



Representing the Propane Gas Industry for  
Alaska, Hawaii, Oregon and Washington

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Testimony of Baron Glassgow

Executive Director, Pacific Propane Gas Association

In Support of the Pembina Pipeline Corp.'s Proposed Propane Terminal at the Port of Portland

City of Portland Planning and Sustainability Commission

January 13, 2015

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Mr. Chairman and Members of the Commission,

My name is Baron Glassgow. I am Executive Director of the Pacific Propane Gas Association. I am also Senior Director of the National Propane Gas Association. I have served in these positions for nearly 25 years.

I am testifying in support of the propane terminal proposed by Pembina Pipeline Corporation at the Port of Portland.

Pembina is not a member of the Pacific Propane Gas Association so we are not here to simply support one of our members. Portland residents and the citizens of Oregon are already improving their energy future through the increased use of propane. With your support, the proposed propane terminal will help reduce harmful emissions and greenhouse gases across the globe by facilitating the use of propane rather than fuels such as coal, fuel oil, gasoline and diesel.

The Governor's Clean Fuels Advisory Committee has already recognized the clean-air benefits of propane. Clean air benefits of propane include:

- Propane-fueled vehicles have a lower carbon footprint than gasoline with up to 18% less Greenhouse Gases;
- Propane vehicles emit fewer criteria air pollutants than gasoline and diesel, with propane vehicles emitting up to 60% less carbon monoxide compared to gasoline and more than 30 times less particulate matter than diesel vehicles;
- Propane vehicles emit significantly less harmful toxic substances than gasoline, including 20-90% less Benzene, Acetaldehyde, Formaldehyde, and 1,3-Butadiene;
- Propane vehicles have lower maintenance costs than gasoline and diesel, as propane burns cleaner, experiences significantly less carbon build-up, and has the potential for increased engine life; and
- The carbon intensity value of propane makes it an ideal fuel to offset the use of gasoline and diesel.

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It is anticipated that the proposed terminal will serve the world energy market, and specifically provide propane to Asia. I am admittedly no expert on world energy markets. However, it is well known and documented that Asia's energy needs are huge and growing.

Before the 2011 accident, in which a tidal wave caused three of the six nuclear reactors at the Fukushima Daiichi plant to go into meltdown, Japan only got 62 percent of its electricity from fossil fuels. Nuclear power made up the vast majority of the rest. Since then, hopes that the Japanese government would use the incident as an opportunity to move to renewables have not panned out. According to Bloomberg, coal and liquefied natural gas rose in fiscal year 2012 to make up 90 percent of Japan's electricity generation. And on April 11, the Japanese cabinet approved a new energy plan that designates coal as an important long-term energy source, giving it the same prominence as

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nuclear in Japan's energy strategy. The new plan sets no specific goals for electricity from renewable sources such as wind, solar and geothermal. Providing clean-burning propane to Japan will help reduce their reliance on coal.

A glimpse at China's energy sources paints a bleak picture for emissions. According to the U.S. Energy Information Administration, coal supplied 69% of China's total energy consumption in 2011. Oil was the second-largest source, accounting for 18% of the country's total energy consumption. While China has made an effort to diversify its energy supplies, hydroelectric sources (6%), natural gas (4%), nuclear power (nearly 1%), and other renewables (1%) accounted for relatively small shares of China's energy consumption. The Chinese government plans to cap coal use to below 65% of total primary energy consumption by 2017 in an effort to reduce heavy air pollution that has afflicted certain areas of the country in recent years. However, absolute coal consumption is expected to increase by over 50% by 2040, reflecting the large growth in total energy consumption. As a result of high coal consumption, China is also the world's leading energy-related CO<sub>2</sub> emitter, releasing 8,715 million metric tons of CO<sub>2</sub> in 2011.

Export of clean-burning propane to Asia from the propane Pembina terminal will help reduce greenhouse gases and emissions worldwide. This is an objective that Portland residents will be proud to support.  
By fax to 253-620-2227

November 6, 2013

AllianceOne Receivables Management, Inc.

RE: Writ of Garnishment  
Case No. 13C4724-2  
Antonio Martinez

The Pacific Propane Gas Association does not employ Antonio Martinez, nor has the Pacific Propane Gas Association ever employed him. To the best of my knowledge, I do not know who Mr. Martinez is. I have been the PPGA Executive Director for nearly 24 years.

Thank you for your time. Please contact me at [bjglassgow@npqa.org](mailto:bjglassgow@npqa.org) or 480-922-1056 with any questions.

Respectfully,

Pacific Propane Gas Association

Baron Glassgow  
Executive Director

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