

photovoltaics

Photovoltaics (PV) is the production of electricity from sunlight. Even a small PV system can significantly reduce pollution and the consumption of natural resources created by the generation of electric power. Faridy Veisz Fraytak, P.C. (FVF) offers full photovoltaic design services to our clients. Our in-house roofing consultants can evaluate your existing roofs and determine suitability for the installation of a photovoltaic (PV) system.

Site Survey/Roof Evaluation

Every PV project begins with a site and roof evaluation to determine factors such as solar orientation, roof warranties, useful life remaining in the roof system, usable roof area, location of the building's electrical service, and more.

Photovoltaic Project Simple Payback Worksheet

FVF has developed a simple payback worksheet which can quickly determine the feasibility of a PV installation and the expected payback for your district. This analysis includes expected total project cost and expected offsets such as Solar Renewable Energy Credits (SREC's), utility bill reduction via power sold back to the utility, and Debt Service Aid, if applicable. Under certain circumstances, a PV installation can result in a positive cash flow to the district after a certain period of time. **FVF can prepare a simplified payback worksheet for your district at no cost.**

CORE (Customer On-Site Renewable Energy) Rebates

FVF has recently prepared and submitted 17 CORE Rebate applications to the New Jersey Board of Public Utilities (NJBPU). **Our clients now have a combined total of more than \$4.7 million in CORE Rebates either already approved, or on the committed queue list.**

FVF Clients Who Have Received CORE Rebate Commitments from the NJBPU:

Greater Egg Harbor Regional High School District
Upper Freehold Regional High School District

FVF Clients in the Committed CORE Rebate Queue (Pending Notification from NJBPU):

Chesterfield Township BOE
Clearview Regional High School District
Galloway Township BOE
Hamilton Township BOE (Atlantic County)
Holland Township BOE
Mainland Regional High School District
Northern Burlington Regional High School District
Rahway City BOE
Shamong Township BOE



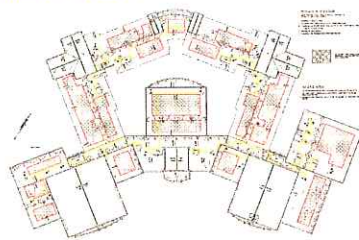
FVF can assist your school district with the evaluations necessary to determine the feasibility of a PV system for your school facilities.

Greater Egg Harbor Regional High School District Absegami High School



System Size/Capacity:	396 kw
System Roof Area:	56,600 SF
Total Anticipated Project Cost:	\$3,320,000
CORE Rebate Commitment from NJBPU:	\$966,000
Anticipated Simple Payback:	1.8 years

Upper Freehold Regional School District New Middle School



System Size/Capacity:	64 kw
System Roof Area:	9,100 SF
Total Anticipated Project Cost:	\$576,600
CORE Rebate Commitment from NJBPU:	\$195,660

PV System Facts

\$50 - \$60 per SF
average system cost

8 - 9 watts/SF average
flat system roof output dependent upon module efficiency & configuration

35 + years average
system life with a 25 year panel warranty, noticeable system wear may start approximately 15 years after installation

1,050 average
solar hours in New Jersey

- A PV system installation on an existing building is an NJDOE eligible project and Debt Service Aid is available, if debt is incurred to pay for the project

- The area of the roof suitable for a PV installation may vary widely

FVF has partnered with **Advanced Solar Products, Inc. (ASP)**, a leading industry expert, to advise us on PV system design issues. Advanced Solar Products is the largest supplier and installer of PV systems in the Mid-Atlantic region.



www.fvfpc.com

1515 Lower Ferry Road, P.O. Box 7371, Trenton, NJ 08628 Tel: 609.883.7101
Oaks Professional Building, Suite 300, 140 Whitaker Ave, Mont Clare, PA 19453
630 Churchman's Road - Suite 107, Newark - Delaware 19702

FVF
EST 1978 architects | planners
Faridy Veisz Fraytak, P.C.