



# PSE&G Solar-4-All Program Solar Projects

## PROJECT INFORMATION

### CONCORD DIVISION

Power & Infrastructure

### PROJECT LOCATION

Various, NJ

## ABOUT THE PROJECTS

Concord designed several large photovoltaic system projects. These projects involved the application of multiple arrays of solar panels and matching inverter installations, as well as grid interconnection engineering and design where applicable. All projects required preliminary design and engineering work including a solar screening analysis to determine best PV system selection, PV panel mounting methods, location of inverter equipment, and preliminary system cost analysis. Final design work included roof condition assessment and roof support system structural analysis for roof-mounted arrays, structural design for ground mounted arrays, detailed electrical design calculations, preparation design drawings and specifications, solar panel selections, combiner box sizing and selection, inverter sizing and selection, and interconnection design and coordination with the building utility service for behind the meter installations.



## PROJECT SUMMARY

Concord Engineering is providing code compliance review for PSE&G's Solar4All program. This program utilizes rooftops, solar farms, utility poles and landfill/brownfields for large-scale grid connected solar projects. Projects to date included:

▪ <b>Highland Park</b>	Highland Park, NJ	604.8 kW DC/540 kW AC & Battery
▪ <b>Cinnaminson Landfill</b>	Cinnaminson, NJ	12.996 MW DC
▪ <b>Pennsauken Brownfield</b>	Pennsauken, NJ	163 MW DC/12 MW AC
▪ <b>Caldwell Sewage Plant</b>	W Caldwell, NJ	902.34 kW DC/792 kW AC & Battery
▪ <b>Kinsley Landfill</b>	Sewell, NJ	11.181 MW DC/8.6 MW AC
▪ <b>Parklands Landfill</b>	Bordentown, NJ	10.135 MW DC
▪ <b>L&amp;D Landfill</b>	Mt. Holly, NJ	12.93 MW DC/10 MW AC

### **Adams Avenue** - Pleasantville, NJ

Concord Engineering was responsible for the design and installation of a 4 MW DC solar array for a net-metered 3 MW AC application in Pleasantville, Atlantic County, NJ. Work also included rework of the existing school electrical services for the middle and high school. The 4 MW array was divided equally to provide 1.5 MW AC power injected into the 480 volt service at each school.

### **Lower Township BOE Elementary Schools** - Lower Township, Cape May County, NJ

Concord provided engineering, design, and installation assistance for three PV systems totaling 1.2 MW DC for (3) net-metered AC applications at the Carl Mitnick, Maud Abrams, and Sandman elementary schools in Lower Township NJ.

### **Millville MUA** - Cumberland County, Millville, NJ

Concord Engineering provided engineering, design, and installation assistance of a 1.56 MW DC solar array for a net-metered AC application in Millville, NJ at the regional municipal waste water treatment plant. Work also included rework of two existing treatment plant building electrical services for connection of the new solar distribution to the existing metered services at the MUA plant.

### **Reeves Station Road** - Medford, NJ

Concord Engineering provided engineering, design, and installation of two independent 6.6 MW DC solar arrays for direct export to the PJM grid. Each of the two solar arrays provide power to two 5.2 MW AC solar projects in Medford Township, Burlington County, NJ. Each 6.6 MW array provides power to a separate PSE&G 13.2 kV service feeder.