

Jennifer Elwell

From: Bruce Naegel <bnaegel@sustainablesv.org>
Sent: Monday, November 1, 2021 10:23 PM
To: BAAQMD Comments
Subject: Support of the BAAQMD Zero NOx solution

CAUTION: This email originated from outside of the BAAQMD network. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Dear BAAQMD Commissioners,

Mark Hoffberg (part of 350 Silicon Valley) and I support the move to all electric heating, cooling, cooking and hot water generation. We need this move to get to our climate goals.

Thank you for opening your proceedings up to the public.

Thank you for addressing the issue of equity in a defined manner. This is a new policy class. There will be challenges in determining how programs can make sense for the infrastructure and for low- income households.

Some thoughts on the BAAQMD Proposal.

1. Hopefully the proposal It includes the low / mid income people. It is likely NOT just the low-income households (e.g. CARE recipients).
2. Financing solutions are needed. A simple incentive program will not be sufficient. The size of the problem will require new methods of funding. We need to think about ideas like Green Bonds and Tariff on Bill Financing. Bruce Hodge and Bret Anderson have been working on Tariff on Bill Financing.
3. We need to get smart about how we allocate electricity. Tom Kabat developed a set of tools for minimizing the peak current usage .Some of his thoughts are embedded in SB 68 (https://leginfo.legislature.ca.gov/faces/billTextClient.xhtml?bill_id=202120220SB68). This kind of thinking is needed to address this problem. Note: This can help address the need for expansion in 90A electrical cabinet.
4. Labor need to be formally at the table is labor. One of the complications will be what is the scope of work for a specific plumbers or electrical contractors license.
5. We need to provide for the emergency leaking hot water tank. If the prewiring is not done, the household will replace like for like.

As an example, the water heater failed for a co-worker before we had these programs in place. The water heater was filled with material preventing it from producing hot water. The problem was recognized on Friday. Saturday the household found a water heater and plumber they were comfortable with.

On Sunday

they were back on line. The total cost a few years ago (40 gallon water tank) was under \$1500. We need to recognize this is the competition.

6. There are 230 Volt Heat Pump Water heaters that only draw 15 A (Rheem). In 2022, we should be seeing 115 V Heat Pump Water heaters. These selections should be in the product offerings.

7. The CCAs should be part of the mix to partner with to scale up programs.

8. The 110 V Heat Pump Water Heater is close to being available. This should be factored into plans along with the 15 A 230 V Heat Pump Water Heater.

9. The CCAs have programs that should be integrated into plans of groups of organization. CCAs alone will not be able to address this problem by themselves. We need more partners.