



EMF and Solar January 2024

Electromagnetic Fields (EMF) are a concern to BPVS. We use specific meters to measure the equipment we specify and when a customer asks, we can survey the EMF of other on site devices and their electricity circuits. It is not our intent to promote un- scientific theories and assertions about EMF or RF, radio frequency and microwave sectors of the spectrum such as 5G and cellphones or their towers. Enough to note there are many responsible medical researchers, physicists and biologists concerned with the health and resource issues of EMF and RF. There is a growing body of peer reviewed literature which taken in summation counsels prudence on exposures. An excellent internet portal for information is at <https://mdsafetech.org/>. The newest reports and studies uploaded in 2023 are sobering.

Our designs of solar circuits and choice of equipment as well as where we place equipment and how our electrician subs install and connect wires and Wi-Fi devices is based on precise measurement of EMF and RF and we limit occupant exposure to below European standards which are much stricter than those in the US.

We're also careful to prohibit energy inefficiency effects of common wiring and design practices and short cuts for PV systems.

Most solar customers do not have the expertise to ask the right questions of their installation contractor. Some solar firms and electricians may choose the cheapest methods and materials resulting in just meeting the electric code requirements. We specify wiring methods that cancel out EMF in local transmission. From the start and over their lifetime, BPVS PV systems produce more electricity savings because of our care in design specifications and the installation techniques of our electrical sub contractors. Reducing or eliminating electromagnetic field losses thus has a two-fold purpose: optimal system energy output and reduced environmental exposure to potentially harmful emissions.

