONSUMER PROTECTION, AND HEALTH

February 22, 2019, 9:35 A.M.

Room 229

(Testimony is 6 pages long, including attachment)

### TESTIMONY IN STRONG SUPPORT OF SB 1323

Aloha Chair Baker, Vice Chair Chang, and Committee members:

Blue Planet Foundation **strongly supports** Senate Bill 1323, which sets in motion the adoption of state appliance efficiency standards that can lead to substantial savings (up to \$537 million in cumulative net utility bill savings over 15 years) for Hawaii residents and businesses.

**Senate Bill 1323 is an important measure that helps protect consumers from energy wasting appliances that drive up utility bills** by adopting a “starter suite” of appliance standards that are cost-effective and easy to implement.

Hawaii businesses and residents pay the highest electricity rates in the nation, which exacerbates our already high cost of living. Appliance efficiency standards are a low-hanging-fruit policy that can provide economic relief to Hawaii’s small businesses and struggling families. We have provided a fact sheet on the benefits of appliance efficiency standards for Hawaii along with this testimony.

## What are appliance efficiency standards?

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Appliance and equipment standards specify the minimum energy and/or water efficiency levels of specific products. Many large household appliances—like refrigerators, washers, and dryers—are regulated by national standards. Action at the state level was the catalyst for national policy. Most of the products now covered by national standards were first subject to state standards. For example, California, New York, and Florida refrigerator standards in the 1970s and 1980s were the basis of and a catalyst for the 1987 national refrigerator standards.

By adopting state appliance efficiency standards, states can fill in the gaps on appliances that aren’t regulated by the federal government. While doing so, they also decrease energy use, save consumers and businesses money, and reduce greenhouse gas emissions and other pollutants.

Many states have already adopted appliance efficiency standards, including California (the leader on state appliance standards), Connecticut, New Hampshire, New York, Oregon, Rhode

Island, Vermont, and Washington. **Adopting state appliance efficiency standards is also a priority initiative for the U.S. Climate Alliance to accelerate climate action.**<sup>1</sup>

## Hawaii has the biggest opportunity for significant savings

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Lights and appliances are far more efficient than they were just years ago. Yet energy-wasting devices are still being sold because Hawaii lacks consumer protection standards for energy efficiency in appliances. As a result, manufacturers can offload in Hawaii the noncompliant appliances that they cannot sell in other states that have adopted standards—and once these products are shipped to Hawaii, they rarely leave.

In 2017, a national study<sup>2</sup> found that Hawaii could achieve the most savings of any state by adopting state-level appliance efficiency standards, up to \$1 billion in electricity costs over 20 years, depending on the suite of appliance standards adopted—or about \$215 annually per household—with a payback that is 14 times more than the cost.

Although Senate Bill 1323 proposes a smaller “starter” subset of appliance standards than recommended in the national study, the saving potential is still substantial: \$537 million in cumulative utility bill savings over 15 years for Hawaii,<sup>3</sup> not to mention the corresponding kilowatt-hour savings that can help the state meet its energy efficiency portfolio standards, and carbon emissions reductions that can help us meet our climate goals under the Paris Agreement (Act 32 of 2017). On an annual basis, the savings equate to \$38 million each year by 2025, and doubling to \$77 million each year by 2035.<sup>4</sup>

## Appliance standards are cost-effective

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A number of the products in SB 1323 have **no incremental cost**, meaning that they don’t cost more than inefficient models and **consumers will start saving right away**. For others, utility bill savings pay back the small incremental cost of products meeting the standards within a few

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<sup>1</sup> See <https://www.usclimatealliance.org/about-initiatives/>.

<sup>2</sup> See Joanna Mauer, Andrew deLaski, and Marianne DiMascio, *States Go First: How States Can Save Consumers Money, Reduce Energy and Water Waste, and Protect the Environment with New Appliance Standards*, available at <https://appliance-standards.org/sites/default/files/States%20Go%20First.pdf>.

<sup>3</sup> See Appliance Standards Awareness Project, *2019 State Appliance Standards Recommendations – Savings estimates for Hawaii*, available at [https://appliance-standards.org/sites/default/files/state\\_savings\\_state\\_standards/Hawaii.pdf](https://appliance-standards.org/sites/default/files/state_savings_state_standards/Hawaii.pdf) (providing updated saving figures for Hawaii for 2019).

<sup>4</sup> *Id.*

months to one year. After that, savings accrue to the consumers over the lifetime of the product. Refer to Blue Planet Foundation's enclosed fact sheet for a breakdown of incremental costs.

## Senate Bill 1323 is ready to implement

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The standards referenced in SB 1323 are also easily implementable for the government agency tasked with oversight. This is because: (1) the standards are applicable to readily available products—i.e. products and technologies meeting the standards are readily available today from multiple manufacturers, and (2) other states have already done the lion's share of work to set the appropriate standards and shift manufacturers' behavior and compliance.

The proposed standards are largely modeled after California's already existing and enforced standards, meaning that the manufacturers have already adapted to the testing, certification, and labeling requirements for selling energy efficient products in California. Consequently, Hawaii can merely piggyback off of these standards for easy implementation without a heavy lift for the local government agency tasked with oversight. This could take the form of **collaborative enforcement with California**—i.e. when California sends enforcement letters to manufacturers, it could easily note that certain appliances may also not be sold in Hawaii.

## A critical backstop if federal standards are repealed

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Senate Bill 1323 also includes an important backstop provision to adopt federal appliance energy efficiency and water conservation standards as Hawaii state standards in the event that the federal standards are repealed or withdrawn. With uncertainty at the national level, this is a real concern for Hawaii consumers who pay the highest electricity rates in the nation.

This backstop provision is a safeguard for Hawaii consumers and sends a powerful message: If national standards go away, Hawaii will step into the breach and continue to use this proven tool to protect consumers and the environment.

## Conclusion

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Energy efficiency is the cheapest, quickest, and cleanest way to accelerate Hawaii's transition to 100% renewable energy. Adopting state appliance efficiency standards is a cost-effective, easily implementable, and proven policy to accelerate our clean energy goals while saving consumers money.

We respectfully request that the Committee forward SB 1323 as a critical consumer protection policy to the benefit of Hawaii's families and businesses. We are happy to work with the

Committee and key stakeholders on any proposed amendments to the bill to ensure that Hawaii consumers can benefit from these substantial savings.

Thank you for the opportunity to testify.

# Hawaii Appliance Efficiency Standards

SB 1323 / HB 556

## Basics of appliance efficiency standards

HAWAII BUSINESSES AND RESIDENTS PAY THE HIGHEST ELECTRICITY RATES IN THE NATION. EFFICIENCY STANDARDS ENSURE THAT THE PRODUCTS WE PURCHASE USE LESS ENERGY AND WATER WHILE ENSURING QUALITY, AFFORDABILITY, AND PROGRESS TOWARD OUR CLEAN ENERGY AND CLIMATE GOALS.

- Set a minimum level of energy and water efficiency for certain household and commercial appliances.
- Piggyback off of California standards for easy implementation.
- Provide substantial savings for consumers and businesses.
- Encourage innovative water- and energy-saving technologies.
- Protect consumers against manufacturers who would otherwise sell the less efficient appliances that they can't sell in markets without such protections.

"Those savings are particularly important for low-income households, who struggle to pay their energy bills and are too often faced with termination of vital utility services due to non-payment."

— Charlie Harak, National Consumer Law Center

## \$537 MILLION

NET UTILITY BILL SAVINGS HAWAII CONSUMERS AND BUSINESSES COULD SEE OVER 15 YEARS IF THE PROPOSED STANDARDS ARE ADOPTED.

### AFFORDABILITY

Consumers and businesses save money on utility bills

### JOBS

Local economies get a boost when consumers have more spending money.

### CLEAN ENERGY

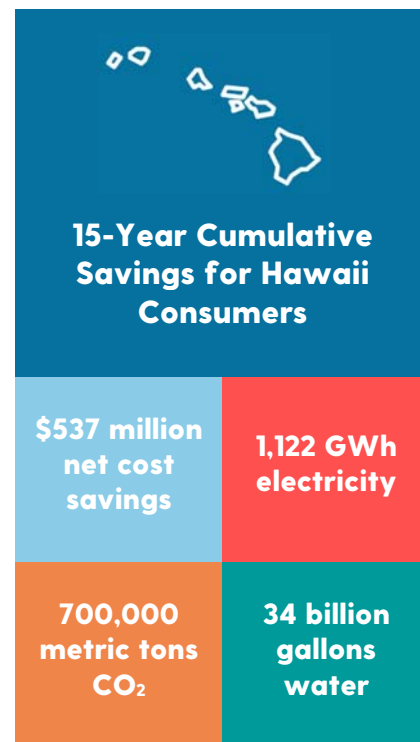
Reducing air pollutants and greenhouse gas emissions improve public health and accelerate progress toward meeting our clean energy and climate mitigation targets.



