

## Solar Photovoltaic (PV) Electrical Power System



solar energy  
solutions for business

### PPFD WHITBY, ONTARIO

#### 500 KW ROOF-MOUNT – PV (PHOTOVOLTAIC SYSTEM)

Global Point Energy is pleased to release the engineering data developed for the PPFD in Whitby, Ontario. After careful consideration of initial installation cost and efficient solar practices we have engineered a system to provide an expected generation of \$460,000 per year.

GPE designs and engineers an oversized DC system that maximises the 500 KW AC outputs of our Satcon inverters. This takes into effect the nominal losses from both DC and AC line losses, snow coverage and the STC rating of our solar panels. Our racking design allows for maximum airflow that optimises panel efficiencies by keeping them cool. GPE's turnkey approach took care of all Grid Connection costs, Hydro, LDC, ESA approvals and application fees. The system is operating well and we have received excellent response from the community.

PRODUCTION: 1980 Heliene 300W modules  
500 SATCON  
Polar Racking System  
20 Year OPA contract @ 63 cents per KW

For more information, call **705.741.2300**  
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F20 - 500KW - CASE STUDY - PPFD

Completed, the system houses  
1980 Heliene 300W panels  
shading the rooftop with 90,000  
sq ft of collector area

Total Number of Cars Off The  
Road: **60 per year**

Total Number of Trees Planted:  
**144 acres over 20 years**

