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608-238-6001 [TEL]

greg@globalmicroturbine.com [Email]



This webpage QR code

Global Energy LLC

Lumber Kiln | Firewood Kiln | Container Kiln |
Thermal Energy Storage TES

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Global Energy develops new technology in the renewable energy industry, lumber kiln, and firewood kiln. Container Kiln Builders Guide.

PDF Version of the webpage (first pages)

<https://globalmicroturbine.com/index.html>

BF Container Lumber Dry Kiln Plans 5,000

The 5,000 BF container kiln consists of one 40 foot high-cube aluminum shipping container. The first kiln built in 1992 was a 15,000 BF size and worked great.

This first container kiln had several innovations, including the use of a direct fired heat pipe (Furnace Type Dry Kiln) and a Conifer sawdust burner.

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Global Energy Container Kiln Plans

Global Energy designed and developed the container kiln back in 1992. The purpose is to give access to portable sawmill owners, furniture makers, and small business the value added profit of dry kiln lumber and quality hardwoods.

We are now offering plans for our epic container dry kiln system, which we developed in 1992. The system has been copied by lots of groups over the past 30 years (validating its profitability and access to the small commercial sawmill proprietors).

Container Kiln Builders Guide | Firewood Kiln | Conventional Kiln | Vacuum Kiln | DH Kiln | Heat Treating

Explore the innovative use of shipping containers as kilns for drying lumber and firewood in our comprehensive guide. Global Energy invented the Container Kiln Concept in 1992. Covering various kiln types like conventional, firewood, dehumidification, vacuum, and wood products dry kilns, this guide delves into design considerations, retrofitting processes, and heating options, including eco-friendly biomass heating systems. Understand operational guidelines, economic analysis, and environmental impacts to make informed decisions for efficient and sustainable wood drying solutions.

Complete lumber kiln and firewood and heat treating plans with parts list:

Global Energy 5,000 BF Container Kiln
Global Energy 15,000 BF Container Kiln

Note: in 1992, the first 15,000 BF Lumber Container Dry Kiln was assembled in Madison, Wisconsin by Global Energy, using a heat pipe (Furnace Type) heating system and a wood-fired Conifer Biomass Burner custom built.

CAD Drawings:

We include 40 ft. hi cube container CAD drawings so you can customize your kiln experience

Exploring Lumber Dry Kiln Technologies: A Comprehensive Comparison

The process of drying lumber is critical in woodworking and lumber production, significantly affecting the quality, stability, and usability of the wood. As technology advances, various lumber dry kiln technologies have been developed, each with its unique advantages and disadvantages. This article provides a comprehensive comparison of the main types of lumber dry kiln technologies: conventional kilns, vacuum kilns, high-temperature kilns, and dehumidification (DH) kilns, among others.

TES or Thermal Batteries may have a USA 30-40 Percent Tax Credit or \$45 per kWh

A Salgenx 3,000 kWh Energy Battery, while used as a TES (Thermal Energy Storage) at 60 C could have a potential up to 24,000 liters of saltwater thermal capacity or 1,635.9 kWh. Now multiply that with the proposed \$45/kWh = \$73,616 tax credit. The Electrical storage tax credit is \$35/kWh x 3,000 kWh = \$105,000.
