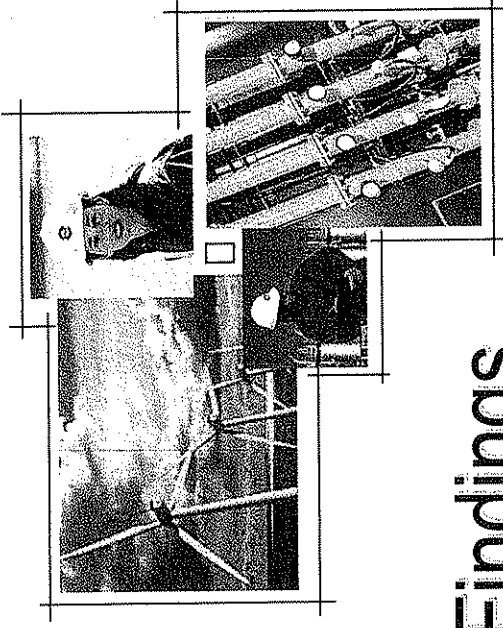


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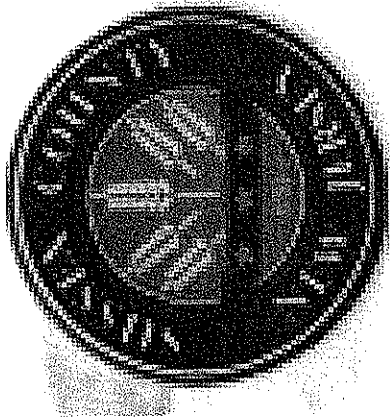


Solar Study Findings

Juvenile Detention

Center and Homestead

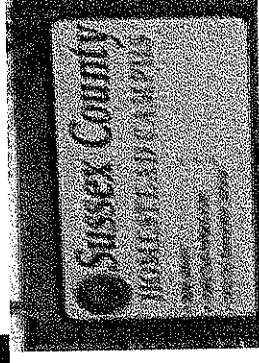
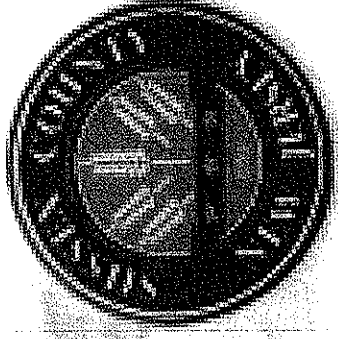
Nursing Home



January 2009

Presentation Overview

- Solar Energy Assessment
- Recommendations
- Environmental Impact
- Financial Results
- System Layout
- Next Steps



Solar Energy Assessment

- Site Annual Energy Costs (both facilities):
 - Electric: 1,065,865 kWh @ \$167,154
- Solar Screening to Consider Options for Different Size Photovoltaic Systems
 - 500 kW, 750 kW, 1000 kW, Larger
- Review Financing Options
 - Power Purchase Agreement
 - Direct Purchase
 - Other

Recommendations

- Selected 750 kW in two arrays based on facility load and layout
- Good site access and exposure for community
- \$129,860 in Solar Energy Production
- Estimated \$418,905 in Solar Renewable Energy Credit Value
 - (based on a conservative estimate of \$.50/kWh)
- 10.3 Year Simple Payback On System Installation
- 5.9% IRR

Environmental Impact

- System will offset 800 metric tons of CO2
- Reduce facility peak demand by 50%-70% during peak periods
- Offset the equivalent of 194 cars from the road
- System will produce enough power for approximately 1250 New Jersey homes
- Ground Mount Design will not require any ground clearing or deforestation

