

# Solar Case Study

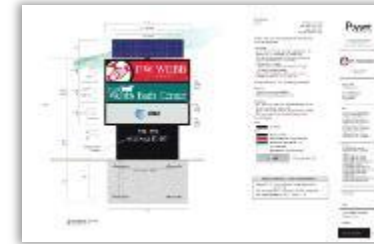


## Main Entrance Signage – FW Webb

WATERFORD, CT United States. Multi-Tenant Facility

### Project:

The FW Webb project included the design, engineering & fabrication, of a fully illuminated double sided exterior solar sign. This project posed challenges, we needed to maintain a cost effective option to light the sign as well as maintaining the aesthetic component and reasonable retail lighting output. The site location of the sign was located approximately 600 ft. from the facility, across a major thoroughfare. The underground trenching concerns & power variances were in question. This was the primary driving force to purchase this sign. The added benefit here was implementing a sustainability initiative. FW Webb currently had no plan in place. Upon review, it didn't take much to convince FW Webb of the benefits of moving forward with our solution.



### Our Work:

PVI Solar was able to provide the required services to design, engineer and execute a comprehensive solar sign design. We were able to implement and satisfy the owner's critical requirements, the aesthetic component and acceptable retail lighting output. Starting in July of 2010, JM Coull Inc, on behalf of the principal owner FW Webb commissioned PVI Solar was to present a detailed solution to their signage issues. Two weeks later, the package was presented and accepted by the FW Webb, and the local Municipality.

### Project Time Frame

2010: 8 weeks - Survey site and develop sign recommendations. Design, Engineer, Fabricate and ship a solar sign.

2011: Final Installation and completion of project March 2011.

# Project Costs / Payback



## Capital & Installation Costs

	# of Signs:	Fluorescent	PVI Solar
Capital Costs (Sign Cabinet & Solar)		1	1
Installation Costs (Trenching, Sign Cabinet & Solar Components)		\$ 12,560	\$ 19,600
(This Includes permits, engineering & all other associated costs)		\$ 10,400	\$ 4100
		<b>\$ 22,960</b>	<b>\$ 23,700</b>

## Operating & Maintenance Costs

Total 10 yr. Electric Cost: (\$.12 / kwh w/ 7% annual increase)		\$ 5,250	\$ 0
Total 10 yr. Maintenance Cost: (Est. Service Schedule: Fluorescent: 2 yrs. / PVI: 5 yrs.)		\$ 3,000	\$ 1,150
		<b>\$ 8,250</b>	<b>\$ 1,150</b>

## Investment Tax Credits / MACRS Depreciation

Federal 30 % Solar: (Solar Kit & Kit Installation)		\$ 0	- \$ 3,098
State TBD % Solar: (Solar Kit & Kit Installation)		\$ 0	- \$ 0
MACRS-5 yr. Accelerated Depreciation: (Solar Kit)		\$ 0	- \$ 1,511
		<b>- \$ 0</b>	<b>- \$ 4,609</b>

## Total Cost Of Ownership

\$ 31,210

\$ 20,241

## Payback Years

Within 1 Year