

McClymont, Keelan

From: Jon Isaacs <jisaacs@portlandalliance.com>
Sent: Thursday, December 12, 2019 1:56 PM
To: Council Clerk – Testimony
Subject: PBA letter on council agenda item 1153
Attachments: 100% renewable support letter.pdf

Please accept the attached letter from Portland Business Alliance President & CEO Andrew Hoan on council agenda item 1153. Thank you.

Jon Isaacs | *Vice President, Government Affairs*
Portland Business Alliance, *Greater Portland's Chamber of Commerce*
Desk: 503-552-6746 | Mobile: 503-757-5721 | jisaacs@portlandalliance.com



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December 12th, 2019

Portland City Council
1221 SW Fourth Avenue, Room 130
Portland, Oregon 97204

RE: PBA Support for Utility Reports on 100% Renewable Energy Resolution

Honorable Mayor Wheeler and Members of the City Council:

The Portland Business Alliance (The Alliance) is the Greater Portland Chamber of Commerce and we represent the largest and most diverse business network in the region. The Alliance takes direction from our members to advocate on their behalf at all levels of government to support commerce, community health and the shared and sustainable prosperity for our region and our State.

On behalf of our 1900 members I am writing to express our commitment to work with the city, our utility partners, and all stakeholders to realize a clean energy future that provides greater economic opportunity for all Portlanders. We pledge that the Alliance, and our members, will continue to be a key partner in helping the city reach the goals of the climate action plan and 100% clean and renewable solutions.

We are excited about the update you will receive today regarding plans to bring on more clean and renewable energy. Closing coal plants and replacing power with renewable energy is a win-win for residential and business customers that will help Portland and the State of Oregon move toward our goals in the most cost-effective way.

Here in Portland, we are extremely fortunate to have nationally recognized, voluntary renewable energy options offered by our energy utilities. Portland businesses participate in these programs at far above the national average. This directly supports adding more renewable energy to the grid, while also allowing business to reflect the clean energy values of their customers, employees, and our city.

For example, through Pacific Power's Blue Sky Select Program and PGE's Green Source, Green Future Solar, and Clean Wind programs, over 1800 Portland businesses are participating in voluntary renewable energy programs. These include critical employers, and Alliance members, such as the Portland Trailblazers, Portland Public Schools, Oregon Convention Center, and OMSI. Both Pacific Power's Blue Sky Select and PGE's Green Future programs will allow many of PGE's largest customers – including the City of Portland – to link their load to a new renewable energy facility located here in Oregon.

We are extremely proud of the progress our utilities and all of our members have made to date and we are committed to continuing this collaboration going forward. There is still so much more work to do. We strongly encourage further expansion of the partnership between the city, our utilities, the business community, community advocates, and all stakeholders to continue to find ways to advance climate goals while maintaining the affordability and livability of our region.

Sincerely,

Andrew Hoan, CEO and President

100% Renewable Update

My name is Ella Shriner, I'm 17 and I'm representing the Portland Youth Climate Council. Two minutes is not very long so I have given you a copy of what I would have liked to have shared with you here today had we been allotted more time.

Over the last two years, the global recognition of the urgency for climate action has grown dramatically. We've seen the release of the latest IPCC and other reports telling us that we have less than a decade to act and we've seen Greta Thunberg ignite a movement of youth demanding change – all since this resolution was adopted. But what we haven't seen in Portland during that time is a bold enough response to the growing urgency this crisis demands.

PYCC's message today about the City's climate action is very simple: We need to be doing more, we need to be doing it faster, and we need to be doing it with more inclusivity. We hear continued pledges of community engagement, yet each new announcement of a policy initiative seems to have been created behind closed doors.

Youth, and all Portlanders, don't need you to say "you hear us". Those words "I hear you, I'm with you" mean nothing without courageous action. Without inclusion in the process to ensure that these actions truly are what's best for the community.

For instance, would low income communities in East Portland really prioritize EV charging stations over reliable, safe, frequent, affordable public transportation? Have you asked them?

EV charging stations are a good thing. Adequate bike parking is a good thing. Salvaging materials from deconstructed buildings is a good thing. Maintaining mitigation requirements for the largest trees on residential properties is a good thing.

Those actions are valuable, and are important for the health and safety of our city. But don't call them bold climate actions. And bold, courageous action is what this crisis requires of us.

Let's stop putting gas lines in new buildings because we know that fracked gas is not a bridge fuel, let's make our public transit the best choice for everyone, let's make it clear to the utilities that they need to change more and greenwash less, and let's make fossil fuel companies put up risk bonds for the damage they cause to our communities.

We understand the fear of change, but we are frightened by the climate changes that we're already seeing. Had we tackled this problem decades ago, small, incremental steps could have been a reasonable approach. But that time has passed. Today's reality calls for strong vision and bolder action.

Portland Youth Climate Council Testimony on the 100% Renewable Energy biennial update

My name is Ella Shriner, I am a senior at Grant High School, a lead organizer for the September Climate Strike and a founding member of the Portland Youth Climate Council.

I appreciate the opportunity to provide a youth perspective. When the 100% Renewable Energy resolution was first being discussed at the City and County, we were concerned about the lack of engagement with youth and the failure to recognize that youth, like other frontline communities, will be disproportionately impacted by climate change. As a result, we came to City Council proposing an amendment to the 100% Renewable Energy Resolution, which authorized the creation of a youth council to advise the city on climate policy. ... That amendment, passed unanimously, led to the formation of the Portland Youth Climate Council... and to my being here today to provide our thoughts.

