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What about hydrogen and CFS?
At this time, I urge the State of Washington NOT to invest in the production of electrolytic-renewable-hydrogen. It's too expensive at this time. Instead, invest in more cost-effective projects. Get more bang for the buck.
Hydrogen is the smallest molecule in the universe and is prone to leaks and is also an indirect greenhouse gas. The global warming potential of fugitive hydrogen is about 30 times the GWP of CO2.
Don't plan to use electrolytic-renewable-hydrogen for trucks, buses or for buildings. The direct use of electricity is more efficient in trucks, buses and buildings than electrolytic-renewable-hydrogen.
Most of our fertilizer is made with dirty hydrogen.
We don't have a surplus of clean and renewable electricity. Electrolytic-renewable-hydrogen should first be used to replace the dirty hydrogen used to make fertilizer.
Dirty hydrogen is produced by the steam reforming process. It's called dirty because CO2 is a by-product.
The most urgent time to reduce emissions is in the next ten years. During that time, the most cost-effective way to reduce emissions is to invest in conservation and renewables, and use the renewables to power the grid, EVs and heat pumps.
Then replace dirty hydrogen with electrolytic-renewable-hydrogen.
Lastly, make electrolytic-renewable-hydrogen for flight.
A great deal of energy is wasted by the process of storing hydrogen.
Using hydrogen as a method for storing energy is wasteful. It makes sense only when the rest of our economy is decarbonized.
Let's not obsess now about SAF for air travel. That's only about-3% of the emissions.