

<p>My review of Martin's great blog with my idea of what is a proper comparison. The tanks are all lifetime tanks in my group either stainless steel and or plastic with lifetime manufacturer's warranty.</p> <p>Marathon water heater may add \$650</p> <p>The best heat pump water heaters may add \$500</p>	<p><b>House A:</b> Electric resistance water heater plus a solar thermal system supplying 63% of the home's domestic water <b>Note: lifetime quality tank price used I.E. Marathon tank which matches the quality of a solar thermal tank</b></p>	<p><b>House B:</b> Electric resistance water heater plus a PV system supplying 63% of the home's domestic water <b>Note: lifetime quality tank price used I.E. Marathon tank which matches the quality of a solar thermal tank</b></p>	<p><b>House C:</b> Heat pump water heater plus a solar thermal system supplying 63% of the home's domestic water <b>Note: lifetime quality tanked heat pump price used which matches the quality of a solar thermal tank</b> <b>Note 2: Btus gathered from outside the thermal envelope such as the garage in my zone 6 may drop thermal COP annually to less than 2</b></p>
Installed cost of the electric water heater	\$0.00 built into solar thermal tank system	<b>\$1,850.00</b>	<b>\$3,500.00</b>
Size of needed PV system	<b>NA</b>	<b>1.71 kW</b>	<b>1.28 kW</b>
Installed cost of the solar equipment	<b>\$9,000.00</b>	<b>\$6,395.00</b>	<b>\$4,796.00</b>
Total cost of water heater plus solar equipment	<b>\$9,000.00</b>	<b>\$8,245.00</b>	<b>\$8,296.00</b>
Projected costs if solar thermal was mass produced and had major market share verses today	<b>\$6,500.00 (less than PV)</b>	<b>NA (Already major market share priced)</b>	<b>NA (Already major market share priced)</b>

Note 3: My adjusted guess for zone 6 where basements run below 50 degrees winters closer to 32 degrees in some cases that I know of with no basement furnace.