

[PV]²
Example
Electric Bill
&
Solar Installation
Proposal

**(Based on NIST's Net Zero Energy
Residential Test Facility in
Gaithersburg, MD)**

Example Residential Electricity Bill

Utility Company D

State Policy on Solar Generation: Net Metering

Simple (average) Electricity Price Structure Option

Monthly Bill Information

Total Charges = \$190.00; Consumption = 1,200 kWh

Simple Average Cost (includes fixed and variable) = \$0.158/kWh

Advanced Electricity Price Structure Option

12-month Electricity Use = 13,000 kWh

Fixed Monthly Charge = \$10

Total Variable Cost = \$0.151/kWh

Variable Charges (Per kWh)

Generation Charge

Summer = \$0.059; Winter = \$0.071; *Simple Average* = \$0.065

Distribution Charge

Summer = \$0.072; Winter = \$0.036; *Simple Average* = \$0.054

Transmission = \$0.012

Taxes, Surcharges, Fees, Credits, Others = \$0.02

Net Metering Excess Generation Rate = generation charge

Example Residential Solar Proposal

Company Information

Solar Installer A

Customer Information

NIST, 100 Bureau Drive

Gaithersburg, MD, 20899

Quoted System: Solar Panel System B

Specifications

32 - 320W panels (10,240 W)

19.6% rated efficiency

String inverters

Warranty Information

Panels = 25 years; Inverters = 15 years

Annual Panel Degradation Rate = 0.5%

System Production

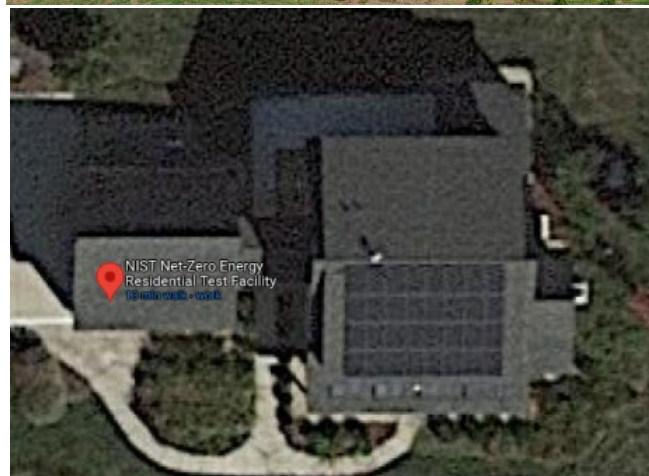
Year 1 Production Estimate = 13,000 kWh

Quoted Gross System Installation Costs and Purchase Options

Cash = \$30,720

No Interest, \$0 Down Payment, 1-Year Loan = \$31,744 with 12 payments of \$2,645.33

\$0 Down Payment, 12-year Loan at 5% = \$32,436 with \$300/month payments



Example Financial Incentives & SREC Info

Financial Incentives (Excluding Federal Tax Credit)

Maryland State Grant = \$1,000 per system

SREC Information

SREC Aggregator Company C

SREC Certification Market: Maryland

SREC Aggregator Options

Upfront Purchase

Rights to all SRECs = \$230/kW of rated capacity

Total = \$2,355

Market Purchase (current price)

Spot Price = \$60/MWh of production

Price Range last 12 months = \$57-80/MWh of production

3-year fixed contract

\$50/MWh of production