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Response to Cynthia Packard re ADU electric resistance WH

In response to Cynthia Packard's question about an electric resistance water heater with point-of-use distribution:

Given that you are highly conscientious of water usage and the energy use of this, there is a possibility under the performance method that compliance could be achieved by pairing the point-of-use electric resistance water heater in this ADU with a thermosiphon or other small solar thermal system. It may be worthwhile for you to look into an energy consultant familiar with Title 24 performance software to model all the features of the ADU design, and from this determine what solar savings fraction would be sufficient to arrive at a compliant report in that fashion. This would of course be an extra item with its own cost, but perhaps less than you are quoted for the HPWH, and could also involve a smaller tank size than the 40-50 gallons of the HPWH. All speculative of course since I haven't seen your design, I just wanted to make it known possibilities exist.