PYCC's message today is very simple. We need **bold** action and we need it significantly faster than called for in the 100% Renewable Energy resolution. When the resolution was originally drafted, it set a goal for 100% Renewable Energy for electricity generation **by the year 2030**. By the time the resolution came for a final vote, corporate utilities had successfully pushed that date back by five years to 2035. Last year's IPCC report, and reports issued since then, have made it very clear that we don't have that extra time. So we are here to emphasize that the City and County must be working on a shorter timeline.

We have a few specific comments that we would like to address to the utilities who are presenting this afternoon.

Electricity - PGE & Pacific Power

Some of the action that PGE is currently taking to move toward renewables come from pressure that we, as customers, put on them. In 2016, their Integrated Resource Plan called for new fracked gas units at Carty/Boardman. Ratepayers spoke out and urged the Oregon PUC to say no and PGE backed off this plan. It is time for us to say no to Pacific Power's plans as well.

Pacificorp, Pacific Power's parent company, is the largest emitter of greenhouse gas pollution in the western United States. That's not something to be proud of. Currently 60% of Pacific Power's electricity-generation comes from coal. Even though an economic analysis showed that 13 of their 22 coal units are currently no longer economically viable, Pacific Power is being slow to make plans to close most of these units. In fact, in their current IRP, they plan to keep a third of their coal fleet operating well-past the mid-2030's. This means that Oregon customers will be paying millions of dollars more to get their electricity from dirty, climate-killing sources than they would from cleaner options. This is wrong. Pacific Power should be putting an aggressive plan

in place to shift their portfolio much more rapidly to renewables, while simultaneously planning for a just transition for workers currently involved in coal-generated power.

NW Natural

Northwest Natural likes to point to the possibilities presented by what they refer to as renewable natural gas (RNG).

We all know that methane is a more potent greenhouse gas than carbon dioxide, so YES, we do want to capture methane from landfills and waste water treatment plants. However, that methane should be used as an energy source on site, and not added into our current gas pipeline system to be mixed with fracked gas.

Sprinkling in a small percentage of RNG does nothing to change the reality that the use of so-called "natural gas" is killing our planet. Yes, it burns cleaner than coal or oil, but the tremendous unregulated leaks at production facilities and in pipelines along the routes to markets, make it as bad or worse for the global climate, as any other fossil fuel.

As an industry, NW Natural needs to recognize that **they don't actually have a future in fossil fuels** and that they need to be diversifying their portfolio and shifting their business model accordingly. It is understandable that they might not want to do this and I recognize that Northwest Natural is influential in our local economy and politics, but the health of our planet, and our futures depend on transitioning completely off of fossil fuels.

And, to give NW Natural a necessary push along the path to a new business model, the City needs to make strong demands that recognize that there is no role for NW Natural in our City's future. We need to follow the lead of cities like Berkeley and San Jose and ban installation of gas in new construction and then incentivize homeowners and businesses to convert from gas to electric.

In short, Pacific Power, PGE and NW Natural, all need to ramp up their action – and the City needs to apply pressure to see that this happens.

TriMet

There is no presentation scheduled from TriMet in the the City's 100% Renewable update but the report does recognize that our overall emissions from transportation have been rising, and we need to get people out of their cars. The efforts to decrease congestion by building more freeway lanes is wrong on so many fronts and research has shown that this actually ends up causing increases in both pollution and traffic congestion.

It would be far better to make our city one where public transportation is desirable for **ALL**, rather than an inefficient form of transportation for those who lack the means to travel by car. We need to be dedicating lanes for rapid bus transport, increasing our service to reach all neighborhoods, and making it the smart choice for **everyone to**

travel by bus and light rail. Thanks to the youth who have been fighting for YouthPass for decades, the city is slowly coming around to recognizing the importance of YouthPass. That would be a success that has been far too long in the making. But, at this point, we need to move more boldly, and we should be seriously considering funding free public transportation for all residents.

And while making public transit the best means of travel, TriMet needs to be rapidly electrifying their bus fleet, beginning with an immediate commitment to stop purchasing new diesel buses. TriMet keeps their buses for an average of 16 years, which means that the 64 diesel buses put into service this year will still be in on the road in 2035. TriMet's steps toward electrification are far too slow. According to TriMet's website, they say (and I quote) "we'd love to transition our fleet faster, but that there are factors that make 2040 a more realistic and responsible goal." And as youth, we say... "we'd love to have a future, so one of the factors you consider should be the fact that the science is telling us that we no longer have time for incremental steps."

The transition to 100% Renewable Energy will not be without obstacles, and we understand why politicians and corporations are reluctant to take bold action. But we're afraid of what will happen if we don't quickly move to clean energy and dramatically lower our emissions. **We understand the economic arguments for incrementalism and, had we tackled this problem decades ago, a gradual weaning from fossil fuels could have been a reasonable approach. But that time has passed. Today's reality calls for strong vision and bolder action.**

Thank you.

PGE is helping achieve Portland's clean energy future

Submitted by
Dave Robertson
12-12-19

CLEAN ENERGY

50% clean energy used to serve customers by the end of 2022. We're committed to reduce our emissions by more than 80% and to enable other sectors of the economy to decarbonize with us, as informed by our deep decarbonization study.

1800 MW of clean resources already online, and another 500+ MW by 2022. These resources include our wind farms at Biglow and Tucannon, our hydropower partnership with the Confederated Tribes of the Warm Springs at Pelton Round Butte and new projects like the Wheatridge wind-solar-battery storage facility.

Choices for customers to go greener faster

Voluntary Renewables Enrollment

225,000 customers participate in our voluntary renewable program (95,000 Portland customers), which is the largest program of its kind in the country.

Green Future Impact

Subscribers will link their load to a new renewable facility in Oregon (17 customers have signed on, including the City of Portland).

Rooftop solar

More than 10,000 customers participate in our net-metering program (approximately 2,500 Portland customers).