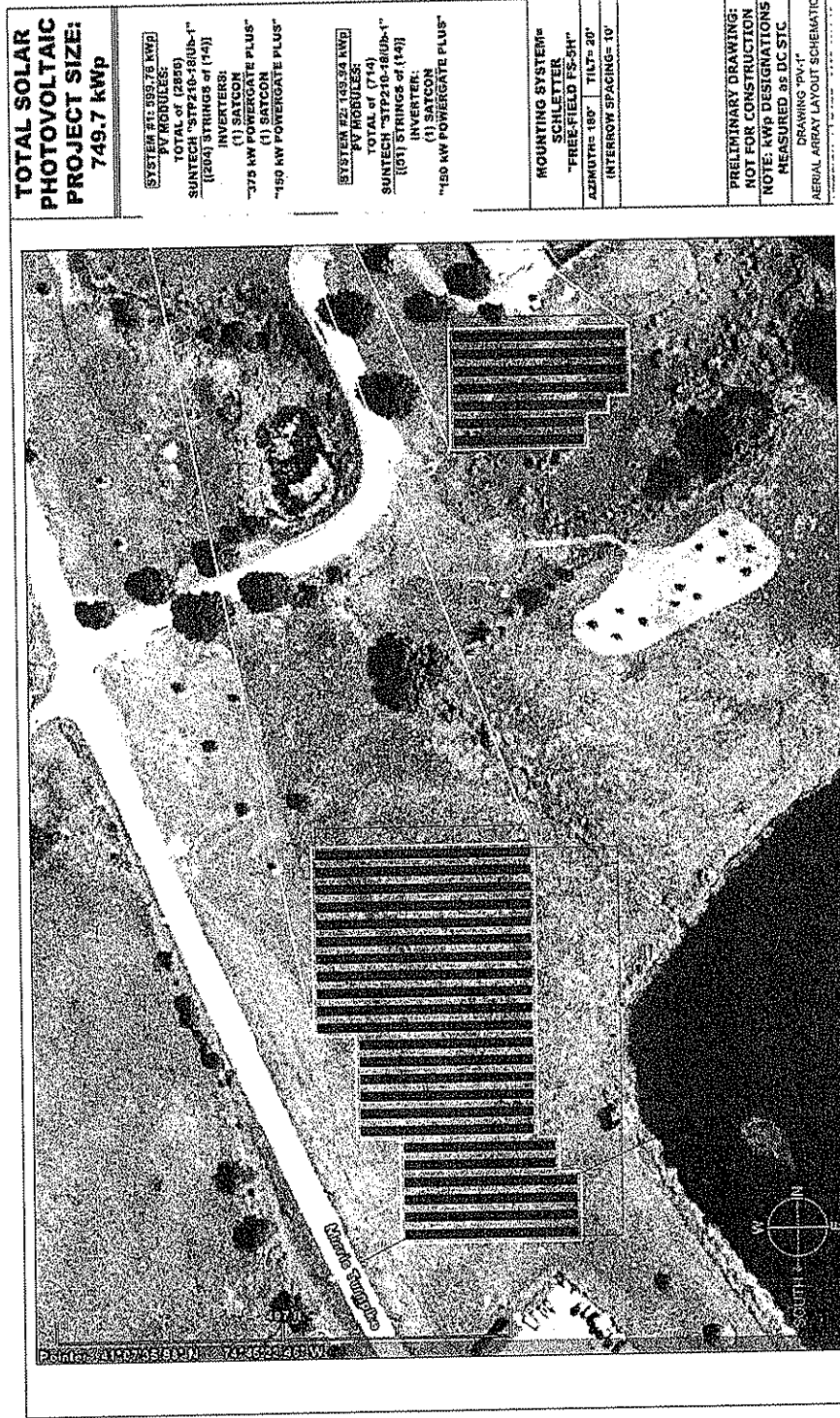
Financial Results

Sussex County 750 kW
 15 Year Life Cycle Cost Analysis with 15 year Cashflow

| | Inflation | Year 1 | Year 2 | Year 3 | Year 15 | Total |
|--|-------------|------------------------|-----------------------|-----------------------|-----------------------|-------------------------|
| Program Savings | | | | | | |
| Annual Energy Savings: | 4.0% | \$ 129,861 | \$ 135,055 | \$ 140,457 | \$ 184,832 | \$ 2,560,230 |
| Renewable Energy Credit Value: | 0.0% | \$ 418,905 | \$ 418,905 | \$ 418,905 | \$ 418,905 | \$ 6,283,575 |
| Total Solar Program Financial Benefit: | | \$ 548,766 | \$ 553,960 | \$ 559,362 | \$ 603,737 | \$ 8,843,805 |
| Federal Investment Tax Credit | | \$ - | \$ - | \$ - | \$ - | \$ - |
| Total Program Savings: | | \$ 548,766 | \$ 553,960 | \$ 559,362 | \$ 603,737 | \$ 8,843,805 |
| Program Costs | | | | | | |
| Project Cost: | | \$ 5,700,000 | | | | |
| Financed Amount: | | \$ 5,700,000 | | | | |
| Interest Rate: | 4.0% | | | | | |
| Finance Term: | 15 Years | | | | | |
| Annual Debt Payment: | (\$512,664) | | | | | |
| Financing | | | | | | |
| Annual Debt Service: | | \$ (\$512,664) | \$ (\$512,664) | \$ (\$512,664) | \$ (\$512,664) | \$ (100,000.00) |
| Annual Maintenance Costs: | | \$ - | \$ - | \$ - | \$ - | \$ - |
| Total Program Costs: | | \$ (\$512,664) | \$ (\$512,664) | \$ (\$512,664) | \$ (\$512,664) | \$ (\$7,789,964) |
| Annual Cash Flow: | | \$ 36,101 | \$ 41,296 | \$ 46,698 | \$ 91,073 | \$ 1,053,841 |
