Bifacial Solar Kiln Conversion: 5-Year Payback for Lumber Dry Kilns | Feasibility Analysis

Global Energy LLC

[TEL] 608-238-6001

[Email] greg@globalmicroturbine.com

https://globalmicroturbine.com/bifacial-solar-kiln-conversion-analysis-grid-connect-by-globalmicroturbine.html

This analysis sizes a battery-free, meter-reversing bifacial solar array for two container dry kilns (5,000 BF and 15,000 BF), down to the pallet and the dollar. Verdict: roughly a 5-year payback, plus a pricing error in the panel listing that the numbers caught along the way.

This webpage QR code

PDF Version of the webpage (maximum 10 pages)

Copyright 8/1/2026 Global Energy LLC

From Grid to Sun: Converting a Lumber Dry Kiln to Direct Grid-Tie Bifacial Solar

A technical feasibility analysis for powering 5,000 BF and 15,000 BF container dry kilns with a battery-free, meter-reversing bifacial PV array.

No Battery — Direct Grid-Tie | Bifacial 595W Panels | Fixed 45° Tilt | 4 Peak-Sun-Hours/Day Avg

Copyright 8/1/2026 Global Energy LLC

From Grid to Sun: Converting a Lumber Dry Kiln to Direct Grid-Tie Bifacial Solar

A technical feasibility analysis for powering 5,000 BF and 15,000 BF container dry kilns with a battery-free, meter-reversing bifacial PV array.

No Battery — Direct Grid-Tie | Bifacial 595W Panels | Fixed 45° Tilt | 4 Peak-Sun-Hours/Day Avg