\$16 million in grants to support local renewable energy projects since 2002 through the PGE Renewable Development Fund, including \$6.4 million to Portland based entities for solar panels at 12 schools and 9 affordable housing units. The RDF is funded by PGE Green Source customers.

CLIMATE CHANGE PREPARATION

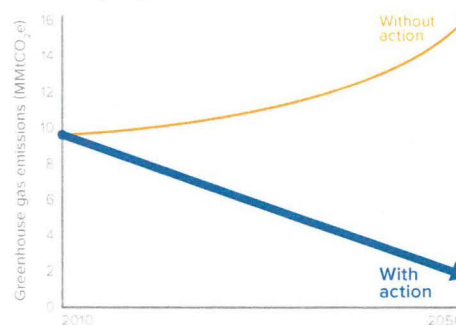
Hardening the grid against disruption

by strengthening our transmission and distribution system, implementing 40 MW of new battery storage, updating our cyber and physical security systems, and using automated sensing technology to continuously monitor our transmission lines.

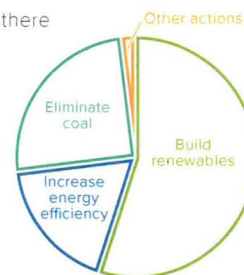
Helping ensure a coordinated, rapid response to a crisis by collaborating with local, state and federal entities.

Our goal: reduce emissions by more than 80%

Where we're going



How we'll get there



CLEAN TRANSPORTATION OPTIONS AND INCREASED MOBILITY

Supporting TriMet to electrify its bus fleet, including electric bus charging infrastructure, TriMet's first all-electric bus route, the Powell Garage bus depot conversion to all electric, and electric fuel planning efforts for the next 20 years.

Providing free universal TriMet passes to permanent PGE employees who live in Oregon and work at our Portland-metro area locations — including PGE's 700 employees who live in Portland.

Seven publicly available PGE Electric Avenues in the Portland-Salem metro areas by the end of 2020, including two in Portland (downtown and Eastport Plaza), each of which can charge six vehicles at a time.

120+ PGE workplace and fleet charging ports (50+ at our Portland facilities), and free charging for employees.

Committed to electrifying our 1,000+ vehicle fleet, which will improve local air quality in the neighborhoods where we work and support the state in reaching its zero-emission vehicle goals.

Supporting schools, nonprofits and public agencies advance EV adoption in ways that benefit the community and address inequities through the PGE Drive Change Fund (funded by Clean Fuels credits). Grants provide funding for electric vehicles, buses, charging infrastructure and technical assistance.

Helped establish zero-emission vehicle (ZEV) adoption goals for Oregon through Senate Bill 1044, including a goal to have 90% of all new vehicles sold and 50% of all registered vehicles ZEVs by 2050.

EFFICIENT, RESILIENT HOMES AND BUILDINGS

\$130+ million to support low-income weatherization and affordable housing, remitted by PGE since 2002 to Oregon Housing and Community Services.

\$700+ million to the Energy Trust of Oregon, remitted by PGE since 2008.

More than 200,000 kWh of energy diverted during peak times in 2018. Customers participated in demand response programs like Energy Partner by shifting energy use from peak to off-peak times. Portland customers shifted 46,000 kWh.

Three Smart Grid Test Beds, including one in North Portland, which help give customers greater control of their energy use and carbon footprint through grid-connected smart thermostats, water heaters and EV chargers.

COMMUNITY, JOBS AND PARTNERSHIPS

PGE is committed to a clean energy future and supporting the communities where we live and work.

3000+ PGE employees, 700 of whom live in Portland. They are engineers, environmental scientists, IBEW lineworkers, grid operators, experts in electric vehicles and more.

45,000 volunteer hours by PGE employees and retirees in 2018.

\$4.2 million donated by PGE employees, retirees and the PGE Foundation to support local schools and nonprofits in 2018.

58 scholarships and 61 summer internships for Oregon students in 2018.

75,000+ students received PGE's electric safety and energy education in the classroom or safety fairs in 2018.

RESOLUTION No. **SUBSTITUTE**
 37289 *As Amended*

Establish a goal to meet 100 percent of community-wide energy needs with renewable energy by 2050 (Resolution)

WHEREAS, the scientific consensus is clear that human activities are primarily responsible for accelerating global climate change; and

WHEREAS, changes in Oregon's climate are already being felt, with Oregon's mean temperature warming by 2.2°F during 1895-2015, and 2015 was the warmest year on record and 2016 was the wettest winter on record; and

WHEREAS, the Oregon Climate Change Research Institute has found that climate change poses a significant threat to Oregon's forestry, fisheries, water supplies and coastal resources, and impacts that are likely to include winter flooding, summer droughts, loss of shoreline, forest fires, diminished fish and wildlife habitat, retreating glaciers, decreased snowpack, increased disease vectors and invasive species, urban heat islands; and

WHEREAS, the City of Portland's climate future is expected to be characterized by hotter, drier summers with more high-heat days, and warmer winters with more intense rain events. Oregon's mean annual temperature is projected to increase by up to 10.7°F by the 2080s if we don't act; and

WHEREAS, the Oregon Global Warming Commission concluded in its 2017 report to the Legislature that Oregon is not on track to achieve its statutory greenhouse gas reduction goals, specifically to reduce emissions by 10 percent below 1990 levels by 2020 and by at least 75 percent below 1990 levels by 2050; and

WHEREAS, the entire community will be impacted by climate change, but communities that already face existing socioeconomic and health inequities will be most severely impacted by these risks, which include youth, elders, people of color, and low-income communities, and such communities will therefore require an investment in resilience that is proportionate and accountable to these more severe risks; and