## Cost-effective and ready to implement

The standards proposed in SB 1323 and HB 556 are:

- **COST EFFECTIVE:** A number of the products in the bill have no incremental cost, meaning that they don't cost more than inefficient models and consumers will start saving right away. For others, utility bill savings pay back the small incremental cost of products meeting the standards within a few months to one year. After that, savings accrue to the consumers over the lifetime of the product.
- **APPLICABLE TO READILY AVAILABLE PRODUCTS:** Products and technologies meeting the standards are readily available today from multiple manufacturers.
- **IMPLEMENTABLE AT LOW COST:** Each standard is ready to implement because other states are already using or proposing identical standards.



Savings for Hawaii consumers						
	Average lifetime (years)	Per-unit incremental cost (\$)	Per-unit annual savings		Per-unit annual utility bill savings in 2021 (\$/yr)	Lifecycle cost savings (\$)
			Electricity (kWh/yr)	Water (gallons/yr)		
<b>Computers and monitors</b>						
<i>Desktops</i>	5	\$14.27	49	--	\$15.38	\$51.28
<i>Notebooks</i>	4	\$1.02	4	--	\$1.13	\$2.92
<i>Monitors</i>	7	\$5.10	28	--	\$8.69	\$44.17
<b>Faucets</b>						
<i>Residential lavatory</i>	10	\$0	54	651	\$23.67	\$180.39
<i>Kitchen</i>	10	\$0	210	2,543	\$92.53	\$705.23
High CRI fluorescent lamps	15	\$4.34	12	--	\$3.90	\$35.75
Showerheads	10	\$0	303	2,503	\$121.04	\$919.79
Spray sprinkler bodies	9	\$3.34	--	299	\$3.13	\$19.43

**Notes:** Faucet and showerhead savings assume an electric water heater. High CRI fluorescent lamp costs and savings assume a Type A LED replacement lamp. Lifecycle cost savings are equal to the present value of the lifetime utility bill savings minus the present value of the incremental cost for a product purchased in 2021. Savings and costs are discounted to 2019 using a discount rate of 5%.



CONTACT: [info@blueplanetfoundation.org](mailto:info@blueplanetfoundation.org); (808) 954-6161

Savings calculations provided by *Appliance Standards Awareness Project (ASAP)*, [appliance-standards.org](http://appliance-standards.org)

[info@blueplanetfoundation.org](mailto:info@blueplanetfoundation.org)

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## Consumer Federation of America

February 19, 2019

Senator Rosalyn H. Baker, Chair  
Senate Committee on Commerce,  
Consumer Protection and Health  
Hawaii State Legislature

Senator Stanley Chang, Vice Chair  
Senate Committee on Commerce, Consumer  
Protection and Health  
Hawaii State Legislature

Submitted via: <https://www.capitol.hawaii.gov/submittestimony.aspx>

RE: Support for SB 1323, Relating to appliance efficiency standards

Dear Chair Baker and Vice Chair Chang, and members of the Committees:

The Consumer Federation of America (CFA) is writing in support of SB 1323, appliance efficiency standards legislation. We are pleased your committee is holding a hearing on this bill which will benefit consumers and help protect them from higher utility bills.

By way of background, CFA is an association of more than 250 nonprofit consumer organizations that was established in 1968 to advance the consumer interest through research, advocacy, and education. We have long advocated for cost-effective energy and water efficiency standards at the state and federal levels as they benefit consumers through lower utility bills.

We strongly support SB 1323, which would adopt energy and water efficiency standards for 5 consumer products that are estimated to save Hawaiians approximately \$537 million between 2021 and 2035. With Hawaii's highest-in-the-nation electricity prices and high per household water use, SB 1323 is a great opportunity to reduce energy and water waste and lower consumer utility bills.

The bill would adopt minimum efficiency standards for computers and computer monitors, faucets, showerheads, spray sprinkler bodies, and high CRI fluorescent lamps using standards already set or under development by the California Energy Commission (CEC). According to a recent analysis by the Appliance Standards Awareness Project, this bill could save up to \$38 million on utility bills for Hawaiians in 2025 and reduce water consumption by nearly 1.5 billion gallons. As more and more consumers purchase the efficient products compliant with standards proposed in SB 1323, annual savings would grow, reaching nearly \$77 million and 3.2 billion gallons of water annually in 2035.

Aligning Hawaii standards with those in place or under development in California allows Hawaii to take advantage of a significant body of work already completed. CEC develops

standards through a thorough rulemaking process and currently maintains a database of compliant products that other states are able to use.

Passing SB 1323 will cut energy and water waste, save consumers and businesses money and reduce greenhouse gases. Because Hawaii can take advantage of work already completed by other states, the effort to implement such standards in Hawaii can be minimal. CFA urges you to adopt this cost-effective, pro-consumer bill—it's a win-win-win opportunity for Hawaii.

Thank you for your consideration.

Sincerely,

A handwritten signature in black ink that reads "Mel Hall-Crawford". The signature is written in a cursive, flowing style.

Mel Hall-Crawford  
Director of Energy Programs  
Consumer Federation of America



**TESTIMONY OF TINA YAMAKI  
PRESIDENT  
RETAIL MERCHANTS OF HAWAII  
February 22, 2019**

**Re: SB 827 Relating to Consumer Protection**

Good morning Chairperson Baker and members of the Senate Committee on Commerce, Consumer Protection and Health. I am Tina Yamaki, President of the Retail Merchants of Hawaii and I appreciate this opportunity to testify.

The Retail Merchants of Hawaii (RMH) as founded in 1901 and is a statewide, not for profit trade organization committed to the growth and development of the retail industry in Hawaii. The retail industry is one of the largest employers in the state, employing 25% of the labor force.

We are opposed to SB 1323 Relating to Appliance Efficiency Standards. This measure requires the Department of Commerce and Consumer Affairs to adopt state appliance efficiency standards.

We are wondering why Hawaii is duplicating what the Federal Government's Department of Energy has already done through their Appliance and Equipment Standard Program that is in place through the Building Technologies Office (BTO). This office already implements minimum energy conservation standards for a wide range of appliances and equipment used in residential and commercial buildings.

It is our understanding that the appliance and equipment efficiency standards are developed and proposed as federal regulations, with input from manufacturers, energy experts, consumer advocates and other stakeholders. Perpetual regular updates of the standards are done to ensure continuous improvement.

We are also wondering if the State Department of Commerce and Consumer Affairs has the manpower and expertise and can we afford to implement this measure and to maintain the current updates. We believe that there costs that are involved with the testing and implementing of this measure.

In addition, when new state appliance standards go into effect, they would prohibit the production, import or sale of products that do not meet the state's minimum efficiency requirements. This would limit the consumer choice of products that are available in Hawaii but can be purchased in other states.

Mahalo again for this opportunity to testify.

February 22, 2019

Senator Rosalyn Baker  
Chair, Senate Committee on Commerce, Consumer Protection and Health  
Hawaii State Capitol Room 230  
Honolulu, HI 96813

**Re: CTA Comments on SB 1323 – Relating to Energy Efficiency – COMMENTS**

Dear Senator Baker:

The Consumer Technology Association™ (CTA) appreciates the opportunity to provide comments to the Senate Committee on Commerce, Consumer Protection and Health regarding a specific section of [Senate Bill 1323](#) that CTA feels is problematic. **CTA respectfully requests the removal of language in Section 196-C at page 7, lines 7-8. This grants broad authority to the Department of Commerce and Consumer Affairs to establish energy efficiency standards for products not specifically approved by the Hawaii legislature.** While CTA appreciates the Legislature’s leadership in the area of energy efficiency, the broad authority language in Section 196-C is concerning given policies and initiatives currently exist for consumer technology that result in real savings for consumers, while at the same time protecting consumer choice and industry innovation.

