

# The Whys of On-Site Facility Power

NAEMI Conference  
Albuquerque

# PV Power works for all types of electrical uses.

- Economical
- Environmental
- Educational
- Efficient
- Effective
- Evolutionary

The six E's













# Yearly Performance

- DC rating at installation 10 kW
- 2004 Production 18,000 kWhac
- Value of Generation
  - Energy \$900
  - Demand \$720
  - Environmental Benefits
    - » NOx 88.4 lbs (avoided)
    - » SO2 48.6 lbs (avoided)
    - » CO2 42,700 lbs (avoided)

# Educational Opportunities #1 for SIPI

- Develop design & performance measurements and calculations
- Install systems
- Perform routine maintenance
- Learn fabrication skills
- Interact with Renewables industry

# Educational Opportunities #1

- Develop design and performance measurements and calculations
  - Routine measurements of electrical outputs
  - Comparison with design specifications
  - Evaluation of off-axis operation, soiling, and operational temperatures

# Educational Opportunities #1

- Design and install systems



# Educational Opportunities #1

- Perform routine maintenance



# Educational Opportunities #1

- Learn fabrication skills



# Educational Opportunities #1

- Industry Interaction



# NPS had many #1s

- Leadership in resource management
- Interpretation
- Economics
- Preservation of natural environment

What are your #1s?