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Stacking

I don't know if this qualifies as stacking but one thing to consider is having HOMES/EBD follow after Weatherization Assistance. This would be most acceptable to low income households because a trusting relationship already exists. It would allow for smaller heat pumps and lower electric bills because these homes would already be leak sealed, insulated, and have new windows. WAPs already do duct repairs and replace furnaces and water heaters but in my area they only install gas appliances due to price and lack of experience with heat pumps. A relationship with HOMES direct installers could also expand the skills of WAP staff and local contractors.

It sounds as if you have decided that 100% of HOMES rebates will go to low income households in DACs on top of HEEHRA and EBD.

I think modeling is much better than measurement for many of the reasons you described. Withholding rebates until performance is measured creates too much uncertainty and feels too Big Brotherly and invasive for owners and tenants. If you decide to go that way, perhaps a the iBank or a new Green Bank could front the funds so contractors are paid right away. Using a green bank to leverage private dollars will enable these public programs to serve more people.

If you take the measurement approach, the fixed percentage is better because it hews more closely to cost. Funding can stretch further as prices fall, which they will as demand for heat pumps and induction stoves increases. The performance path looks like it doesn't pay as much of the actual cost as the fixed cost option and it creates too much uncertainty for small contractors who are more likely to be BIPOC than large companies.

Measured energy savings in the first year of install will not completely reflect the long lasting value of efficiency and electrification. Experience has shown that the behavior of inhabitants still has a large impact on energy use even in efficient buildings. I remember hearing from a tribal sustainability officer about how they put heat pumps in all their tribal housing but the residents circumvented it because they were unaccustomed to that type of heating. According to a study by the Lawrence Berkeley National Lab, nearly 90% of Americans say they've rarely (or never) programmed their thermostat because they're not sure how to do it. It is going to take awhile for people to learn about these new devices and be able to maximize energy savings. It is also going to take awhile for utilities and aggregators to fully harness the virtual energy saving capabilities of new electric appliances.

Thanks for the chance to provide input. I hope it was helpful.