WHEREAS, since time immemorial, Chinook Peoples have called home what we now recognize as the Portland Metropolitan Area. All non-Chinook residents of this land are visitors. We must respect this as Chinook land, and in doing so act as caretakers of its precious resources and act in partnership with tribes who have ceded land and resources across Oregon. Resilience has always characterized the way of life on this land, through and interdependent, intertribal economy that builds balance and fosters thriving land and people; and

WHEREAS, Oregon's nine federally recognized tribal governments have a distinctive legal and political status separate from other sovereigns, including other tribal governments. Additionally, Portland is home to over 45,000 Native Americans, representing close to 400 different tribes. The City of Portland, therefore, has a unique responsibility to consult with, at a minimum, Oregon's nine federally recognized tribal governments and urban Native American communities; and

WHEREAS, the newly confirmed EPA Administrator Scott Pruitt and President Trump are making decisions that are setting climate policy at the national and international level back decades by pulling out of the Paris Climate Agreement, defunding environmental programs, attempting to reinvigorate the coal industry, greenlighting major pipeline projects (such as Keystone XL and Dakota Access), attacking the Clean Power Plan, and weakening EPA's commitment to environmental justice; and

WHEREAS, the City of Portland has committed to policies opposing new fossil fuel infrastructure because of the inherent dangers to health and safety in extraction, transport, storage, and combustion of fossil fuels which are exacerbated by the specific seismic profile of this region; and

WHEREAS, the City's first preference for meeting energy needs remains energy efficiency, as it has been since adoption of the first City Energy Policy in 1979, and the City remains committed to acquiring at a minimum all cost-effective energy efficiency available with a particular focus on achieving energy efficiency in low-income housing; and

WHEREAS, in 1993 Portland was the first city in the United States to adopt a climate action strategy (Resolution 35207), and as of 2014 local per capita carbon emissions had fallen 40 percent and overall emissions were 21 percent below 1990 levels; and

WHEREAS, the economic opportunities presented by a clean energy transition far outweigh the opportunities to expanding the fossil fuel economy; and

WHEREAS, one sector alone, solar energy, accounts for over 300,000 jobs in the United States, and over 4,000 jobs in Oregon; and

WHEREAS, Portland's history of progressive climate action has helped to create a large and globally competitive low carbon industry and made Portland a net exporter of environmental goods and services; and

WHEREAS, the *2015 Climate Action Plan*, adopted by Resolution 37135, found that communities of color and low-income populations have been historically under-served by programs and investments and under-represented in decision making on climate policy; and

WHEREAS, the *2015 Climate Action Plan* commits the City to continue to advance policy and programs to reduce local fossil fuel use both in the City's own operations and through community-wide initiatives; and

WHEREAS, the *2015 Climate Action Plan* supports the use of tools and strategies to engage impacted communities, minimize harms and hazards and ensure economic, social, and environmental benefits are shared by low-income populations and communities of color; and

WHEREAS, community-based development of environmental infrastructure, such as the June Key Delta Center and Let Us Build Cully Park! Initiative, is an emerging and underutilized best practice for ensuring that economic, social, and environmental benefits are led and shared by low-income populations and communities of color and warrants further increased private capacity building investments in community facing organizations; and

WHEREAS, it is imperative that energy consumers and the utilities serving them take early action to reduce carbon emissions given the accelerating rate climate change the planet is experiencing, and shifting to 100% of electricity from renewable sources by 2035 is within reach; and

WHEREAS, achieving these goals will require action at all levels: individual and community, local and state government, businesses and utilities; and

WHEREAS, "renewable energy" includes energy derived from hydrogen, wind power sited in ecologically responsible ways, solar, existing and low-impact hydroelectric, geothermal, biogas (including biogas produced from biomass), and ocean/wave technology sources. These sources of energy can have significant public health and other co-benefits that can help address pressing ecological and environmental justice challenges in sensitive ecosystems and communities in Oregon and around the country; and

WHEREAS, "renewable energy" specifically excludes energy derived from fossil fuels, nuclear, biomass feedstocks sourced from state and federal lands, hydrogen produced from fossil fuels, and incineration of municipal and medical waste; and

WHEREAS, any forest biomass energy project requires special consideration to ensure that ecosystem health is not harmed, that the project does not result in increased life-cycle carbon emissions, and that air quality and fish habitat is not degraded; and

WHEREAS, renewable energy must also be sustainable, both in terms of the conservation of fish and wildlife habitat and in the promotion of human health and racial, environmental, and economic justice, and therefore reliance on existing hydroelectric power requires special consideration to reduce negative ecological impacts to biological systems dependent on the affected watersheds; and

WHEREAS, low-income communities and communities of color have historically been left out of environmental and climate policy discussions despite being disproportionately negatively impacted by climate change and often the policy solutions to address climate change; and

WHEREAS, access to the financial and environmental benefits of renewable energy must be shared equitably across all economic classes, and this can be achieved through such mechanisms as community-based development of renewable energy infrastructure, equitable pricing structures, community solar programs with low-income communities, and non-profit organization leadership; and

WHEREAS, the renewable energy economy presents opportunities for workers in manufacturing, construction, and service sector and it is essential that workers play a role in helping drive innovation towards cleaner energy economies while creating and maintaining family-sustaining jobs; and

WHEREAS, energy efficiency, rooftop solar, low-income community solar, and demand control technologies offer the opportunity to redistribute resources, address poverty, stimulate new economic activity in the City, and lift up those most impacted by high energy costs; and

WHEREAS the benefits of affordability programs can ease the energy burden on low-income households, fostering equality as a percent of household incomes and preventing disconnections, and thus mitigate the impacts of price spikes and the cost of implementing renewable programs; and

WHEREAS, extending transit service to be less costly, readily accessible to all, use clean fuels, and especially available to low-income neighborhoods, will bring not only significant greenhouse gas reductions but also improve access to employment opportunities; and

