

Smart Grid Evaluation

1. I liked how buttons at the top and side of the interface are highlighted when clicked on, for example when the graph is displaying for that type of grid and length of time (visibility of system status, reduces mode errors).
2. I liked that the buttons on top included an image, a caption, and, where appropriate, a total energy value. This is good on account of matching the real world for the image and efficiency for the total energy value.



3. If you change the display range for one of the different parts of the application, then it does not change the range for any of the other parts. This is an efficiency problem because the user probably wants to be able to compare what the different energies are like during the same time span. This could also easily lead to the user making a mode error and believing themselves to be in a time range that they are not in. (major – consistency and error prevention)
4. The total energy values displayed in the upper tabs (image above) would also need to change if the display range changes. It would be difficult for the user to remember which display ranges go with each tab and would cause problems if all the values were updated to the new range and then switched back when clicking on a new tab. (major - consistency and error prevention)
5. I am not sure why both device tree and sorted device list are needed. Device tree does not appear to have any kind of order, so wouldn't a user always want to look at the sorted device list (major - minimalist design).
6. Another problem is that the labels are very small even though there is plenty of space in the button to make them bigger (readability problem – cosmetic).

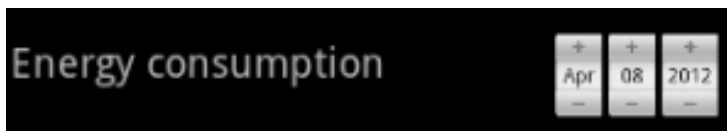


7. It also might be useful for the user to be able to see which devices are being shown or not being shown in the graph (minor – flexibility and efficiency).
8. I saw a couple of problems with your sell power screen, although some of these might just be things that you have not implemented yet. When setting a time for the transaction, you can choose a time that already happened (minor - error prevention).

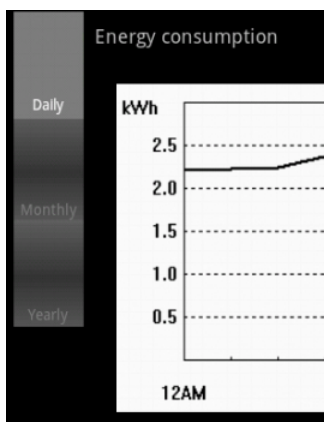
9. As of right now you cannot change the source, although it looks like you will be able to in the future. It would be much more efficient if you could change the source from this page because it would make choosing the wrong button in the previous screen more fixable (minor - error recovery).

10. The line on the chart is a little bit hard to quickly distinguish from the grid. It might be better to make it thicker or change the color of the line. (minor problem - readability)

11. The bar used for picking the date is small, which makes it hard to read. (minor problem – readability)



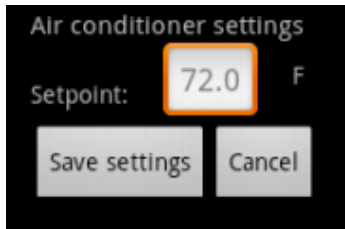
12. A readability problem with the daily, monthly, and yearly buttons is that they are not on the same level as the graph. (cosmetic problem).



13. Another problem with levels is in the sell power screen, time and at are not on the same level as the date and time. (cosmetic problem)



14. In edit settings, the temperature can only be set in Fahrenheit. Most of the world uses Celsius, so it would be useful to have an option for this. (cosmetic, internationability)



15. I am not sure where I would go to find a way to add or remove a device. I also read in your GR1 that you had plans to group similar devices together. I am guessing that the reason that I can't find these features is that they have not been implemented yet, but it would be nice to have them.

Thank you for the list of instructions on how to set up an emulator; it was really helpful.