



PowerGuard(R) Advanced
Manufacturing: PVMaT Phase
II Technical Progress Report

National Renewable Energy
Laboratory (NREL)

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Created by National Renewable Energy
Laboratory (NREL)



This project introduced incremental improvements to PowerGuard system components and manufacturing processes to significantly reduce the costs of a PowerGuard system. The improvement resulted in a lower cost, higher impact PV product. During Phase II, these accomplishments have resulted in: A production rate of greater than 400 PowerGuard tiles per shift (20 MW/year) manufacturing capacity 57% cost reduction for PowerGuard tile UL listing for four additional PowerGuard tiles configurations Improved quality of finished goods due to improved tooling and processes in manufacturing, simultaneously improving throughput and lowering cost of \$3.80/Wp for large systems. In Phase III of this contract, PowerLight will continue efforts to improve the manufacturing processes for PowerGuard. Specific performance objectives during phase III are as follows: Demonstrate system cost reduction from \$3.80/Wp to \$3.05/Wp for large systems Establish or assess the performance of dedicated PowerGuard PV module plant capacity of 2 MW per year Complete wind tunnel testing of all design refinements Produce an installation manual and training program for installing PowerGuard systems Establish performance of manufacturing modifications based on assessment of commercial systems which incorporate the new features and processes and Finalize UL, International Conference of Building Officials (ICBO), and international listings of PowerGuard improvements. These are expected to result in a lower cost, higher impact PV product, as sought by this program.

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