CTA is the trade association representing the U.S. consumer technology industry, which supports more than 15 million U.S. jobs. Our membership includes more than 2,200 companies – 80 percent are small businesses and startups; others are among the world’s best known manufacturer and retail brands. For many years, CTA has supported and advanced energy efficiency in consumer technology as part of the industry’s broader commitment to environmental sustainability. CTA has advanced energy efficiency with a variety of initiatives related to public policy, consumer education, research and analysis, and industry standards. Regarding public policy, we advocate for approaches that are national, voluntary, market-oriented, globally harmonized, flexible to keep pace with technology, and friendly to innovation and economic growth.

**CTA does not support the expanded authority granted in SB 1323.** Consumer technology products are already an energy efficiency success story as demonstrated in our comments below. We are concerned that the language at page 7, lines 7-8 provides a blanket authorization to the Department of Commerce and Consumer Affairs “to establish standards for products not specifically listed in section 196-D” and feel that it will not ultimately result in more energy efficiency and cost savings for Hawaii consumers.

Section 196-C would grant new authority to the Department to create mandatory standards and regulations for virtually any electronic or electrical product. For high tech products, such government standards are not only damaging to technology innovation and design, they ultimately harm consumers and limit their choice of consumer electronics products, features and services. CTA believes that it would

be more prudent for the Legislature to revisit the implementation of this program if enacted, and retain oversight over evaluating the program before adding an unlimited range of products to it.

**Consumer electronics are already an energy efficiency success story.** A recent study commissioned by CTA and produced by Fraunhofer USA finds the number of tech devices in U.S. homes has increased 21 percent since 2010, but those devices now account for *25 percent less* residential energy consumption over that same time.<sup>1</sup> This landmark energy efficiency achievement is due to the consumer tech industry's investments in lightweight materials and energy efficient technologies, as well as the convergence of multi-functional devices and continuous innovation. These achievements weren't accomplished through mandated state or federal requirements.

Televisions are an excellent example of consumer technology's major energy efficiency strides. A television's annual in-home energy consumption declined 30 percent from 2013 to 2017 – the average cost to power a television in the U.S. is now less than five cents a day.<sup>2</sup> LCDs alone consume 76 percent less energy (per screen area) in 2015 than they did in 2003.<sup>3</sup> These major strides are driven by competition, consumer demand, and voluntary, market-oriented programs like ENERGY STAR. They have not been driven by government governments mandates.

In addition to the above accomplishments for televisions, CTA has pursued voluntary agreements on energy efficiency. A voluntary agreement for set-up boxes resulted in consumer savings of nearly \$2.1 billion since it was signed in 2013 with nearly 99 percent of new set-top boxes meeting its energy standards. A similar industry agreement for home internet equipment has increased the energy efficiency of more than 98 percent of consumer broadband equipment purchased and sold in the U.S. in 2016.<sup>4</sup>

**Conclusion:** CTA and its members are firmly committed to energy efficiency across our industry. We continue to work with policymakers across the U.S. and globally to urge innovation-friendly, voluntary and market-oriented approaches to energy efficiency for consumer electronics that have proven successful. We've also developed new approaches –industry-led voluntary agreements– that go beyond existing programs to capture additional energy savings in rapidly-evolving product categories.

Industry and policymakers share the goal of energy efficiency and conservation, but there are many paths to that goal. We do not believe that the approach outlined in Section 196-C at page 7, lines 7-8 of SB 1323 is the path to get there. CTA respectfully requests the Committee remove language in Section 196-C at page 7, lines 7-8.

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<sup>1</sup> Urban, Roth, Singh, & Howes. "Energy Consumption of Consumer Electronics in U.S. Homes in 2017". December 2017. Available at: <http://www.cta.tech/cta/media/policyImages/policyPDFs/Energy-Consumption-of-Consumer-Electronics-in-U-S-Homes-in-2017.pdf>

<sup>2</sup> Urban, Roth, Singh & Howes. December 2017.

<sup>3</sup> Urban & Roth. "LCD Television Power Draw Trends from 2003 to 2015". May 2017. Available at: <http://www.cta.tech/cta/media/policyImages/policyPDFs/Fraunhofer-LCD-TV-Power-Draw-Trends-FINAL.pdf>

<sup>4</sup> For additional information, visit <https://www.energy-efficiency.us/>.

CTA Comments on SB 1323 - COMMENTS

February 22, 2019

Please do not hesitate to contact us with any questions or requests for additional information.

Sincerely,

A handwritten signature in black ink, appearing to read 'Katie Reilly', written in a cursive style.

Katie Reilly

Senior Manager, Environmental and Sustainability Policy

[kreilly@cta.tech](mailto:kreilly@cta.tech)

O: 703-907-5222

C: 703-625-0054

**CALIFORNIA ENERGY COMMISSION**

1516 NINTH STREET  
SACRAMENTO, CA 95814-5512  
www.energy.ca.gov



February 19, 2019

Senator Rosalyn H. Baker, Chair  
Committee on Commerce, Consumer Protection, and Health  
Hawaii State Legislature, Honolulu HI  
**via [www.capitol.hawaii.gov/submittestimony.aspx](http://www.capitol.hawaii.gov/submittestimony.aspx)**

Senator Stanley Chang, Vice Chair  
Committee on Commerce, Consumer Protection, and Health  
Hawaii State Legislature, Honolulu HI  
**via [www.capitol.hawaii.gov/submittestimony.aspx](http://www.capitol.hawaii.gov/submittestimony.aspx)**

RE: SUPPORT OF SB 1323, RELATING TO APPLIANCE EFFICIENCY  
STANDARDS

Dear Chair Baker, Vice Chair Chang, and Honorable Members of the Senate  
Committee:

The California Energy Commission is California's primary energy policy and planning agency. Since 1976, the Energy Commission has set cost-effective and technically feasible appliance standards to improve the efficiency and reduce the energy use of appliances in the state. These standards have saved Californians billions of dollars in utility costs and helped keep the state's energy demand relatively flat, even as demand grew in the rest of the country, reducing the need for new power plants and avoiding emissions from electricity generation derived from fossil fuels.

As the Lead Commissioner for Efficiency at the Energy Commission, I write to support enactment of SB 1323. These bills would establish appliance efficiency standards that require everyday products sold in Hawaii to meet minimum energy or water efficiency standards. Three of the standards proposed in SB 1323 have been adopted by the Energy Commission and are currently in effect: computers and monitors, faucets, and showerheads. For high color rendering index (CRI) fluorescent lamps and spray sprinkler bodies, the Energy Commission has begun its rulemaking process to adopt standards for these products in California as well and looks forward to joining the multi-state effort to improve their efficiency in the absence of federal action. By California statute, appliance efficiency standards adopted in California must save consumers money over the lifetime of the appliance. The appliance efficiency standards proposed



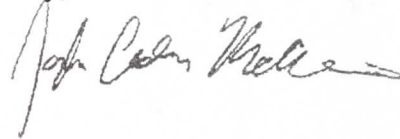
Senator Baker  
Senator Chang  
February 19, 2019  
Page 2

in SB 1323 will save Hawaii consumers and businesses a projected \$38 million annually in lower utility bills by 2025.

We offer our support to Hawaii in responding to any implementation challenges associated with appliance efficiency standards that California has adopted. The Energy Commission maintains a publicly searchable database of products certified to the Commission as compliant with California standards, which may be useful to Hawaii in its implementation of appliance efficiency standards (<https://cacertappliances.energy.ca.gov/Pages/Search/AdvancedSearch.aspx>). We also support the efforts to protect against repeal of federal appliance standards. California has similar provisions in its appliance efficiency regulations.

Thank you for considering our input and please let us know if there is any additional information that California can offer to support the adoption and implementation of the appliance efficiency measures in SB 1323.

Sincerely,

A handwritten signature in black ink, appearing to read "John Andrew McAllister", written in a cursive style.