WHEREAS, the construction of new fossil fuel infrastructure or expanded reliance on fossil fuels in utility resource mixes adversely impacts a renewable energy powered future and creates financial risk to customers through potential stranded assets; and

WHEREAS, energy conservation is critical to reducing fossil fuel demand and increasing green infrastructure such as urban tree canopy, green streets, green roofs and other natural resource focused strategies are effective strategies to reduce energy consumption, urban heat island impacts and address disparities in the impacts of climate change on vulnerable communities; and

WHEREAS, the transportation sector accounts for 40 percent of greenhouse gas emissions in Multnomah County, and significant reductions in emissions from transportation are essential to achieving the City and County's climate-protection goals; and

WHEREAS, electrifying car, truck, and bus fleets will bring environmental and economic benefits to Portland residents, including lower cost transportation options for low income households; and

WHEREAS, local educational institutions (high schools, community colleges, universities), community-based job training programs, apprenticeship programs, and on-the-job training providers are well situated to train the professionals who will design, implement, install, retrofit, and maintain the renewable energy infrastructure of the future; and

WHEREAS, distributed solar energy paired with energy storage is an important strategy to build disaster resilience into our communities, and will assist with disaster recovery. Ensuring equitable distribution of these resources is imperative to adequately prepare for disasters, particularly those exacerbated by climate change; and

WHEREAS, youth and future generations will be significantly more impacted by climate disruption than those currently in positions of power. We must recognize that youth will inherit the effects of the bad decisions of the past, have the most to lose from a lack of action in the present, and will spend their lives leading the transition to a truly green and sustainable economy.

NOW, THEREFORE, BE IT RESOLVED, the City establishes a goal to meet 100 percent of community-wide energy needs with renewable energy by 2050; and

BE IT FURTHER RESOLVED, the City establishes a goal to meet 100 percent of the community's electric energy needs through renewable energy resources by 2035; and

AND BE IT FURTHER RESOLVED, the City opposes the rollback of climate policy at the federal level and affirms its ongoing commitment to the goals of the Paris Climate Agreement and the City's responsibility to meet its proportionate greenhouse gas reductions for the United States under the Paris Climate Agreement; and

BE IT FURTHER RESOLVED, the City will continue to supply 100 percent of electricity for City operations from renewable energy through a combination of on-site renewable electricity generation, utility-supplied renewables, dedicated off-site renewable resources, and renewable energy credit purchases (REC); and

BE IT FURTHER RESOLVED, the City will prioritize renewable resources over the purchase of RECs with the intention of reducing reliance on RECs during the transition to 100 percent renewable resources over time; and

BE IT FURTHER RESOLVED, the City will prioritize community-based development of renewable energy infrastructure and will make investments in community facing organizations to build capacity to lead such development to meet 2% of community-wide energy needs (including transportation, heating, and electricity) via such infrastructure by 2035, and 10% by 2050; and

BE IT FURTHER RESOLVED, the City will partner with Worksystems, Inc., labor unions, and others to develop training and re-training programs to serve workers who would be displaced by this transition or workers who would otherwise be working in the energy field so that they are well-equipped for the "renewable energy" economy; and

BE IT FURTHER RESOLVED, the City will prioritize an aspirational goal of 50% utilization rate of minority-owned, women-owned, and emerging small businesses and pursue additional policies and partnerships for workforce equity to include low-income residents in the economic, social, and environmental benefits to be derived from the clean energy transition; and

BE IT FURTHER RESOLVED, a renewable energy transition is an opportunity to redress historical inequities in our community and must be just. This means, in part, prioritizing the resources to train and hire people from within communities of color and women that have traditionally been under-represented in renewable energy, energy efficiency, and the workforce needed to implement a successful renewable energy transition; and

BE IT FURTHER RESOLVED, City projects and procurements under this proposal will use proven policies to ensure the jobs created are high-quality, family-wage jobs that meet our high standards of workforce inclusion for women and communities of color; and

BE IT FURTHER RESOLVED, the City will partner with energy utilities to accelerate the transition to renewable energy and minimize dependence on fossil fuels, expressing the City's preferences for resources consistent with its renewable energy goals and opposition to any new fossil fuel power project; and

BE IT FURTHER RESOLVED, the City urges utility companies to maximize energy efficiency, demand control technologies, energy storage, and renewable energy and avoid any new commitments to ownership of or long-term contracts for electricity derived from fossil-fuel power plants; and

BE IT FURTHER RESOLVED, the City will partner with energy utilities and community-based organizations to adopt policies that reduce the cost-burden for low-income customers, and make incentives available to foster equality in energy burdens as a percent of household incomes; and

BE IT FURTHER RESOLVED, the City supports accelerating the transition to electric vehicles and the use of electric vehicles to help manage the electrical grid, integrate generation from renewable resources, and improve electric system efficiency and flexibility; and

BE IT FURTHER RESOLVED, that the City commits to expanding green infrastructure strategies to reduce energy demand, and limit the impacts of climate change in vulnerable communities; and

BE IT FURTHER RESOLVED, the City urges the State of Oregon to adopt 100% renewable energy goals and renew and expand renewable energy incentives; and

BE IT FURTHER RESOLVED, the City urges the State of Oregon to adopt codes and standards to increase the efficiency and flexibility of buildings and appliances; and

BE IT FURTHER RESOLVED, the City will participate in the Public Utility Commission community solar program rulemaking, integrated resource plan processes, and other processes related to renewable energy to advocate for rules that support City goals; and

BE IT FURTHER RESOLVED, the City seeks to collaborate with Multnomah County, Metro Regional Government, and Tri-Met to reduce fares for low-income residents while significantly extending service miles and public transit access across City neighborhoods, and complete a rapid transition to an electric fleet; and

