



Wind Site Assessor Training

Lesson 3.1 Quality

After the PowerPoint, run through the slides of good and bad siting.

Activities:

1. Fly a kite to determine where turbulence ends and laminar winds begin
2. Fly a weather balloon to determine where turbulence ends and laminar winds begin
3. Go outside. Have the students use at least two techniques to estimate the heights of trees and obstacles at the site. Compare the accuracy of the techniques.
4. Discuss how to estimate the mature height of trees at a site.
5. Go outside. Given a site or on a site visit, define an appropriate wind window for the proposed system. Ask: What do you need to know or look for to define a wind window?

Props

Kites

Weather balloon, lots of cord, crepe paper or yarn streamers, surveyors tape

Shovel or fence posts to estimate tree height with shadows

Yard sticks, 3' 1x2s, transit stick, or brooms to use to measure tree height

100' tape measure

Clinometer

Book of trees, preferably a local or state guide.

Homework

It would be good for the students to review the wind site assessment that was provided to look for places where the assessor is trying to avoid turbulence. This would make for a good class discussion.

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