J. ANDREW MCALLISTER, Ph.D.  
Commissioner



1111 19th Street NW > Suite 402 > Washington, DC 20036  
t 202.872.5955 f 202.872.9354 www.aham.org

## TESTIMONY

KEVIN MESSNER  
SENIOR VP, POLICY & GOVERNMENT RELATIONS

ON BEHALF OF  
THE ASSOCIATION OF HOME APPLIANCE MANUFACTURERS

BEFORE THE HAWAII STATE LEGISLATURE  
SENATE COMMITTEE ON COMMERCE, CONSUMER PROTECTION, AND HEALTH

HEARING  
SB 1323  
RELATING TO APPLIANCE EFFICIENCY STANDARDS

FEBRUARY 22, 2019

Chairwoman Baker, Vice Chair Chang, and Members of the Committee, I appreciate the opportunity to provide testimony on SB 1323, relating to creating new energy efficiency standards. **The Association of Home Appliance Manufacturers (AHAM) is opposed to SB 1323.**

AHAM represents manufacturers of major, portable and floor care home appliances, and suppliers to the industry. AHAM's membership includes over 150 companies throughout the world. In the U.S., AHAM members employ tens of thousands of people and produce more than 95% of the household appliances shipped for sale. The factory shipment value of these products is more than \$30 billion annually. The home appliance industry, through its products and innovation, is essential to improving a person's lifestyle and health, and saving people time. Through its technology, employees, and productivity, the industry contributes significantly to U.S. jobs and economic security. Home appliances also are a success story in terms of energy efficiency and environmental protection. New appliances often represent the most effective choice a consumer can make to reduce home energy use and costs.

We appreciate that Hawaii is striving to improve energy efficiency. As leaders in energy efficiency and active participants in efficiency matters before the U.S. Department of Energy, AHAM has a particular interest in S.B. 1323. We oppose section 196-C, which provides a blanket authorization to the Department of Commerce and Consumer Affairs "to establish standards for products not specifically listed in section 196-D." The Hawaii State Legislature should consider whether it is appropriate to permanently transfer its oversight and expertise on appliance efficiency standards to a state agency in such a broad way. In addition, developing efficiency standards require a lot of resources to do it correctly. Even if the legislature would decide to risk providing such blanket authority to the department, the increased budget to implement it should be considered. Also, there should be some sort of limits to this authority, such as requiring a certain threshold of energy savings, cost-benefit criteria, and impacts on consumers and manufacturers. These types of thresholds are found in federal law, which has a long history and experience with establishing minimum energy standards for decades.

Further, AHAM does not support, nor do we see the value in Hawaii attempting to duplicate California standards. Since our members have a national market share that provides an incentive to adhere to California's standards, states, including Hawaii, will automatically experience the energy savings generated by our sectors' compliance with the California standards. S.B. 1323 unnecessarily creates a significant administrative burden on all stakeholders, including the department, for the state to amend Hawaii's rules to adhere to California's constantly evolving modifications.

AHAM appreciates the opportunity to comment on the Hawaii Senate Bill 1323 and would be glad to further discuss these matters.



**Young Democrats of Hawaii**  
Democratic Party of Hawaii

**Testimony presented before the Committee on Commerce, Consumer Protection, and Health**  
**Friday, February 22, 2019 at 9:35 a.m.**  
**Conference Room 229**

**Senate Bill 1323**

Dear Chair Baker, Vice Chair Chang and members of the Committee:

Senate Bill 1323 requires the Department of Commerce and Consumer Affairs to adopt state appliance efficiency standards. In January 2019 the Young Democrats of Hawaii conducted a member survey to identify and prioritize important issues facing young people today. Taking action on climate change was identified as one of the top three issues. YDHI members recognize that the impacts of climate change are already being felt throughout the world and in the State of Hawaii, and that actions must be taken immediately to ensure a viable future for all of Hawaii residents. The Young Democrats of Hawaii **strongly supports** the passing of Senate Bill 1323 for the following reasons:

- 1) Hawaii residents already face one of the highest costs of living in the nation, including the highest electricity price. Energy efficient appliances will allow consumers to reduce their monthly utility bills as well as reduce greenhouse gas emissions that contribute to climate change.
- 2) SB1323 will help Hawaii meet its goal of 100% clean energy by 2045 as well as the Paris Agreement. When the federal government decided to step away from the Paris Agreement in 2017, the State of Hawaii became the first state to enact legislation to implement the goals of the global accord. Hawaii must continue to lead by example for the rest of the nation and the world in climate change mitigation.

Thank you for the opportunity to testify.

Sincerely,

Executive Committee  
Young Democrats of Hawaii



February 14, 2019

Senator Ronald D. Kouchi  
District 8  
Hawaii State Capitol  
415 South Beretania Street  
Room 409  
Honolulu, HI 96813

[senkouchi@capitol.hawaii.gov](mailto:senkouchi@capitol.hawaii.gov)

**PMI 2019  
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Lavelle Industries, Inc.

**Carol Baricovich**  
InSinkErator

**RE: HAWAII SB 1323 – APPLIANCE EFFICIENCY STANDARDS**

Dear Senator Kouchi:

Plumbing Manufacturers International (PMI) appreciates this opportunity to provide comments regarding Hawaii SB 1323 that looks to adopt appliance efficiency standards for faucets and showerheads within the State of Hawaii that are modeled after Title 20 of California’s Code of Regulations.

PMI is an international, U.S.-based trade association representing manufacturers that provide 90% of the plumbing products sold in the United States. PMI members manufacture water-efficient toilets, urinals, faucets, showerheads and other plumbing products at more than 70 locations across the country for the residential and commercial marketplace. These products are readily available at home improvement stores, hardware stores and showrooms in all 50 states, as well as online. In Hawaii, plumbing manufacturers contribute \$234 million to the economy, provide more than 1500 good paying jobs with their wholesale and retail partners, and generate \$74.8 million in wages.

PMI has made the promotion of water safety and efficiency a top priority and have included this in our mission statement<sup>1</sup>. PMI’s members are industry leaders in producing safe, reliable and innovative water efficient plumbing technologies and have supported the U.S. EPA WaterSense® program since its inception.

Regarding the proposed bill, PMI **opposes** the bill as currently drafted and would like to bring to your attention the following comments for your consideration (**Please note:** PMI’s proposed text changes are indicated in **red**):

- Based on recent research that was funded by the California Energy Commission and conducted by Gary Klein and Associates, Inc. titled: *“Code Changes and Implications of Residential Low*

<sup>1</sup>PMI’s Mission: To promote the water efficiency, health, safety, quality and environmental sustainability of plumbing products while maximizing consumer choice and value in a fair and open marketplace. To provide a forum for the exchange of information and industry education. To represent openly the members’ interests and advocate for sound environmental and public health policies in the regulatory/legislative processes. To enhance the plumbing industry’s growth and expansion.

*Flow Hot Water Fixtures,” Mr. Klein submitted a letter (click [here](#) to view) to the State of Washington that is also looking to reduce the water consumption levels for showerheads, lavatory faucets and kitchen faucets to match those used in California. In the letter, Mr. Klein states the following:*

***“Our research found that reducing flow rates without a corresponding reduction in pipe sizing does not save water in proportion to the change in flow rate. In fact, lowering flow rates of showers actually increases the waste of water while waiting for the hot water to arrive, eating up much of the savings that accrue during the shower itself. We also found that lavatory and kitchen faucets are rarely used at full flow – this is reserved for filling pots or the sink basin itself. Faucets are typically opened to the flow rate needed for the task at hand, which is often less than half of the rated flow. As with showers, lowering faucet flow rates will not save water or energy in proportion to the change in flow rate; mostly it will increase the time it takes to fill pots.”***

***“There are unintended consequences to public health that can come from reducing flow rates without a corresponding reduction in pipe size. Lower flow rates increase the residence time of the water in the piping from the time it leaves the water treatment plant until it arrives at the building as well as within the building itself. This changes the dosing schedule for disinfection applied at the water treatment plant, generally increasing the amount that is needed to ensure that enough arrives at distant buildings, and ultimately at distant fixtures within those buildings. Lower flow rates and smaller water volumes also impact the functioning of the entire waste water treatment system.”***

- Based on the November 2017 white paper titled: *“Adapting to Change: Utility Systems and Declining Flows”*<sup>2</sup>, where issues with California’s drinking water, wastewater and recycled-water infrastructures have been highlighted due to reductions in indoor water use, PMI believes that the State of Hawaii should first analyze the impact on its infrastructures before lowering the water consumption levels of plumbing fixtures and fixture fittings below current state levels. Without such an analysis, there could be possible risks to public health.
- If the State of Hawaii decides to lower the water consumption levels of private lavatory faucets and showerheads below current state levels, PMI believes that the state should adopt maximum flow rates of 1.5 gpm for private lavatory faucets (which includes residences and private restrooms in hotels and hospitals) and 2.0 gpm for showerheads that are consistent with the EPA WaterSense® program. Such requirements will ensure that private lavatory faucets are not only 30% more water efficient, and for showerheads 20% more water efficient, then federal regulations (or what is currently permitted in Hawaii), but are also required to meet high performance standards.
- On page 9, lines 5 - 8 and 16 – 19, under Section 196-E (Appliance efficiency standards), if the State of Hawaii decides to lower the water consumption levels of faucets and showerheads, the appropriate test procedures for such plumbing products should be referenced in the bill to