BE IT FURTHER RESOLVED, the City will work with and advocate for TriMet to transition to electric bus and other renewable energy-powered public transit options as soon as practicable; and

BE IT FURTHER RESOLVED, the City of Portland will form a Climate Action sub-committee of the Planning and Sustainability Commission that will include but is not limited to Oregon tribes, communities of color, low-income residents, youth representatives, environmental advocates, City bureau representatives, and utility providers to help the PSC and city achieve these goals with special attention on addressing environmental, social, and economic inequities; and

BE IT FURTHER RESOLVED, the City will establish a Youth Climate Council to provide regular support and advice to the city in meeting our climate goals through strong, science-based action; and

BE IT FURTHER RESOLVED, City impact statements accompanying a resolution or ordinance shall discuss how they contribute to the 100 percent renewable energy goal; and

BE IT FURTHER RESOLVED, the Bureau of Planning and Sustainability will incorporate strategies to achieve the 100 percent renewable energy goals into the next update to the Climate Action Plan; and

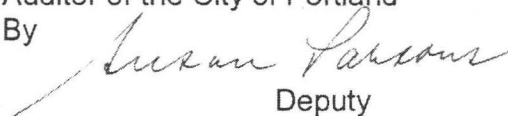
BE IT FURTHER RESOLVED, the Bureau of Planning and Sustainability will report to City Council every two years on progress toward the 100 percent renewable energy goals; and

BE IT FURTHER RESOLVED, this resolution is binding City policy.

Adopted by the Council: JUN 01 2017

Mayor Ted Wheeler
 Commissioner Chloe Eudaly
 Commissioner Dan Saltzman
 Commissioner Nick Fish
 Prepared by: Jamey Duhamel, Nathan Howard, and
 Amira Streeter
 Date Prepared: June 1, 2017

Mary Hull Caballero
 Auditor of the City of Portland
 By


 Deputy

S-609

Agenda No.
RESOLUTION NO.
 Title

SUBSTITUTE

37289 As Amended

Establish goal to transition Portland to 100% renewable energy by 2050 (Substitute Resolution)

INTRODUCED BY Commissioner/Auditor: Mayor Wheeler	CLERK USE: DATE FILED <u>MAY 30 2017</u>
COMMISSIONER APPROVAL Mayor—Finance & Administration – Wheeler <i>W</i> Position 1/Utilities - Fritz <i>F</i> Position 2/Works - Fish <i>F</i> Position 3/Affairs - Saltzman <i>S</i> Position 4/Safety - Eudaly <i>E</i>	Mary Hull Caballero Auditor of the City of Portland By: <i>[Signature]</i> Deputy
BUREAU APPROVAL Bureau: Bureau Head:	ACTION TAKEN:
Prepared by: Nathan Howard Date Prepared: April 17, 2017	
Impact Statement Completed <input checked="" type="checkbox"/> Amends Budget <input type="checkbox"/>	
Portland Policy Document If "Yes" requires City Policy paragraph stated in document. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
City Auditor Office Approval: required for Code Ordinances	
City Attorney Approval: required for contract, code, easement, franchise, charter, Comp Plan	
Council Meeting Date June 1, 2017	

AGENDA	FOUR-FIFTHS AGENDA	COMMISSIONERS VOTED AS FOLLOWS:	
TIME CERTAIN <input checked="" type="checkbox"/> Start time: <u>3:00</u> Total amount of time needed: _____ (for presentation, testimony and discussion)		YEAS	NAYS
CONSENT <input type="checkbox"/>	1. Fritz	_____	
REGULAR <input type="checkbox"/> Total amount of time needed: _____ (for presentation, testimony and discussion)	2. Fish	✓	
	3. Saltzman	✓	
	4. Eudaly	✓	
	Wheeler	✓	

Moore-Love, Karla

From: Kenneth Dragoon <k.dragoon@renewableh2.org>
Sent: Wednesday, December 11, 2019 10:05 PM
To: Council Clerk – Testimony
Subject: 100% Renewable Energy Biennial Report Testimony
Attachments: RHA Letter to City Council 12Dec'19.pdf; PastedGraphic-1.tiff

Please accept the attached testimony regarding item 1153 on the City Council's December 12, 2019 agenda regarding accepting the 2017-19 Biennial Report to Portland City Council on 100 Percent Renewable Energy Resolution No. 37289.

Sincerely,

Ken Dragoon

Ken Dragoon
Executive Director, RHA
503-545-8172
RenewableH2.org

Founding Members

3Degrees
 Aciem Consulting
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 Tacoma Public Utilities
 The Warren Group
 Toyota Motor North America
 TriMet
 Vashon Climate Action Group
 Warner Hydrogen

To: Mayor Ted Wheeler
 Commissioner Chloe Eudaly
 Commissioner Nick Fish
 Commissioner Amanda Fritz
 Commissioner Jo Ann Hardesty

RE: 100 Percent Renewable Energy Resolution Biennial Report

As a current and a native Portlander, it is with great pleasure that I provide these comments on the Bureau of Planning and Sustainability's first Biennial Report on the City's 100 Percent Renewable Energy Resolution. I am the Executive Director of The Renewable Hydrogen Alliance (RHA), a dynamic organization that promotes using renewable electricity to create climate-neutral fuels.

In just 18 months RHA has grown to nearly 60 members representing a diverse group of industries, including consumer-owned and investor-owned electric utilities as well as gas utilities; manufacturers of electrolyzers, fuel cells, and fuel cell vehicles; clean energy advocates, consultants, developers, law firms, hydrogen vehicle advocates, and others. Although based in Portland we have members across the US and in Canada as well as several in Europe. Our rapid development is an indication of the growing importance of clean fuels, derived from renewable electricity, in achieving climate goals.

