

Sustainable Community Conditions

Neighborhood Inventory Checklist

SOLAR POTENTIAL

STEP ONE: Take an informal walk around your neighborhood to identify the streets or natural features that will set the boundaries for your inventory. Use one of the following scales:

1. My street (name)
2. 10 blocks (names of streets defining the area)
3. Half-mile radius with my house or apartment in the middle
4. 1-mile radius (like the [one-mile maps](#) of my school neighborhood)

STEP TWO: Print out this checklist or use your phone or tablet to make a detailed inventory of your neighborhood. You might also want to print out a screen shot from www.mywater.world to help you see from above what you are experiencing on the ground as you walk about. Take photo documentation of what you observe to use later in building your slide presentations.

Solar Potential Inventory

1. Number of homes with solar panels (# / total # of homes)
2. Number of commercial building with solar panels (# / total # of comm. buildings)
3. Number of apartment buildings with solar panels (# / total # of apt. buildings)
4. Number of school buildings with solar panels (# / total # of school buildings)
5. Number of buildings of all types that have excellent solar potential (mostly flat or south-facing roof, no shade from trees)
6. How would you estimate the percentage of rooftops that could go solar?

Challenge

7. kWh of energy generated per year (Use [PVWatts Calculator](#))
 - a. Your Home:
 - b. The Neighborhood:
8. Solar Radiation received (kWh / m² / day) (Use [PVWatts Calculator](#))

- a. Your Home:
- b. The Neighborhood:

How to use the PVWatts Calculator?

- a. Go to the [PVWatts Calculator](#) and input your address
- b. Move the pin to the top of your house and click on System Info at the top of the website
- c. Enter the correct information for each textbox (click on the 'i' to learn more)
- d. Click on 'Results' to record the data for your average solar radiation, savings, and AC Energy

Document additional questions, research topics, or insights for this section.