| Net Present Value of Cash Flow: 15 Year | | | | | | |
| | | \$743,343 | | | | |
| IRR Cash Flow: | | \$ (5,700,000) | \$ 548,766 | \$ 553,960 | \$ 559,362 | \$ 603,737 |
| IRR on Total Capital: | | 5.91% | | | | |
| Total CO2 Reduction/year | | 800 Metric Tons | | | | |



System Layout



TOTAL SOLAR PHOTOVOLTAIC PROJECT SIZE: 749.7 kWp

SYSTEM #1: 695.76 kWp
PV MODULES:
 TOTAL: 1608-1800-1"
 SUNTECH "STP210-1800-1"
 [(1608) STRINGS of (14)]
INVERTERS:
 (1) SATCON
 "375 kW POWERGATE PLUS"
 (1) SATCON
 "150 kW POWERGATE PLUS"

SYSTEM #2: 149.94 kWp
PV MODULES:
 TOTAL of (714)
 SUNTECH "STP210-1800-1"
 [(51) STRINGS of (14)]
INVERTER:
 (1) SATCON
 "150 kW POWERGATE PLUS"

MOUNTING SYSTEM:
 SCHLETTER
 "FREE-FIELD FS-3H"
 AZIMUTH: 180° TILT: 20°
 INTERROW SPACING: 10'

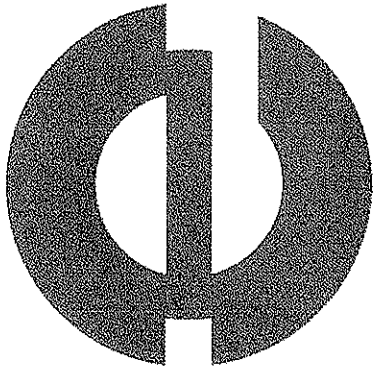
PRELIMINARY DRAWING. NOT FOR CONSTRUCTION
 NOTE: kWp DESIGNATIONS MEASURED @ DC STC.
 DRAWING DATE: 11/14/14
 AERIAL ARRAY LAYOUT SCHEMATIC

Next Steps

- Determine Financing Methodology and Prepare and Finalize Financing for Implementation
- Determine Contracting Methodology and Hire Consultants
- Perform Detailed Engineering for Solar System (if not design/build or PPA)
- Enroll to Participate in Available Energy Incentive Programs
 - Solar Renewable Energy Credit Program

Energy Audit & Solar Screening

Questions?



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Energy Solutions... Efficient Results