

Dear Oregon Rep. Ken Helm, Chairman of House Energy and Environment Comm. **Please say no to SB 990.** This bill involves the Small Module Nuclear Reactors being promoted by Nu Scale. I feel that it is important to put the health and wellbeing of the people of Oregon first, and I ask you to vote NO on this bill for the following reasons:

Nuclear power is unreliable! 5 countries are phasing it out, and other countries have shut down their plants (all but three of Japan's 50 plants are shut down). One plant in Japan cost 10.1 billion USD, produced only one hour of power, then it was permanently shut down.

This is an unproven technology. NuScale's reactor design has not received approval by the Nuclear Regulatory Commission. A similar small module reactor in France is reported to have exploded in February 2017.

There is no permanent repository ready in this world to accept the waste that will be generated by these reactors. We have yet to clean up Hanford Nuclear Reservation.

We are trying to prepare for a 9.0 earthquake in Oregon and building a nuclear reactor while we are under the threat of such catastrophic proportions will be ill-advised, not only regarding possible meltdowns, but also contamination of water supplies in the center of cities and counties. This could endanger many thousands of people and their property.

We are unable to insure our homes or bodies in the case of a nuclear accident.

The Department of Energy has gone through years of trying to locate and centralize their storage and disposal of high level nuclear wastes containing plutonium and other radioactive isotopes, and now, **this bill proposes to produce more nuclear materials in an increasingly decentralized manner, putting us all at risk for nuclear contamination.** Not only that, all nuclear plants are potential targets in acts of war and in acts of terrorism. No matter how safe a reactor design, nothing can ultimately prevent their destruction and spread of radioactive materials, except not building them in the first place.

Our citizens will be more at risk of nuclear accidents because of greater movement of nuclear materials over our roads, as our infrastructure is in greater and greater need of repair.

Nuclear power continues to be unsustainable financially and has needed federal subsidies. This money is better spent on solar, wind and other renewable energy sources which are healthier and less in danger of causing harm to our citizens and environment.

Nuclear power is the worst of all sources of energy because the mining of radioactive materials harm the people and animals where they are mined. Next, this industry harms many of those who work at the sites of the reactors and handle the materials, and harm also comes to those who live nearby, from nuclear emissions. Finally, handling and managing the wastes continues to harm workers and all of us who gradually are the recipients of the waste by the use of recycled low level radioactive waste, contaminating building materials and metals entered into mainstream usage (eg: playground equipment).

Nuclear power causes cancer by exposure to known radioactive carcinogens. By creating nuclear plants of any size, we are condemning our offspring for hundreds of thousands of years to bear the burden of these wastes. There are alternatives that are much cleaner.

We know from follow up studies from Chernobyl, that accidents severely harm people, animal, bird and plant populations after a nuclear accident occurs. We have no need to subject ourselves to this technology! **We citizens of Oregon rely on our representatives to have our best interests at heart. Please say NO to SB 990.**

Respectfully submitted, Dr. Joyce Follingstad, Portland, OR