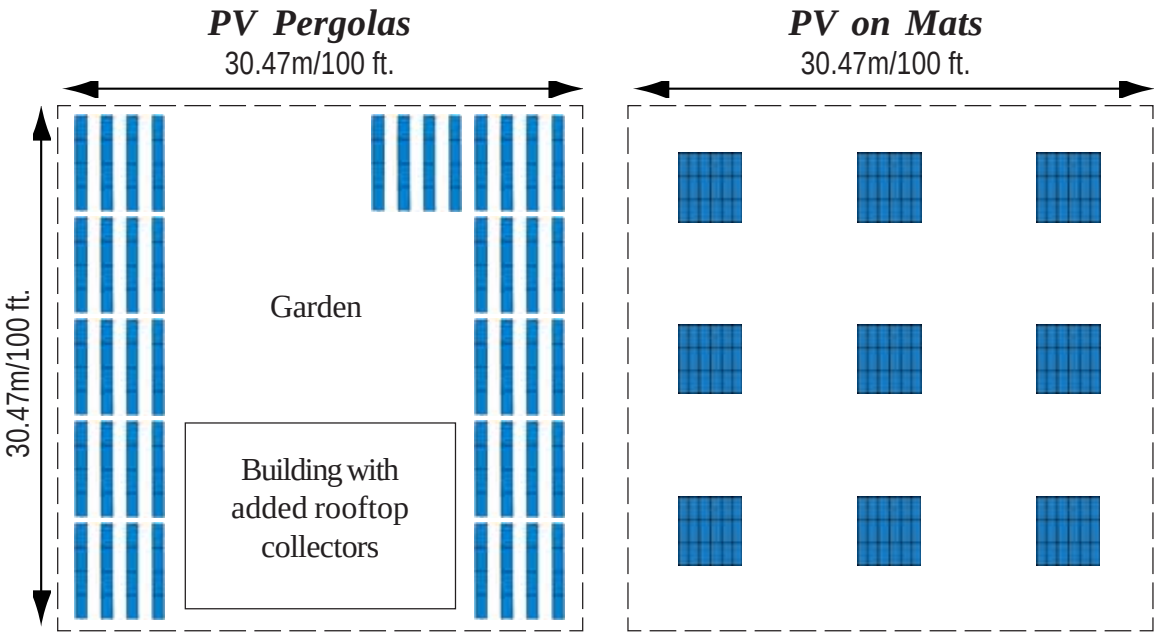
PVO Pergolas

PVO Pergola Site Planning



11 four-row PVOLT Pergolas
(1-axis horiz. tracking)
(16 PVs each, 176 PVs total)
1311 kWhrs/June day (solar rad.)

9 two-axis (az-el) mast trackers
(18 PVs each, 162 PVs total)
1237 kWhrs/June day (solar rad.)

Several PVO Pergola arbors arranged in a garden or on a terrace roof can harvest more summer solar energy per given site area than several PV 2-axis trackers on masts, mainly because more PV panels are possible. To illustrate how PV can help during the summer peak, two possibilities on a 100ft/30.47m square site in Madison, Wisconsin with $10ft^2/0.93m^2$ PV panels were compared for a June day *solar radiation* (per NREL-463-5607, 4/94). The 11 PVOLT Pergolas can collect more summer solar energy with pergola-to-pergola overhead wiring, and allow more land area for a building, garden, and additional solar collectors.

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Funded in part by the Wisconsin Focus on Energy Program