1. Shaun from True South coming on Tuesday

Necessary info from Shaun:

1) Does True South Solar use a variety of solar panels (as far as quality goes)? If so, can we get an average install cost for the best solar panels, moderately good, and the worst (that you guys install - I know that you use high quality panels so if two prices would be more appropriate, that would be fine too.) We will also need the expected output data for each different quality.

2) If the City has already determined which solar panel they want to use, the cost and output data for that panel would be great.

3) What are the dimensions of a typical solar panel? (We're putting together scaled plan view drawings so the kids will need to know what size to draw the panels.)

4) Do you by chance know the cost of installing panels on metal framed structures? And how about on poles? The city was saying that the panels on poles could track the sun - we need to include the initial cost increase in our cost estimates and weigh it against the long term payback of the system. If you don't have that information I think Zac will make up a number for us to use.

5) For systems that track the sun, how many degree do they actually rotate in a day? (We need to make sure that the poles are far enough apart to allow for movement.)

6) It's my understanding that the optimal alignment is south facing at an angle of latitude (so 42 degrees in Talent). Is that correct?

7) What is the best way to accurately calculate output and payback? On a monthly basis? Seasonal? Annual? It seems like annual would be the easiest, but is that how it's done?

8) How do plan system size? For annual average monthly needs? Worst cast months? Do we need to be that exact in our proposals to the City?

Information that we need but that I don't want the kids to know yet. We are going to conduct some experiments to see what happens to productivity as the alignment to the sun changes direction and panels are shaded. Do you have any estimates on how productivity changes with direction and quality of light? Maybe percent of output potential? It would be great to have an idea of what outcomes I should expect when we experiment with this on our own.

2) Site visit to determine directions, building heights, and tree heights (I need to make a copy of the site map for each student)

3) Lab 1: % decrease in production as solar panels face different directions (directions to be studied will be based on possible on-site alignments)

4) Lab 2: Shadow study for site (look at trees and along south side of parking lot and building)

Maybe <http://cityplanneronline.com/app/#trial>, or make a model???

5) Initial cost estimates based on aspect and hours of production; run multiple options - what would be the best plan based on cost and payback times?

6) Lab Extension: Solar cooking