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<sup>2</sup> “Adapting to Change: Utility Systems and Declining Flows,” California Association of Sanitation Agencies (CASA), Water Research Foundation (WRF), WaterReuse California, California Water Environment Association (CWEA) and California Water Urban Agencies (CUWA), November 2017, [http://www.cuwa.org/pubs/CUWA\\_DecliningFlowsWhitePaper\\_11-28-17.pdf](http://www.cuwa.org/pubs/CUWA_DecliningFlowsWhitePaper_11-28-17.pdf).

ensure that all faucets and showerheads that are sold and installed in the state have been tested in accordance with federal regulations. Therefore, PMI recommends revising the text as follows:

*(2) Faucets, except for metering faucets, and showerheads must meet the following standards when measured in accordance with the test methods prescribed in 10 CFR Appendix S to Subpart B of Part 430, Uniform Test Method for Measuring the Water Consumption of Faucets and Showerheads:*

- a) Private lavatory faucets and replacement aerators may not exceed a maximum flow rate of 1.5 gallons per minute at 60 pounds per square inch;*
- b) Showerheads may not exceed a maximum flow rate of 2.0 gallons per minute at 80 pounds per square inch;*
- c) Public lavatory faucets and replacement aerators may not exceed a maximum flow rate of 0.5 gallons per minute at 60 pounds per square inch; and*
- d) Residential kitchen faucets and replacement aerators may not exceed a maximum flow rate of 1.8 gallons per minute at 60 pounds per square inch, with optional temporary flow of 2.2 gallons per minute, provided the kitchen faucets and replacement aerators default to a maximum flow rate of 1.8 gallons per minute at 60 pounds per square inch after each use.*

*~~(2) Faucets shall meet the minimum energy efficiency standards set forth in title 20 California Code of Regulations section 1605.1, as in effect on July 1, 2019;~~*

*~~(4) Showerheads shall meet the minimum energy efficiency standards set forth in title 20 California Code of Federal Regulations section 1605.1, as in effect on July 1, 2019; and~~*

- On page 10, lines 12 – 17, under Section 196-F (Implementations), as far as the effective date of the proposed bill, PMI believes that for retailers and distributors to meet the new efficiency standards without incurring excessive costs or hardship, the standards should apply to products manufactured on or after January 1, 2021. Other states, including California, have used this approach which has allowed retailers and distributors to sell through existing inventories while ensuring that products brought into stores on or after the effective date meet the new efficiency standards. PMI recommends revising the text as follows:

*~~(a) On or after January 1, 2021, no No~~ new computer, computer monitor, faucet, high color rendering index fluorescent lamp, showerhead, or spray sprinkler body manufactured on or after January 1, 2021 shall be sold, leased, or rented, or offered for sale, lease, or rent in the State unless the efficiency of the new product meets or exceeds the efficiency standards provided in section 196-E.*

- On page 12, lines 5 – 8, under Section 196-H (Testing, certification, labeling, and enforcement), regarding product identification, all major plumbing codes (including the International Plumbing Code and Uniform Plumbing Code) require plumbing products to be third party certified in accordance with the requirements of applicable industry standards. Plumbing codes also require plumbing products to be marked in accordance with the requirements of the applicable industry standards and the accredited third party certification agency. The industry standard that applies to lavatory faucets and showerheads is ASME A112.18.1/CSA B125.1. This standard requires that lavatory faucets and showerheads be permanently marked

or labeled with the maximum flow rate. Therefore, PMI recommends revising the text as follows:

*(c) Manufacturers of any new products subject to section 196-D shall identify that each product complies with this part by means of a mark, label, or tag in accordance with the requirements of the state plumbing code ~~on a product and its packaging~~ at the time of sale or installation.*

Thank you for considering our comments. If you have any questions regarding our comments, please do not hesitate to contact me.

Sincerely,



Matt Sigler  
Technical Director  
Plumbing Manufacturers International  
Office 847-217-7212  
[msigler@safep plumbing.org](mailto:msigler@safep plumbing.org)

cc: PMI Board of Directors

**PMI Members**

\*Bradley Corporation \*BrassCraft Mfg. Co. \*CSA Group \*Delta Faucet Company \*Dornbracht Americas \*Duravit USA  
\*Fisher Manufacturing Company \*Fluidmaster, Inc. \*Franke \*Global OEM \*Globe Union Group, Inc.\*Hansgrohe, Inc.  
\*Haws Corporation \*IAPMO \*InSinkErator \*International Code Council Evaluation Service \*Jing Mei Industrial (USA) Inc. \*KEROX \*Kohler Co  
\*Lavelle Industries, Inc. \*LIXIL \*Moen Incorporated \*NEOPERL, Inc. \*NSF International \*Pfister \*Reliance Worldwide Corporation \*Similor AG  
\*Sloan Valve Company \*Speakman Company \*Sprite \*Symmons Industries, Inc. \*T & S Brass and Bronze Works, Inc.\*TOTO USA \*Viega LLC  
\*WaterPik \*WCM Industries, Inc





# ELEMENTAL EXCELERATOR

**Written Statement of Elemental Excelerator  
before the Senate Committee on Consumer Protection and Health  
Friday, February 22, 2019**

## **In consideration of SB 1323 RELATING TO APPLIANCE EFFICIENCY STANDARDS**

**Aloha Chair Baker, Vice-Chair Chang, and Members of the Senate Committee on Consumer Protection and Health:**

Elemental Excelerator respectfully submits our **support for SB 1323** which requires the Department of Commerce and Consumer Affairs to adopt state appliance efficiency standards.

Elemental Excelerator is a Honolulu-based growth accelerator program founded and operating in Hawai'i. We have awarded over \$30 million to 82 companies resulting in 56 demonstration projects in Hawai'i & Asia Pacific. Each year, we evaluate over 500 companies and look for innovative entrepreneurs from around the world to come to Hawai'i and find transformative solutions to help us achieve our 100% clean energy goals and solve our most pressing environmental problems. We select 15-20 companies annually that best fit our mission and fund each company up to \$1 million.

In April 2018, Elemental Excelerator commissioned a study entitled *Transcending Oil: Hawai'i's Path to a Clean Energy Economy*. The study found that in Hawai'i, transitioning to renewable energy is cheaper than sticking with fossil fuels like oil. The faster we go, the cheaper it will be.<sup>1</sup>

### **We support SB 1323 for the following reasons:**

- 1. It will support the acceleration of our clean energy goals:** The adoption of state appliance efficiency standards strengthens and reaffirms our state's commitment to its clean energy goals. In 2014, the *Hawai'i Energy Efficiency Potential Study* assessed whether the State is on track to meet the Energy Efficiency Portfolio Standard (EEPS) 2030 goal of 4,300-gigawatt hours (GWh) savings. The assessment found that one-third of the goal could be reached through the adoption of new appliance standards and implementation of updated building codes. The 2014 assessment estimated that Hawai'i's economic energy efficiency potential could be as high as 6,210 GWh by 2030, 44% greater than the current goal.<sup>2</sup>
- 2. It is economically responsible:** A July 2017 study by the Appliance Standards Awareness Project called *States Go First: How States Can Save Consumers Money, Reduce Energy and Water Waste, and Protect the Environment with New Appliance Standards*, identifies potential for \$119 and \$235 per household annual energy and

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<sup>1</sup> Transcending Oil, pg.3, Retrieved from <https://www.transcendingoil.com/>

<sup>2</sup> Hawai'i Energy Efficiency Potential Study. (n.d.). Retrieved from [https://puc.hawaii.gov/wp-content/uploads/2013/04/State\\_of\\_HI\\_Potential\\_Study\\_Final.pdf](https://puc.hawaii.gov/wp-content/uploads/2013/04/State_of_HI_Potential_Study_Final.pdf)

water savings per household in Hawai'i in 2025 and 2035 respectively.<sup>3</sup> This is particularly important, given the findings by Aloha United Way's *ALICE Report* that identifies 48% of households in Hawai'i are "Asset Limited, Income Constrained, and Employed."<sup>4</sup>

3. **It opens up opportunities for innovation to achieve efficiency standards:** Innovation has the potential to reduce the cost of very high levels of renewable energy penetration, through technologies such as advanced storage and high levels of demand response (DR). About 17% of Elemental Excelerator's 82 portfolio companies, such as Hawai'i grown company Pono Home, focus on energy efficiency, demonstrating an increased opportunity to attract innovation with forward-thinking policies.<sup>5</sup>

Mahalo for the opportunity to provide testimony on this legislation.

