Point Loma Procedure

1. Make footprint using "**plfootprint.m**" and empirical efficiency curve(s) using "**pvfit.m**"
    1. Comments are in scripts. They should be pretty self-explanatory.
    2. Don't forget to edit things in the deployment.conf afterwards

2. **In siPowerElmt.m:** You'll have to come up with some way to load in PV data from your panels. Convert to kt using empirical efficiency curve, as in the UCSD case.
    1. Convention is with 1s data, NaN for no data, and time on first dimension, and different panels on second dimension.
        1. i.e. every 30s: power.inverter.kt = array(30, #panels)
            1. (it is important that power data goes into power.inverter.kt)
    2. You should probably make a new case just for Point Loma, as bad practice as that is, like:

```
elseif isfield(target,'data_type') && strcmpi(target.data_type(1),'VARIABLE') % PL
PV data
pwr_elmt.inverter.kt = blah(30,1);
```

...Because loading PV data for different sites will probably require different data procedures. Right now, there's a no data case which I'm using for Point Loma. We should probably just leave this in, in case we encounter another site with no power data for whatever reason.

3. **In siForecastGHI:** Here's where it gets hacky. I now remember that I kind of hacked in the Point Loma case because it didn't contain any power data, so I tried to force it to use defaults. If you want to, you can probably try to generalize this section. Specifically, I'm referring to this line:

```
if doCombo || strcmpi(target.name,'pointloma')
```

    You should be able to change it to something like:

```
if doCombo || doPV || strcmpi(target.name,'pointloma')
```

    Where doPV is defined something like:

```
doPV = isfield(target,'data_type') && ~strcmpi(target.data_type, 'ghipv') &&
~strcmpi(target.data_type(1), 'g');
```

    Or something. Basically, the block of code with the if statement above just processes individual footprints for individual PV panels as long as PV panels are known to exist within the footprint. It's made this way so you can generate individual forecasts for individual PV panels as well.

That's all I can think of; I think everything else should work. Just let me know if anything breaks; I'll most likely know why. Worst case, I can come Bitbucket spoon like the good old days. Good luck!