



zNano Water Filtration Systems (Booth 24) (/initiative/4Wct/znano-water-filtration-systems-booth-24)

Water treatment and distribution systems (WTDS), including desalination and advanced water treatment (AWT) recycling, are expensive in part because they require additional infrastructure. There is a \$500 billion shortfall in financing to maintain current water infrastructure. We propose a third option: distributed advanced water recycling using system like the zNano z2o water recycling system. In comparison, Desalination (San Diego) is \$41 per HCF/ Year, AWT is \$56 per HCF/ Year, and zNano AWT is \$9.22 per HCF/ Year. zNano AWT is >4x lower cost than desalination! Our lower cost is due to the elimination of distribution infrastructure and economies of scale.

Comments

Jim Mekis 4w ago

SUGGESTION

The concept is good, but zNano appears to be more of a proposal from a start-up, rather than a real product that has demonstrated that it can scale to meet the needs of the City.

Vivienne Orgel 3w, 2d ago

NEUTRAL

Hi, Thanks to everyone for all the efforts involved, but I'm guessing a lot as I don't know the costs to ratio of water increase for all of these plans, their durability, their feasibility etc...

I love the idea of recycling water for non-food crops and for golf courses...and of using shower water for toilet flushing if there were a way, and rewarding reduced use customers, and the idea that loans for projects might be worth it if they save money for the city/customers in the long run...and encouraging practical cheap ways to conserve energy (or perhaps city would install some water-saving devices free or cheaply...) Limiting population growth seems reasonable, as there may be droughts in the future and we should be able to be self-sufficient...If the moisture from Air system/DewPoint really works and doesn't strain organisms by reducing moisture, that seems good too and the Ranney collectors...water transfers that maximize sharing water resources and recharging aquifers without water racing muddily to the bay sound good...

I want attention paid to not stressing birds and fish and wildlife in any diversion of rainwaters to quarries (sounds good if sealed and not getting toxic rock or human previous residues)...refilling the aquifers and avoiding ruining equipment with turbidity issues seem important...I oppose de-sal due to using huge amounts of electricity...thanks...Great start to exploring options...

Manu Koenig 1w, 4d ago

SUGGESTION

Znano, with this and your other initiative, it would make more sense if you outlined the specifics of the conservation rebates you are proposing rather than the specifics of your technology. Individual homeowners and businesses will make the decision on whether or not to buy Znano recycled water systems. This workshop is for the public to decide what policies and programs they want their water department to implement. You'd be better off framing this in terms of a specific policy for the public to evaluate and adopt.

zNano 1w, 4d ago

Hi Manu. Thanks for your comments. We should have made the specifics of the rebate more clear. The economic model for a custom rebate presented is based upon the current custom rebate available from Santa Clara Valley Water

District. <http://www.valleywater.org/Programs/CommercialRebates.aspx>
(<http://www.valleywater.org/Programs/CommercialRebates.aspx>) Thanks for
your interest.