Sincerely,



Aki Marceau  
Managing Director, Policy & Community - Hawai'i

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<sup>3</sup> Mauer, J., DeLaski, A., & DiMascio, M. (2017, July). States Go First: How States Can Save Consumers Money, Reduce Energy and Water Waste, and Protect the Environment with New Appliance Standards. Retrieved from [https://appliance-standards.org/sites/default/files/States Go First.pdf](https://appliance-standards.org/sites/default/files/States%20Go%20First.pdf)

<sup>4</sup> ALICE: A Study of Financial Hardship in Hawai'i. (2017). Retrieved from <https://www.auw.org/alice>

<sup>5</sup> Pono Home. (n.d.). Retrieved from <https://elementalexcelerator.com/companies/pono-home/>



Healthy Climate  
Communities

**Testimony in support of SB1323**

**SENATE COMMITTEE ON COMMERCE, CONSUMER PROTECTION AND HEALTH**

**Hearing Friday, February 22, 2019 9:35 a.m.**

Aloha Chair Baker, Vice-Chair Chang and Committee Members,

Please support SB1323.

Requiring manufacturers to meet appliance efficiency standards already consistent with current technology will save consumers money and protect our environment. It is a win-win for everyone.

Healthy Climate Communities is devoted to reducing the negative impact of climate change through local education and community action.

Please make this happen for our State.

Mahalo,

Dr. Lisa Marten  
Executive Director  
Healthy Climate Communities  
healthyclimate@hawaii.rr.com



February 20, 2019

Subject: Support for SB 1323, "Relating to Appliance Efficiency Standards"

Aloha Chair Baker, Vice Chair Chang, and members of the Committee,

I am testifying in support of Senate Bill 1323, "Relating to Appliance Efficiency Standards."

I support Hawaii adopting Appliance Efficiency Standards as it will save Hawaii residents \$537 million and 34 billion gallons of water, and prevent the emissions of 700,000 metric tons of carbon dioxide over 15 years.

Products and technologies meeting these standards are readily available today from multiple manufacturers. Most of them have no incremental cost, meaning they do not cost more than inefficient models, and consumers will start saving right away.

These standards are already in place in California, and it would be easy to adopt them here.

In light of these facts, I support the passage of Senate Bill 1323.

Thank you for considering my testimony.

Mahalo,

A handwritten signature in blue ink, appearing to read "Henk B. Rogers". The signature is stylized with a large, sweeping initial "H" and "R".

Henk B. Rogers  
Founder & Chairman  
Blue Planet Foundation  
55 Merchant Street, Suite 1700  
Honolulu, HI 96813

**SB-1323**

Submitted on: 2/20/2019 9:50:46 AM

Testimony for CPH on 2/22/2019 9:35:00 AM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
takeo Izawa	Individual	Support	No

Comments:

**SB-1323**

Submitted on: 2/20/2019 10:44:16 AM

Testimony for CPH on 2/22/2019 9:35:00 AM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Randy Ching	Individual	Support	No

Comments:

Aloha Chair Baker, Vice Chair Chang, and members of the Committee,

I am testifying in support of Senate Bill 1323, "Relating to Appliance Efficiency Standards."

I support Hawaii adopting Appliance Efficiency Standards as it will save Hawaii residents \$537 Million and 34 billion gallons of water, and prevent the emissions of 700,000 metric tons of carbon dioxide over 15 years.

Products and technologies meeting these standards are readily available today from multiple manufacturers. Most of them have no incremental cost, meaning they do not cost more than inefficient models, and consumers will start saving right away.

These standards are already in place in California, and it would be easy to adopt them here.

In light of these facts, I support the passage of Senate Bill 1323.

Thank you for your consideration.

Randy Ching (Honolulu)

**From:** [Chase Livingston](#)  
**To:** [CPH Testimony](#)  
**Subject:** testimony in support of SB1323  
**Date:** Wednesday, February 20, 2019 11:00:55 AM

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Aloha Chair Baker, Vice Chair Chang, and members of the Committee,

My name is Chase and I am in my last semester of law school at Richardson. I study energy law and care deeply about our island home and the people of Hawaii. I am testifying in support of Senate Bill 1323, "Relating to Appliance Efficiency Standards."

I support Hawaii adopting Appliance Efficiency Standards as it will save Hawaii residents \$537 Million and 34 billion gallons of water, and prevent the emissions of 700,000 metric tons of carbon dioxide over 15 years.

Products and technologies meeting these standards are readily available today from multiple manufacturers. Most of them have no incremental cost, meaning they do not cost more than inefficient models, and consumers will start saving right away.

These standards are already in place in California, and it would be easy to adopt them here.

In light of these facts, I support the passage of Senate Bill 1323.

Thank you for considering my testimony.

Chase Livingston  
3007 Herman St. Honolulu. HI 96816

--

Chase Livingston  
William S. Richardson School of Law  
University of Hawai'i at Manoa

P (808) 927-2465 | E [chase2@hawaii.edu](mailto:chase2@hawaii.edu)

**From:** [Pohaku Hebert Garza](#)  
**To:** [CPH Testimony](#)  
**Subject:** Support for SB 1323, "Relating to Appliance Efficiency Standards."  
**Date:** Wednesday, February 20, 2019 10:25:38 AM

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Aloha, members of the committee,

I am testifying in support of Senate Bill 1323, "Relating to Appliance Efficiency Standards."

I support Hawai'i and this bill to help our community and 'Ohana to help preserve what we can and have this land preserve us for a long time. This helpful bill will definitely Malama The 'Aina , to take care of the land.

By Hawai'i adopting Appliance Efficiency Standards, it will save us residents \$537 Million dollars and 34 billion gallons of water. It will prevent the emissions of over 700,000 metric tons of carbon dioxide over 15 years. That is a lot of good change that can be done with this bill.

I hope to see this bill in my and everyone's Life in Hawai'i. I support the passage of Senate Bill 1323.

Mahalo for considering my testimony.

Pohaku Miles Hebert, Honolulu, Hawai'i, 96818



**From:** [Sherrie Totoki](#)  
**To:** [CPH Testimony](#)  
**Subject:** Support for SB 1323, "Relating to Appliance Efficiency Standards"  
**Date:** Wednesday, February 20, 2019 9:39:02 AM

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Aloha Chair Baker, Vice Chair Chang, and members of the Committee,

I am testifying in support of Senate Bill 1323, "Relating to Appliance Efficiency Standards."

I support Hawaii adopting Appliance Efficiency Standards as it will save Hawaii residents \$537 Million and 34 billion gallons of water, and prevent the emissions of 700,000 metric tons of carbon dioxide over 15 years.

Products and technologies meeting these standards are readily available today from multiple manufacturers. Most of them have no incremental cost, meaning they do not cost more than inefficient models, and consumers will start saving right away.

These standards are already in place in California, and it would be easy to adopt them here.

In light of these facts, I support the passage of Senate Bill 1323.

Thank you for considering my testimony.

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Sherrie Totoki  
Honolulu, HI 96825

**From:** [Ian Tierney](#)  
**To:** [CPH Testimony](#)  
**Subject:** Support for SB 1323, "Relating to Appliance Efficiency Standards"  
**Date:** Wednesday, February 20, 2019 10:23:12 AM

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Aloha Chair Baker, Vice Chair Chang, and members of the Committee,

I am testifying in support of Senate Bill 1323, "Relating to Appliance Efficiency Standards."

I support Hawaii adopting Appliance Efficiency Standards as it will save Hawaii residents \$537 Million and 34 billion gallons of water, and prevent the emissions of 700,000 metric tons of carbon dioxide over 15 years.

Products and technologies meeting these standards are readily available today from multiple manufacturers. Most of them have no incremental cost, meaning they do not cost more than inefficient models, and consumers will start saving right away.

