

Testimony in Support of SB1530 – Feb 4, 2020

In 1980, I transitioned from nuclear energy to renewables working to commercialize several forms of solar energy technology. Back then, there was no climate movement, but many of us were aware of its potential harm, and were motivated to prepare the technologies of the future.

In 1989, I watched on TV as the Berlin wall was torn down, and I recall someone from the environmental community saying – “The cold war is over and the battle to save the planet has just begun.” Communism (read socialism in many people’s minds) had failed and the entire world converted to Capitalism.

But unbridled Capitalism is now destroying our planet’s climate and other ecosystems in the name of profit. Because when shareholder value is the only metric, then workers, communities and the environment are given no value and no voice in decision-making.

Capitalism (meaning market-based systems) is ubiquitous with human civilization, but Capitalism must be reformed to serve the community and not solely profit! What drives Capitalism to Exploitation?

- **Hyper-individualism** – Philosophies (such as espoused by Ayn Rand) glorify the unique individual and disparage the community in which that individual must exist and interact.
- **Patriarchy** – Hierarchies based on the indoctrination of males into “not caring” about their feelings or the suffering of others, and females into “not speaking” what they know in order to be the supportive.

Markets are places to buy and sell goods and services, which are organized through five bodies of law, which set the rules for having a “market”

1. **Property:** What can be owned
2. **Monopoly:** What degree of market power is permissible
3. **Contract:** How is property bought and sold and on what terms
4. **Bankruptcy:** What happens when purchasers can’t pay
5. **Enforcement:** How to make sure no one cheats on any of these rules

Without these government-based rules, there is no market. The concept of a “free market” is a myth and an idol that wealthy individuals and corporations use to justify rigging the rules in their favor. In a democracy, we the people can and MUST change these rules. But how?

Most people currently believe Capitalism and Socialism are opposites, but what if we consider them as complements. Consider a new global economy built on a synthesis: capitalism and socialism working together, each strengthening the others’ weakness, a kind of yin and yang of human organization.

SB1530 tries to achieve such a balance between market signals, which require climate warming polluters to reduce their pollution and social justice in ensuring that proceeds raised by the auctioning of allowances to be used primarily to directly benefit impacted communities in rural, coastal and minority areas.

I support SB1530, in spite of the fact that it's inadequate in many way compared to the dramatic action that's really needed to combat the climate emergency we face as a species. I believe the bill should be strengthened in the following ways:

- Declare a climate emergency. Our global civilization has less than 8 years of carbon emission budget left before the 1.5°C temperature rise is lost, and run-away climate tipping points become a much more significant threat. The bill should have a target of 50% by 2035 and 100 by 2050.
- Ensure greater involvement of impacted communities into the planning and governance of the program, and guarantee that funds will be used predominantly and directly to help impacted communities mitigate the effects of climate change.
- Require strict and transparent regulations on covered entities, especially large consumers of natural gas, to justify their TENGU or EITE status, strengthen their requirements for thorough audits and increase the requirement that they implement cost-effective projects to reduce their greenhouse gas emissions.
- Incorporate at least 90% of all on-road transportation emissions by the second phase, and require 100% in the program no later than 2030.

One element the bill must **not** have is any provisions to preclude legislation in the future designed to further reduce greenhouse gas emissions, increase incentives for clean energy, or advocate for programs to strengthen funding to impacted communities.

Although I support SB1530 and advocate for improvement to strengthen it, I declare my commitment to demanding that much more climate action is needed, especially in the following areas:

- A statewide ban on new fossil fuel infrastructure
- Legislation to address agriculture and forestry emissions
- A Constitutional Amendment to convert the Highway Trust Fund to a Public Transit Trust Fund
- A Body of Law to protect the Rights of Nature
- Direct incentives for electric vehicles and charging infrastructure

Sincerely,

Dr. Pat DeLaquil
155 SE 16th Ct.
Gresham, OR 97080



www.decisionwaregroup.com

Dr. DeLaquil has been a leader in the commercialization of clean and renewable energy technologies for 40 years. He is currently CEO of DecisionWare Group, which is a small business that develops and uses MARKAL/TIMES models to perform policy analyses, conduct energy supply - energy security studies, and undertake capacity building and model transfer on behalf of donors, governments and the private sector to identify optimal pathways for achieving economic development and environmental goals.

Dr. DeLaquil's expertise covers technical, market and financial services to government, multilateral and private sector clients interested in the development, commercialization and market introduction of clean, renewable and energy efficient technologies. He was recently Director of IRG-Analytics for International Resources Group, which is an international development consulting company working for USAID, Asian Development Bank and others. He has led the formation of two clean energy start-up companies: EnergyWorks, a Bechtel-PacifiCorp joint venture, which out-sourced energy services for major industrial companies in developing countries through renewables and cogeneration, and another to market biomass gasifier systems to agribusiness customers in developing countries.

Prior to that, Dr. DeLaquil managed Bechtel's interests in the development and commercialization of renewable energy technologies. Key projects developed by Dr. DeLaquil and his group were the PV-USA Project with Pacific Gas & Electric and the 10 MW Solar Two Power Tower Project with Southern California Edison.

Dr. DeLaquil started his career in renewable energy technology development at Sandia National Laboratories, where he performed several studies evaluating the cost and performance of solar power tower technologies for both utility and industrial process heat applications.

Dr. DeLaquil holds a Ph.D. in Nuclear Engineering from Massachusetts Institute of Technology and a B.Sc. in Marine Engineering from the US Merchant Marine Academy. He has authored over 100 papers, reports, and articles on solar and renewable energy including chapters in two books on renewable energy technology. He was a contributor to the 2nd IPCC report and holds a patent for a high temperature solar receiver.