



Solar Power

For Township of Verona

December 16, 2024



CONFIDENTIAL, NOT FOR DISTRIBUTION



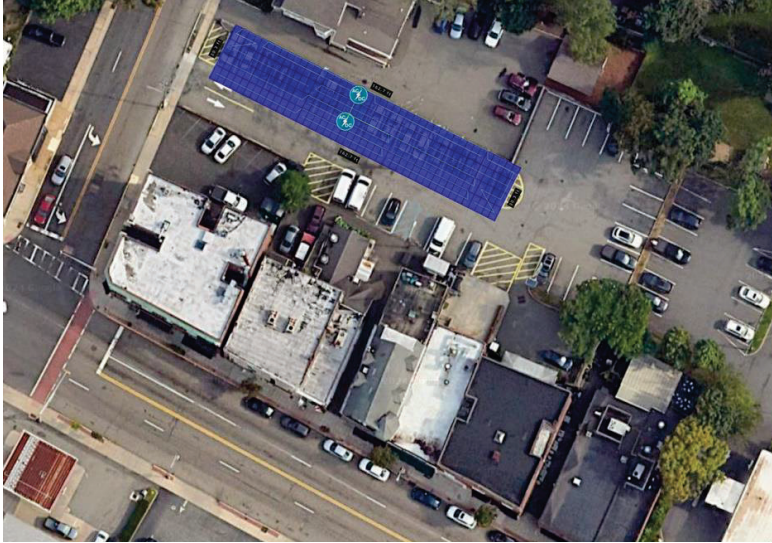
Lakeside Avenue Parking Lot



Municipal Parking Lot 1



Municipal Parking Lot 2

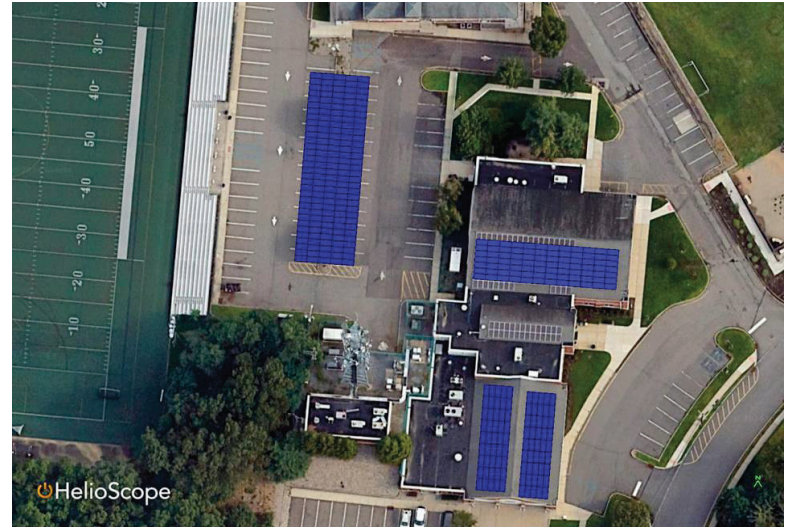


Waste Water Treatment Plant



** Existing solar panels will be removed and recycled or repurposed depending on condition*

White Rock & Bloomfield



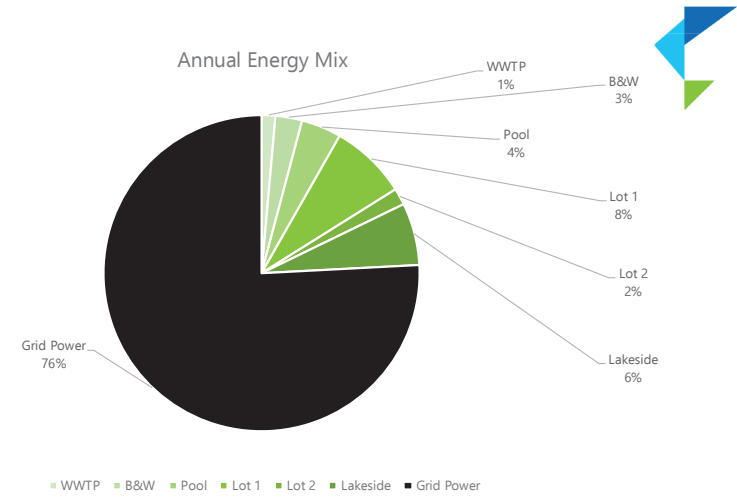
Community Pool



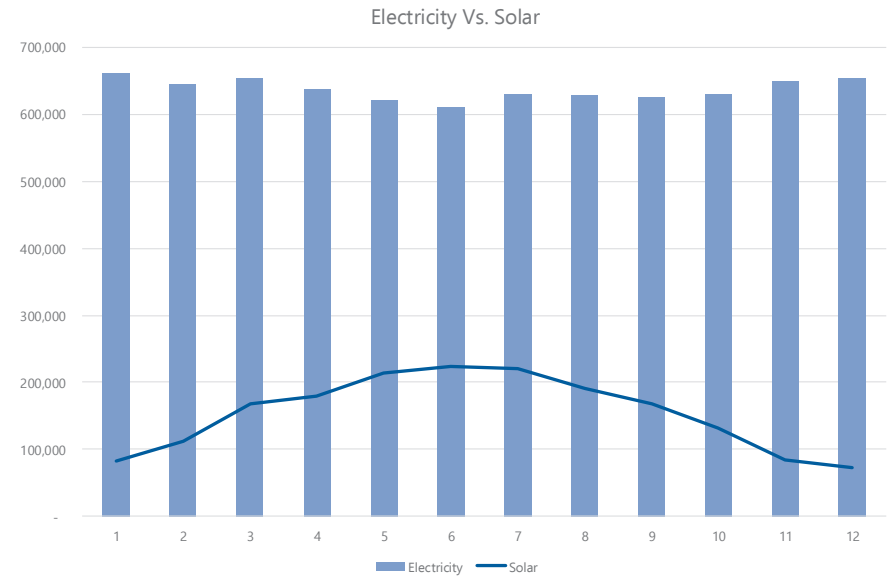
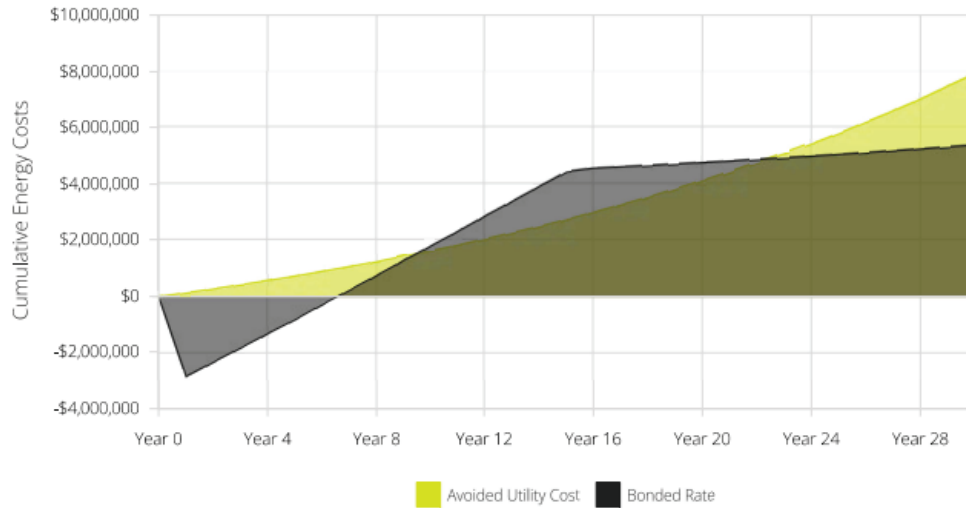
LCOE PV Generation	\$0.078 /kWh
Net Present Value	\$1,144,347
Total Payments	\$10,611,520
Total Incentives	\$6,734,218
Net Payments	\$3,877,302
Electric Bill Savings - Term	\$7,903,590
Upfront Payment	\$0
Loan Term	15 Years

COMBINED SOLAR PV RATING

Power Rating: 1,496,550 W-DC
 Power Rating: 1,140,000.0 W-AC



CUMULATIVE ENERGY COSTS BY PAYMENT OPTION



PSEG SUSI Program

Aggregated Net Metering Program

- Key to Project Success
- Can offset savings from multiple locations
- No Minimum System Requirements
- No Maximum System Size
- Current Status: Undergoing Revisions (Original Deadline Was June '24)
- Waste Water Treatment Plant Rooftop
- White Rock & Bloomfield Parking Lot and Rooftops

Total Solar Capacity: 1,496 kWdc (2,720 solar panels)

Total Solar Generation Potential: 1,790,487 kWh in Year 1



PSEG



Successful Projects

dGEN energy partners **MANTIS INNOVATION**

Case Study



Teak Decking

Project Info

Location: Sarasota, FL

Our Scope: Restorative Roof Coating & Rooftop Solar

System Size: 367 KW-DC

Carbon Offset: 214 metric tons of CO2 per year

Solar is currently under construction

BEFORE **AFTER**


"dGEN Energy Partners is a great supplier of solar services and will continue to be a long-term partner of Ameresco due to the outstanding job of their team."
-Jim, Project Manager, Ameresco

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Roof Coating and Solar

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Case Study