Importance of Fuels from Renewable Electricity

As you may know, passing an electric current through water splits H₂O into hydrogen and oxygen. The hydrogen can be used directly in fuel cell vehicles, injected into natural gas pipelines to reduce the carbon content of the gas, or used as a feedstock for other fuels including renewable diesel. European deployments of electrolyzers for splitting water to produce hydrogen have created rapidly falling costs for the technology. The interest in Europe is spurred by super-abundances of renewable power in the markets when the wind is blowing and the sun is shining. Instead of turning this energy away for lack of demand, Europe has begun using the surpluses to create carbon-neutral fuels.

Although the Northwest is at an earlier stage in developing wind and solar resources, we already see the turning away of renewable electricity for lack of demand. Hundreds of thousands of megawatt-hours of renewable electricity are essentially thrown away in the Northwest each year, even more in California. The region lacks sufficient demand for renewable power when it is in abundance. Using available renewable electricity for decarbonizing

RHA Mission:

Promote using renewable electricity to produce climate-neutral hydrogen and other energy-intensive products that reduce dependence on fossil fuels.

Board of Directors

*Shanna Brownstein,
Portland General Electric*

*Jason Busch, Pacific Ocean
Energy Trust*

*Ken Dragoon, Flink Energy
Consulting*

*Nicole Hughes, Renewable
Northwest*

*Dr. John Lynch,
Washington State
University*

Don Ruff, Ruff Consulting

transportation and industrial sectors is critical to realizing climate goals.

There are those who claim that 100% renewable electricity is either not feasible or too costly to achieve. Their reason is that low wind output in winter, when solar output is also low, can extend for days or weeks and the cost of bridging those times with batteries— or other technologies most people think of as storage— will far exceed the renewable investment. Creating climate-neutral fuels to supply conventional power plants leveraging conventional storage infrastructure solves this problem at a small fraction of the renewable investment.

RHA urges the City to become more involved in encouraging creation of fuels from renewable electricity, including hydrogen fueling infrastructure so long as hydrogen is sourced from renewable energy. The City can actively engage in encouraging lower-carbon sources of fuel in gas pipelines. The City can consider hydrogen vehicles for fleets and transit at least on a par with battery electric vehicles. We urge the Bureau of Planning and Sustainability (BPS) to include hydrogen fuel cell vehicles in its definition of electric vehicles so long as the hydrogen is sourced from renewable electricity.

Summary

The City's commitment to 100% renewable energy is commendable and achievable. RHA urges BPS and the City to support renewable fuels, especially those based on renewable electricity that are critical to achieving 100% renewable electric grids, and to support using renewable electricity to decarbonize energy sectors beyond the reach of the electric grid.

As a personal note, I would add that the City's efforts to create lower-carbon transportation options are evident and personally appreciated. Bike lanes and paths, public and alternative transportation options have made it possible for many of us to own fewer conventional vehicles, if any at all.

Sincerely,



Ken Dragoon
Executive Director
Renewable Hydrogen Alliance

Moore-Love, Karla

From: Kyler Liu <kliuhist88@gmail.com>
Sent: Wednesday, December 11, 2019 9:58 PM
To: Council Clerk – Testimony
Subject: Climate Change

Dear Portland City Council,

Tomorrow your council will hear testimony from utility companies about the city's progress on reaching 100% renewable electricity generation by 2035. Given that we have less than 12 years to prevent the worse of climate change the city should be doing all it can to speed up the transition to renewables and prioritize that place the most vulnerable from climate change at the forefront. Instead of reaching 100% renewable electricity generation by 2035 the city should adopt a policy of Net Zero emissions by 2025. The People of Portland are ready for this transition. We need the city to stand with us.

Thank you for your service.

Kyler

--

Kyler Liu
kliuhist88@gmail.com

Moore-Love, Karla

From: Sen Dembrow <Sen.MichaelDembrow@oregonlegislature.gov>
Sent: Wednesday, December 11, 2019 4:26 PM
To: Council Clerk – Testimony
Subject: Testimony for Resolution No. 37289
Attachments: Dembrow Testimony 37289 PDX.docx

Please accept the attached letter providing testimony related to Resolution No. 37289, the 2017-19 Biennial Report to Portland City Council on 100 Percent Renewable Energy.



Senator Michael E. Dembrow
Senate District 23

December 10, 2019

RE: Resolution #37289

Dear Portland City Commissioners:

I see that this week you are going to be receiving the 2017-19 Report on status of the 100% Renewable Energy Resolution. Again, I am proud to see my city stepping up and committing to this kind of aggressive climate action. In the absence of aggressive federal action on climate (in fact the refusal to do anything positive), it is essential that state and local governments take the kind of action that our constituents know is needed.

As Chair of the Oregon Senate's Committee on the Environment and Natural Resources, I'm pleased to see the comprehensive nature of the proposal, including reference to the transportation sector, the leading source of greenhouse gas emissions in this state, including reference to renewable natural gas as a replacement for fossil-sourced gasoline and diesel. As you know, shifting to RNG and electricity as our transportation fuel source will also greatly improve the air quality and public health outcomes in our neighborhoods.

Biogas/RNG has the added benefit of capturing methane emissions and keeping them out of the atmosphere (where their damaging effects are in fact much greater than CO2's). We had an excellent presentation in the SENR Committee last fall from Paul Suto of Portland BPS on the new methane-capturing facility at the Columbia Boulevard Wastewater Treatment Plant. I believe that much of the RNG from that facility is going down to California as a result of their more mature Low Carbon Fuel Standard and Cap



& Invest programs. I look forward to the time when market forces make it more viable for us to put that fuel to use here in Oregon.

