# BUSINESS CASE TREATMENT PLANT SOLAR PLANT

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| | | | | | | | | PA | | | |
| | | | | | | | | | | per | |
| Cost of 230 kW system | after $ 460,000 grant | $307,000 | | | | | | SREC value | $50 | MWH | |
| Output kwh per year | | 327,307 | | | | | | | | | |
| Value of energy produced per year at 0.0673c/kwh * 1.06 (line losses avoided) | | $24,578 | | Using replacement value 6.73 c/kwh | | | | | | | |
| Energy credits: Solar REC value/year sold into PA market at $50/ea | | $16,365 | | | | | | | | | |
| Demand value PJM capacity charge: This is the market fluctuating capacity charge from the Regions transmission grid | | $11,417 | | | | | | | | | |
| RMU Grid value per year - savings in demand stress of Rochelle's transmission/distribution grid | | $21,390 | | | | | | | | | |
| | | year 1 | year 2 | year 3 | year 4 | year 5 | year 6 | year 7 | year 8 | year 9 | year 10 |
| Value to RMU per year: | | $73,751 | $73,751 | $73,751 | $73,751 | $73,751 | $73,751 | $73,751 | $73,751 | $73,751 | $73,751 |
| NPV (3 %) | | $629,110 | | | | | | | | | |
| Payback in years | | 4.2 | | | | | | | | | |
| ROI | | 205% | | | | | | | | | |