These standards are already in place in California, and it would be easy to adopt them here.

In light of these facts, I support the passage of Senate Bill 1323.

Thank you for considering my testimony.

Ian Tierney  
Honolulu, HI 96816

**From:** [Donald Erway](#)  
**To:** [CPH Testimony](#)  
**Subject:** Support for SB 1323, "Relating to Appliance Efficiency Standards"  
**Date:** Wednesday, February 20, 2019 10:17:01 AM

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Aloha Chair Baker, Vice Chair Chang, and members of the Committee,

I am testifying in support of Senate Bill 1323, "Relating to Appliance Efficiency Standards."

I support Hawaii adopting Appliance Efficiency Standards as it will save Hawaii residents \$537 Million and 34 billion gallons of water, and prevent the emissions of 700,000 metric tons of carbon dioxide over 15 years.

Products and technologies meeting these standards are readily available today from multiple manufacturers. Most of them have no incremental cost, meaning they do not cost more than inefficient models, and consumers will start saving right away.

These standards are already in place in California, and it would be easy to adopt them here.

In light of these facts, I support the passage of Senate Bill 1323.

Thank you for considering my testimony.

Donald Erway  
77-6455 Princess Keelikolani Dr.  
Kailua Kona, HI 96740-2419

**From:** [Griffith Jurgens](#)  
**To:** [CPH Testimony](#)  
**Subject:** In support of Senate Bill 1323, "Relating to Appliance Efficiency Standards"  
**Date:** Wednesday, February 20, 2019 10:46:32 AM

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Aloha,

I work in the energy field and have researched and seen first hand how much energy is being wasted due to old or non-efficient appliances. I go into schools 3-4 times per week and see ways that they can be conserving energy every time. And appliances is one of the easiest ways to do so.

I support Hawaii adopting Appliance Efficiency Standards as it will save Hawaii residents \$537 Million and 34 billion gallons of water, and prevent the emissions of 700,000 metric tons of carbon dioxide over 15 years.

Products and technologies meeting these standards are readily available today from multiple manufacturers. Most of them have no incremental cost, meaning they do not cost more than inefficient models, and consumers will start saving right away.

Hawaii is considered the leader when it comes to clean energy in our nation. Other states around the U.S. look to us to see how we are going to reach our goal of 100% clean energy by 2045. This bill would greatly help us achieve our goal.

In light of these facts, **I support the passage of Senate Bill 1323.**

Thank you for considering my testimony.

Griffith Jurgens  
Honolulu, HI 96816

**Griffith Jurgens**  
Education Coordinator  
Blue Planet Foundation  
W: 808.954.6161  
C: 808.753.0960  
[blueplanetfoundation.org](http://blueplanetfoundation.org)

**From:** [Scott Cooney](#)  
**To:** [CPH Testimony](#)  
**Subject:** I support SB 1323  
**Date:** Wednesday, February 20, 2019 11:56:40 AM

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Dear esteemed Committee members,

I'm writing in support of SB 1323. If we can make Hawaii more energy and water efficient, we can keep more money in the state, plain and simple. How much of our money goes out of the state to buy foreign oil for our electrical grid? I, for one, would rather see that money stay right here in the pockets of the citizens of Hawaii. Also, we need to do this to help address global climatic changes that threaten our state's amazing natural resources, because if we lose those, we lose our visitor industry.

I am Scott Cooney, a registered voter and an Oahu resident (Punchbowl area, Honolulu 96813), and local business owner. My company employs 11 people, nine of them here in the state.

Mahalo for supporting SB 1323, for a better future!

-Scott

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Have a great day!

**From:** [John Cheever](#)  
**To:** [CPH Testimony](#)  
**Subject:** Support for SB 1323, "Relating to Appliance Efficiency Standards"  
**Date:** Wednesday, February 20, 2019 1:45:34 PM

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Support for SB 1323, "Relating to Appliance Efficiency Standards"

Aloha Chair Baker, Vice Chair Chang, and members of the Committee,

"Appliance Efficiency Standards" may sound a little dry (no pun intended :) ), but incremental savings spread across hundreds of thousands of homes and potentially millions of appliances (washers, dryers, refrigerators, ovens) can have a monumental impact on our state's energy and water conservation efforts (a tidal wave of conservation and savings, if you will... ;) ).

Therefore, I am testifying in support of Senate Bill 1323, "Relating to Appliance Efficiency Standards."

I support Hawaii adopting Appliance Efficiency Standards as it will save Hawaii residents \$537 Million and 34 billion gallons of water, and prevent the emissions of 700,000 metric tons of carbon dioxide over 15 years.

Products and technologies meeting these standards are readily available today from multiple manufacturers. Most of them have no incremental cost, meaning they do not cost more than inefficient models, and consumers will start saving right away.

These standards are already in place in California, and it would be easy to adopt them here.

In light of these facts, I support the passage of Senate Bill 1323.

Thank you for considering my testimony.

John Cheever  
Honolulu, HI 96821

**From:** [anne earhart](#)  
**To:** [CPH Testimony](#)  
**Cc:** [Anne Earhart](#)  
**Subject:** Support for SB 1323 Realigning to Appliance Efficiency Standards  
**Date:** Wednesday, February 20, 2019 12:36:02 PM

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Aloha Chairman Baker, Vice Chair Chang and other members of the committee,

I'd like to offer my support for stronger efficiency standards for appliances. These standards will save Hawaii residents hundreds of millions of dollars as well as reducing electric demand as we try and reach our renewable goals. It will also save water and prevent huge amounts of carbon emissions as we try and prevent the worst effects of global warming which as you know will hit Hawaii particularly hard.

These standards are already in place in California and are easily achievable and again, will save consumers money.

Thank you very much for your consideration.

Anne Earhart  
2960 Kalihiwai,  
Kilauea, Kauai, 96754

**SB-1323**

Submitted on: 2/20/2019 9:17:29 PM

Testimony for CPH on 2/22/2019 9:35:00 AM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Sonja Kass	Individual	Support	No

Comments:

Aloha Members of the Committee,

I am testifying in support of Senate Bill 1323, "Relating to Appliance Efficiency Standards."

Please protect consumers against manufacturers who would otherwise sell the less efficient appliances that they can't sell in markets without such protections. For example in Europe they have heat pump based dryers that use less than half of the energy of the dryers here.

It is important to use more efficient appliances to consume less energy to burn less fossil fuels to combat climate change and sea level rise and help meet Hawaii's renewable energy goals.

Mahalo for your consideration

Sonja Kass, Kapaa, Kauai



**SB-1323**

Submitted on: 2/20/2019 9:32:59 PM

Testimony for CPH on 2/22/2019 9:35:00 AM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Andrew Richard Kass	Individual	Support	No

Comments:

SUBJECT: Support for SB 1323, "Relating to Appliance Efficiency Standards"

Aloha Members of the Committee,

I am testifying in support of Senate Bill 1323, "Relating to Appliance Efficiency Standards."

The standards are ready to implement because other states like California are already using or proposing them, so the products and technologies are readily available and they will provide substantial savings for consumers and businesses.

Reducing air pollutants and greenhouse gas emissions improve public health and works toward meeting our clean energy goals and climate mitigation targets.

Mahalo for your consideration

Andy Kass,  
302 Makani Rd.  
Kapaa  
Kauai

**SB-1323**

Submitted on: 2/20/2019 10:16:47 PM

Testimony for CPH on 2/22/2019 9:35:00 AM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Jill Yoshicedo	Individual	Support	No

Comments:

I support SB 1323 and its goal of implementing Appliance Efficiency Standards in Hawaii similar to California's. I would like to see Hawaii continue to be a leader in addressing carbon emissions, conserving natural resources, and doing our part in mitigating human impacts on climate change. The standards proposed in SB1323 will help us conserve water and reduce our carbon dioxide emissions, and help residents be on track to save money in these areas as well.

**SB-1323**

Submitted on: 2/20/2019 11:03:52 PM

Testimony for CPH on 2/22/2019 9:35:00 AM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Present at Hearing</b>
Rachel	Individual	Support	No

Comments:

Aloha Chair Baker, Vice Chair Chang, and members of the Committee,

I am testifying in support of Senate Bill 1323, "Relating to Appliance Efficiency Standards."