Art Center

Project Info

Location: Pasadena, CA

Our Scope: Turn-Key EPC

System Size: 480 KW-DC

Carbon Offset: 280.4 metric tons of CO2 per year

"Our team provided a tailored solution that met the school's energy needs while aligning with their sustainability goals. To make the project financially feasible, we structured a 20-year Power Purchase Agreement (PPA), allowing the institution to adopt solar without upfront capital investment. This agreement is projected to save the school approximately \$3.4 million in energy expenses over the next two decades. The project not only reduces the school's carbon footprint but also ensures long-term energy cost stability."


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-Jim, Project Manager, Ameresco

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Rooftop Solar

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Case Study



Sci-Arc

Project Info

Location: Los Angeles, CA

Our Scope: Full Roof replacement with TPO layover, Rooftop and carport canopies

System Size: 512,100 W-DC

Carbon Offset: 501.85 metric tons of CO2 per year

Solar is currently under construction

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-Jim, Project Manager, Ameresco

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Reroof TPO, Rooftop Solar Carport Canopies



Successful Projects

Sprague Street, Dedham, MA - 1.2MW

647 Summer Street, Boston - MA 2.7MW

Deptford Schools, NJ - 3MW

UPS 2020-2021 Portfolio – NY, MA, NJ, AZ, CA,IL, PR - 30MW w/ 12MWh Storage

Gersheimer Glass, NJ - 3MW

Teak Decking Systems, Sarasota, FL - 366KW

Art Center, Pasadena, CA - 368KW

Public Schools, Warren Woods, Mi - 656KW

Saline Middle School, Saline Mi - 540KW

Saline High School, Saline Mi - 960KW

Sika, Riverside, CA - 494 KW

Sika, Albuquerque, NM - (Ground Mounts) 352KW

Tanger Outlets, Fort Worth, TX - 2.02MW

Tanger Outlets, San Marcos, TX - 500KW

Tanger Outlets, Daytona, FL - 1.98MW

Tanger Outlets, Glendale, AZ - 1.97MW