



PA Home Energy Solar Site Assessment Training December 9, 2008 Agenda

- 9:00 AM PA Home Energy Update**
- 10:00 AM Overview: Five Steps to Solar Site Assessment**
1. Assess the solar resource
 2. Select systems
 3. Site equipment
 4. Survey installation factors
 5. Economic assessment: TREAT integration, cost and benefit analysis
- 10:15 AM What exactly is Solar Energy?**
Passive Solar Concepts
- 10:30 AM Break**
- 10:45 AM Active Solar Systems: Equipment, Energy Production & Space Requirements:**
- Photovoltaics
 - Solar Water Heating for Domestic Use
 - Solar Water Heating for Space Heating
 - Solar Air Heating
- Understanding the Path of the Sun**
- Finding True South
 - Azimuth and Altitude
 - Shading and the Solar Window
 - Using the Solar Pathfinder
- 12:00 PM Lunch**
- 1:00 PM Measuring the Solar Resource**
- Insolation and Tilt
 - NREL Data
 - Web tools and Solar Assistant software
- Locating Solar Installers
Pathways for Training and Certification**
- 2:00 PM Economic Assessment**
- Incorporating Solar in TREAT/REM Analysis
 - Cost & Benefit Analysis
 - Ballpark Costs
 - Financial Incentives
 - Pennsylvania
 - Federal Solar Investment Tax Credit
 - Spreadsheet Tools
- 3:30 Field Practice: Using the Solar Pathfinder**
Sample Survey Forms
- 5:00 PM Adjourn**