Along those lines, I'd also encourage the City to look at potential uses for RNG in sectors other than transportation. Last year the Legislature passed SB 98, a trailblazing piece of legislation that directs the PUC to make it easier for utilities to replace fossil gas with RNG and hydrogen in their pipes in the future. (Michael Jordan provided a letter of support for the bill on behalf of the City, which was very helpful.)

SB 98 includes the following legislative findings and direction:

SECTION 2. (1) The Legislative Assembly finds and declares that:

(a) Renewable natural gas provides benefits to natural gas utility customers and to the public; and

(b) The development of renewable natural gas resources should be encouraged to support a smooth transition to a low carbon energy economy in Oregon.

(2) The Legislative Assembly therefore declares that:

(a) Natural gas utilities can reduce emissions from the direct use of natural gas by procuring renewable natural gas and investing in renewable natural gas infrastructure;

(b) Regulatory guidelines for the procurement of renewable natural gas and investments in renewable natural gas infrastructure should enable the procurements and investments while also protecting Oregon consumers; and

(c) Renewable natural gas should be included in the broader set of low carbon resources that may leverage the natural gas system to reduce greenhouse gas emissions.

I know that there is local interest in expanding methane capture from wastewater treatment, food sources, and landfills, and putting it to productive use, including, where appropriate, in replacing fossil fuel in buildings and factories. I hope that future reports can tease out this potential.

Again, I want to express my deep appreciation of the work that Portland and BPS is doing to address the climate crisis. The City's actions will make it easier for Oregon to meet the statewide goals that we **MUST** meet if we are going to join the rest of the world in doing our part.

Respectfully,



Michael E. Dembrow

Senator, SD 23

Chair, Senate Committee on Environment and Natural Resources



Moore-Love, Karla

From: Diane Meisenhelter <meissun@hotmail.com>
Sent: Monday, December 9, 2019 1:15 PM
To: Council Clerk – Testimony
Subject: testimony for 100% renewables hearing

To Portland City Council and Mayor Wheeler,

With respect to the City's 100% renewables goals, there are hard questions to be asked of our utilities about ramping up the rapid transition given the most recent scientific evidence. The IPCC report right before COP25 in Madrid, said that globally carbon emissions need to drop at least 8% annually to avoid catastrophic climate change. Since the US is the second largest emitter of greenhouse gasses in the world and the highest emitter per capita, our required action is higher than that. We are currently on a path towards 3.7 degrees C.. At 4 degrees C. 60% of global crops fail, yet emissions overall keep increasing. The City Climate Action Plan is too little, too late. The response will require a WWII type of mobilization. We need annual concrete steps towards a rapid managed decline of fossil fuels. If Portland, seen internationally as a "green" city, can't set the stage in terms of what needs to happen, who possibly will?

Utility representatives presented testimony to the County on the 100% renewables goal earlier this fall. PacifiCorp has intentions to keep half of their Oregon coal plants past 2030 and PGE's goal is still only 40% decarbonization by 2035. Both are totally unacceptable and inadequate given what scientists are telling us about the climate crisis. NW Natural focuses on the smokescreen issue of renewable natural gas while still pushing Liquified Natural Gas and offsets instead of decarbonization or dealing with their substantial methane leakage issues. The utilities made clear their strategy of "tailoring their approaches to their markets" which means while they might through consumer purchase programs get closer to renewable energy goals for electricity in Multnomah County, they will continue business as usual in most of the region thus contributing to climate disaster. Other major cities like Seattle and Tacoma source most of their electricity from renewables while Multnomah County still sources 67% from coal and gas.

Given how repeatedly scientists are telling us we must do more and faster, Extinction Rebellion pushes towards Net Zero 2025 knowing that we haven't seen the full impact of the albedo effect and feedback loops. We will not come close to reaching the timeframe set by the IPCC (which continues to shrink), if we do not put into place ambitious goals now. 2050 is far too late for Net Zero and yet those within the City who measure emissions tell us we are not even on track for that. Therefore, XR demands that you consider annual concrete steps towards managed fossil fuel decline; clean energy investments; transforming local agriculture and food systems; a move away from auto-centric transportation planning; broad energy

conservation measures; carbon rationing; low-cost electrified, accessible public transit; carbon sequestration through natural means, carbon sink natural areas protection programs; holding the thin green line against fossil fuel exports; carbon taxes, and more. In September, XR delivered demands for a concrete action plan for 2020 towards reaching Net Zero more rapidly. Such measures will not only create jobs as we transition to a more just and healthy society, but could be a model for other municipalities to follow.

We know if there is not an annual decarbonization plan then sufficient change will not be forthcoming. The 5 year timeframe for the City's Climate Action plan has demonstrated inadequacies given rapidly changing conditions. Therefore, it is critical to come up with annual goals and concrete steps in line with what the best science is telling us—even if it is in the form of an annual decarbonization action checklist for each year to reach a decline of at least an 8% or higher percentage amount given what US emissions demand.

Extinction Rebellion supports an inclusive citizen's assembly process involving youth, frontline communities, grassroots climate organizations, and citizen stakeholders. We also have to balance the critical timelines facing us and should not postpone upgrading the City's Climate Action Plan in 2020. We must begin by expanding who is at the table and identifying steps that everyone can get behind and start implementing as we work through the more difficult issues. The time to act is short and we hope to see more of Portland's bold leadership. Many other municipalities and states and climate think tanks have ideas that should be tried here and, in turn, we need to do more to model for others. What are your New Year's Climate Resolutions for 2020?

Sincerely,
Diana Meisenhelter, Extinction Rebellion PDX

Diana Meisenhelter
Cell: 503-349-1460
meissun@hotmail.com

Moore-Love, Karla

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Sincerely,
Diana Meisenhelter, Extinction Rebellion PDX

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Cell: 503-349-1460
meissun@hotmail.com