I support Hawaii adopting Appliance Efficiency Standards as it will save Hawaii residents \$537 Million and 34 billion gallons of water, and prevent the emissions of 700,000 metric tons of carbon dioxide over 15 years. Hawaii residents could really use a break on the many costly necessities that command so much of our financial resources. It would be great to have an option that is not more expensive and is better environmentally too.

Products and technologies meeting these standards are readily available today from multiple manufacturers. Most of them have no incremental cost, meaning they do not cost more than inefficient models, and consumers will start saving right away.

I am also grateful to see that there are provisions for testing for compliance and corrective action provisions in this bill, which are important components to seeing any policy implemented. Thank you for your consideration of Senate Bill 1323 and my testimony in SUPPORT of its passage.

Mahalo,

Rachel James

**From:** [Arwen Revere](#)  
**To:** [CPH Testimony](#)  
**Subject:** Senate Bill 1323.  
**Date:** Wednesday, February 20, 2019 2:22:51 PM

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Aloha Chair Baker, Vice Chair Chang, and members of the Committee,

I am testifying in support of Senate Bill 1323, "Relating to Appliance Efficiency Standards."

I support Hawaii adopting Appliance Efficiency Standards as it will save Hawaii residents \$537 Million and 34 billion gallons of water, and prevent the emissions of 700,000 metric tons of carbon dioxide over 15 years.

Products and technologies meeting these standards are readily available today from multiple manufacturers. Most of them have no incremental cost, meaning they do not cost more than inefficient models, and consumers will start saving right away.

These standards are already in place in California, and it would be easy to adopt them here.

Our earth is becoming more hurt by the day and we need to act fast!

In light of these facts, I support the passage of Senate Bill 1323.

Thank you for considering my testimony.

Arwen Revere, Kailua, Hawaii 96734

**From:** [Louis Concato](#)  
**To:** [CPH Testimony](#)  
**Subject:** Support for SB 1323, "Relating to Appliance Efficiency Standards"  
**Date:** Wednesday, February 20, 2019 5:15:49 PM

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Aloha Chair Baker, Vice Chair Chang, and members of the Committee,

I am please to write to you testifying in support of Senate Bill 1323, "Relating to Appliance Efficiency Standards."

I support Hawaii adopting Appliance Efficiency Standards as it will save Hawaii residents \$537 Million and 34 billion gallons of water, and prevent the emissions of 700,000 metric tons of carbon dioxide over 15 years. It is our responsibility to protect our 'aina and our planet.

Products and technologies meeting these standards are readily available today from multiple manufacturers. Most of them have no incremental cost, meaning they do not cost more than inefficient models, and consumers will start saving right away. Additionally, these standards are already in place in California, and it would be easy to adopt them here.

In light of these facts, **I support the passage of Senate Bill 1323**, and thank you for considering my testimony.

My very best,

Louis Concato  
Honolulu, HI  
96815

Louis Concato  
Executive Account Manager, Hawai'i  
(808) 468-2432 | 737 Bishop Street, Mauka Tower Suite 2530, Honolulu, HI 96813



**From:** [Carolynn Bell-Tuttle](#)  
**To:** [CPH Testimony](#)  
**Subject:** Support for SB 1323, "Relating to Appliance Efficiency Standards"  
**Date:** Thursday, February 21, 2019 5:44:03 AM

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Aloha Chair Baker, Vice Chair Chang, and members of the Committee,

I am testifying in support of Senate Bill 1323, "Relating to Appliance Efficiency Standards."

I support Hawaii adopting Appliance Efficiency Standards as it will save Hawaii residents \$537 Million and 34 billion gallons of water, and prevent the emissions of 700,000 metric tons of carbon dioxide over 15 years.

Products and technologies meeting these standards are readily available today from multiple manufacturers. Most of them have no incremental cost, meaning they do not cost more than inefficient models, and consumers will start saving right away.

These standards are already in place in California, and it would be easy to adopt them here.

In light of these facts, I support the passage of Senate Bill 1323.

Thank you for considering my testimony.

Carolynn Bell-Tuttle  
Honolulu, HI  
96821

**From:** [Mayadawn808](#)  
**To:** [CPH Testimony](#)  
**Subject:** Testimonial in SUPPORT of SB 1323 "Relating to Appliance Efficiency Standards"  
**Date:** Wednesday, February 20, 2019 11:02:34 PM

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To Chair Baker, Vice Chair Chang, and members of the Committee,

I am writing to testify in support of Senate Bill 1323, "Relating to Appliance Efficiency Standards."

We live on a small island, we must do everything we can to make us energy efficient.

I support Hawaii adopting the Appliance Efficiency Standards as this will save Hawaii residents \$537 million dollars. More importantly, we will be saving 34 billion gallons of water, and prevent 700,00 metric tons of toxic carbon dioxide into our beautiful islands over 15 years.

Today there are not enough products and technologies available to our consumers that are efficient. This bill will address what is already standard in California.

Let us lead the way once again in becoming an energy efficient state. We were the first ones to declare 100% renewable energy by 2045. Let us keep with that momentum and do what is best for our aina.

Thank you for considering my testimony in support of Senate Bill 1323.

Aloha,  
Maya Rogers  
Honolulu, HI 96814

**From:** [Lisa Mason](#)  
**To:** [CPH Testimony](#)  
**Subject:** Testimony in support of Senate Bill 1323, "Relating to Appliance Efficiency Standards."  
**Date:** Thursday, February 21, 2019 7:00:59 AM

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Aloha Chair Baker, Vice Chair Chang, and members of the Committee.

I am writing in support of SB 1323. Hawai'i is in need of new policies that will steer our society towards wiser choices when it comes to our consumption of electricity and energy. I have worked for the past 8 years in education in our local high schools carrying hope and confidence that my actions will create a better future for my students. Likewise, you have an opportunity to act in a way that will also help their future. By approving SB 1323 you are standing with a large part of our community and State that feels the need for smart lawmaking from our government. There is a shift happening in how people think about energy in Hawai'i. More and more people want a sustainable energy plan in place as soon as possible. We realize that the goal for a clean energy future in Hawai'i [by 2045] will be attained through the enactment and enforcement of practical laws like SB 1323.

Over 20 years, the State of Hawai'i could save up to \$1 billion by implementing energy efficiency standards on appliances. With current saving estimates, helping Hawaii's families save up to \$215 per household is the way to go. Hawai'i residents already pay some of the highest prices for electricity in the nation. This is unacceptable. The fact is that many people don't yet understand the benefits of energy efficient appliances, however, would most likely choose products that helped them save money and reduce their carbon footprint. Coupled with the financial benefits some families and businesses would experience are the reduced stresses on our natural resources and planet. Additionally, Hawai'i should not be the appliance industry's dumping ground for archaic technology.

I am fortunate enough to live in a house that has an energy efficient dishwasher, washing machine, and dryer (Energy Star). It was important to me that these products were available for purchase and that I had the option to choose models that fit my situation at an affordable price. The trickledown effect of greater consumer choice and competitive prices for energy efficient appliances will only increase if pressure is applied, by the State of Hawai'i, for the industry and market to shift in response to this demand. By creating greater "need" for energy smart technology our government, through bills like SB 1323, is fueling innovation and will help create opportunities for our next generation of solution makers.

Help to protect our marketplace, our wallets, and our 'aina. Thank you for considering my message. Please vote in support of HB 1323.

Mahalo,

Lisa L. K. Mason,

Kea'au, Hawai'i, 96749

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**Lisa Mason**

[Science Teacher](#)

[Christian Liberty Academy](#)

[16-675 Milo St. Kea'au, HI 96749](#)

[808-966-8445](#)

[lmason@clahawaii.org](mailto:lmason@clahawaii.org)



Aloha Chair Baker, Vice Chair Chang, and members of the Committee,

I am testifying in support of Senate Bill 1323, "Relating to Appliance Efficiency Standards."

I support Hawaii adopting Appliance Efficiency Standards as it will save Hawaii residents \$537 Million and 34 billion gallons of water, and prevent the emissions of 700,000 metric tons of carbon dioxide over 15 years.

Products and technologies meeting these standards are readily available today from multiple manufacturers. Most of them have no incremental cost, meaning they do not cost more than inefficient models, and consumers will start saving right away.

These standards are already in place in California, and it would be easy to adopt them here.

In light of these facts, I support the passage of Senate Bill 1323.

Thank you for considering my testimony.

Julie Smith, Ph.D.  
2943 Kalakaua Ave  
Honolulu HI 96815