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Subject: Dear Board - nanoparticle engineered solar panel coatings
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I have been researching micro and nanoparticle coatings for four years, starting with the Dupont's history of poisoning the environment with PFAS chemicals and the Jinko panel coatings touted on trade sites for their nanocoatings' outstanding energy production and then reviewed in PV magazine down the road as having issues with moisture in the field or coating cracking or bubbling...These are proposed for the Fearing Hill solar project in West Wareham- in a residential neighborhood with 60% private wells in the most immediate tier around the hill which is our watershed. "All perfectly safe" say the proponents unless you read the latest science on panel coating degradation after 1,330,000 (25 years) continuous hours of constant weather exposure- extremes of temperature and precipitation, wind blasts, beating south facing solar UV on human made sealants, salt, humidity, lightening, etc. Whereas "safe" is verified by a few hours in damp chambers for example and not in the field for years on end. Our forests have been stripped, our sand hills have been stripped and what remains is 4 feet of porous sand buffer to our sole source Aquifer.- The rare Carver Plymouth Sole Source aquifer. Why four-4- feet? because that's the dimension of a septic system. So if you were to sell your property there would be room for a septic tank. That's the code- although Cape Cod is changing to 5 as they deal with the plumes of PFAS that plague them. Ludicrous as still the protection for our water.

And with no purification tanks for pollutants- just a straight shot from the pollutant of degrading anti-reflective and hydrophobic panel coatings through 4 feet of swiftly run through porous sand. Where is your protection of these particular hydrogeologic circumstances? Your rules are radically insufficient and harmful if you study the panels, the topography, the water and needs of purity for the people. Health safety and welfare are barely touched. with the understanding that nanoparticles are in the placenta, in mother's milk, in our brains, in the vast ocean depths and poles of the planet. We are awash with metal polymer nanoparticles, one of which is the size of 3 atoms of gold- the science of creation in the hands of an industry hell bent on producing the most wattage to beat the competition. The nanoengineering race has been on for many years with the funding for studying its dangers lagging far behind.

And now with the stripping of health and safety institutions and research, the industry will have a hay day. You will be the agency who let it happen without proper investigation and prohibition of dangerous materials

Please take the time to read this article and consider the immense gravity of your siting decisions.

You can tell I'm whipping this off as a friend reminded me of the deadline. I can be reached at 774-454-7541 if you have questions which I hope you have and ask people who are studying this very scary application.

Here I include an overview recently published in the NYT, You may also have read of the New England Journal of Medicine's study of the far greater incidence of cardiac devastation if nanoparticles are found in the carotid artery of the patient. Studies now have the advantage of machinery that can count particles, document them and link them to consequence. The cross the board approval without knowing what coatings are even on panels before construction- check the process in our town boards- is extremely dangerous and can easily lead to the massive suits that continue to follow 3M and Dupont for the scourge of PFAS. With deregulation and no enforcement there is far greater health risk than we can imagine. Remember 9-11 and the pandemic- the lack of imagination. Due Diligence, Folks. It's your Job.

https://www.nytimes.com/2025/05/20/well/microplastics-health-risks.html?unlocked_article_code=1.KU8.QF51.kT25spdzaNI&smid=em-share

Sincerely, and Sharing the knowledge that citizens with the most at stake in our children's health, our food safety, our precious wildlife and plants, our increasing contraction of Lyme's disease, increased heat and drought without the forests, the tainting of our water with forever chemicals by land and air and water.

Your policy can destroy our water which is life itself. The ability of reckless nanoengineering to cause environmental collapse has already been set in motion.

(Nanotechnology and Global Sustainability)

https://www.academia.edu/191950/Nanotechnology_and_Global_Sustainability

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