Example Calculation for Value of Generation

This is an example of how to calculate the average value in dollars of a grid tied generator, either PV or SW. The capacity factor was chosen for demonstration purposes only. The actual value should be obtained from the manufacturer of the system. The 5.5kW power rating was chosen to show a close number of kWh to the average monthly residential usage.

Average Residential Usage per Month: 1183.3 kWh

Assuming 5.5kW Generator:
Hours in Month: 730
Capacity Factor: 0.30

Total kWh = 5.5 kW × 730 hr × 0.30 = 1204.5 kWh in Month

Monthly Rate:

Highline Combined Demand and Energy Charge
January – December

First 750 kWh/month: $0.1145
All Additional kWh/month: $0.0782

Additional kWh = Total kWh – 750kWh

Additional kWh = 1204.5 kWh – 750 kWh = 454.5 kWh

750 kWh/month × $0.1145/kWh = $85.88/month
454.5 kWh/month × $0.0782/kWh = $35.54/month
$85.88+ $35.54 = $121.42 Total Dollars Generated Per Month