

The Cannon Facility Engineering Report data forms the basis for evaluation of emissions and energy use for this proposed project. We have looked over Canon's energy use calculations and have uncovered many bad assumptions, errors in logic, and best-case, not worst-case, scenario planning. These errors throw off estimates for air pollution emissions, traffic, dust and noise and make it look like the project will have smaller affects than it actually will. We want to see a review of the Canon Engineering Report for calculation and logic errors so that a true estimate of emissions can be made.

Many factors in the calculations are also not listed which are very important. For example Canon does not list how much they will heat the oil/water separating tanks. These numbers are very important and they need to be presented up-front. They also cite a spreadsheet that was used to figure out how much energy will be lost in sending hot water to the injection sites, but the spreadsheet data is not made available for review. These numbers are very important and they need to be presented up-front so we can analyze all assumptions.

One major error is made in the calculation of how much heat is needed to heat water for the hot water injection system. They have forgotten to include the energy needed to heat the water from ambient temperature and have only included the heat losses in the pipes to the well site.

Let me give an example of this error. If you want 100F water in your shower then that water needs to be hotter, say 110F when it leaves your water tank. It will certainly cool off in the pipes a little. Canon accounted for the cooling off in the pipes, great. However, that water started out at a chilly 50F from your well and it takes lots of energy to heat it to 110F. Right? Well Canon didn't include this part of the calculation.

There are many more obvious errors and omissions like this that lead to grossly inaccurate results. We will detail each and every one of these in a memorandum to the EIR consultant. But, what we really want is an independent Engineer licensed in CA to review the Canon report for logic and errors so that the environmental review will be fair and accurate.