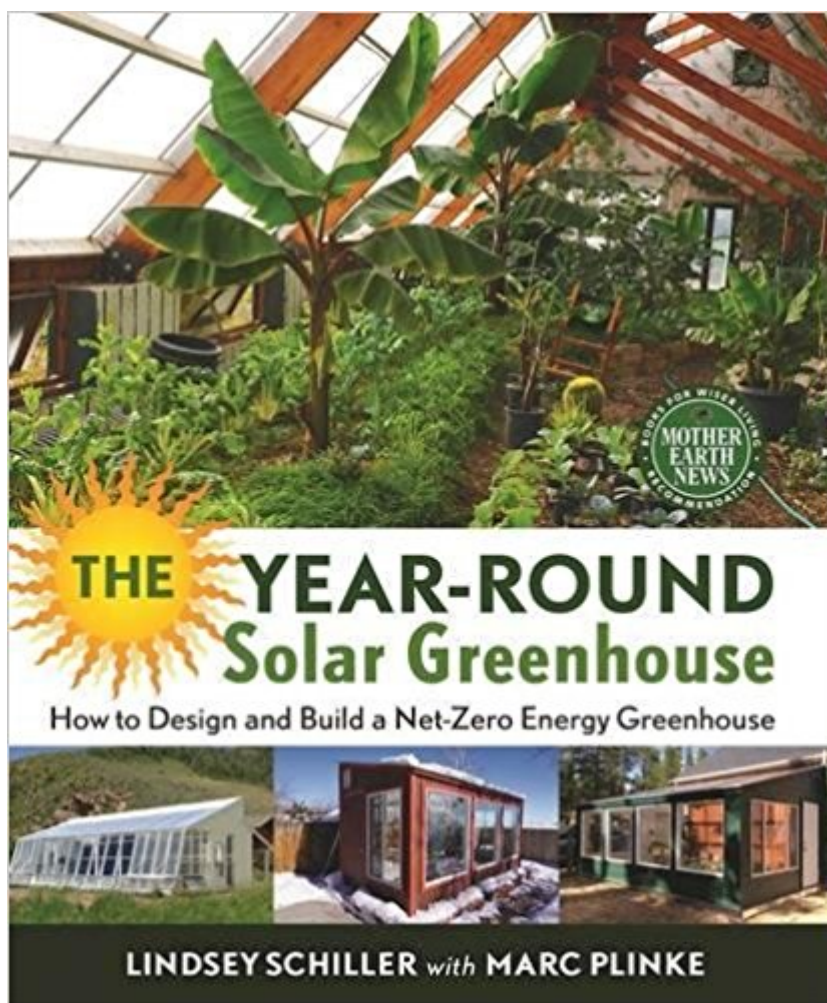


The book was found

The Year-Round Solar Greenhouse: How To Design And Build A Net-Zero Energy Greenhouse



Synopsis

Fresh, local nutrient-dense fruits vegetables are hard to find in winter in cold climates. Growing warm-weather crops like tomatoes, bananas, avocados, and other perennials is nearly impossible using conventional structures. The solution for millions of backyard and small-scale commercial growers is self-heating solar greenhouses. The Year-round Solar Greenhouse is the one-stop guide to designing and building greenhouses that harness and store energy from the sun to create naturally heated, lush growing environments even in the depths of winter, covering principles of solar greenhouse design and siting, glazing material properties and selection, controlling heat loss, ventilation, and construction methods. Additionally, an in-depth section covers sustainable ways of heating the greenhouse without fossil fuels, including using thermal mass and storing heat underground with a ground to air heat exchanger. Variations include attached solar greenhouses, earth sheltered greenhouses, plus integrating hydroponics and aquaponics. More than a dozen case studies from across North America provide inspiration and demonstrate specific challenges and solutions for growing year-round in any climate. Grow your own food, anytime, anywhere using the power of the sun! Lindsey Schiller is a greenhouse designer and with co-author Marc Plinke, co-owner of Ceres Greenhouse Solutions. Lindsey has designed, toured and helped build hundreds of energy-efficient greenhouses spanning small residential structures to acre-size commercial facilities. Marc Plinke is an inventor-innovator with a PhD in engineering who has focused his engineering mindset on building innovative, energy-efficient and smarter greenhouses, with the intention of enabling people to grow their own food sustainably and year-round.

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Customer Reviews

Fresh, local nutrient-dense fruits vegetables are hard to find in winter in cold climates. Growing warm-weather crops like tomatoes, bananas, avocados, and other perennials is nearly impossible using conventional structures. The solution for millions of backyard and small-scale commercial growers is self-heating solar greenhouses. The Year-round Solar Greenhouse is the one-stop guide to designing and building greenhouses that harness and store energy from the sun to create naturally heated, lush growing environments even in the depths of winter, covering principles of solar greenhouse design and siting, glazing material properties and selection, controlling heat loss, ventilation, and construction methods. Additionally, an in-depth section covers sustainable ways of heating the greenhouse without fossil fuels, including using thermal mass and storing heat underground with a ground to air heat exchanger. Variations include attached solar greenhouses, earth sheltered greenhouses, plus integrating hydroponics and aquaponics. More than a dozen case studies from across North America provide inspiration and demonstrate specific challenges and solutions for growing year-round in any climate. Grow your own food, anytime, anywhere using the power of the sun!

Lindsey Schiller studied conventional greenhouse design and management at the University of Arizona's Controlled Environmental Agriculture Center before delving deeply into solar greenhouse design. With co-author Marc Plinke, she founded Ceres Greenhouse Solutions to research, design and build energy-efficient year-round greenhouses. Lindsey has designed, toured and helped build hundreds of energy-efficient greenhouses spanning small residential structures to acre-size commercial facilities. Marc Plinke, an inventor-innovator with a PhD in engineering, started his career as a chemical and process engineer working for Gore Technologies. He later retrofitted his family's 1950's Boulder, CO ranch home into a net-zero-energy home, spurring a second career in green building design. Marc has spent the past decade applying his expertise in green building and engineering mindset to building better greenhouses, with the intention of enabling people to grow their own food sustainably, year-round.

I loved the book. Lookig forward to my first solar green house!

Very good resource for all solar greenhouse needs. Very easy read.

I've read many books on hydroponics and aquaponics, however this book touches on necessities that need to be addressed before you get to the stage of building the actual grow beds, watering systems, etc.. Highly recommended for anyone intending to use a greenhouse.

The author has lots of experience and cites very good references. It is a practical book with lots of good ideas.

Great book.

Useful.

Very informative with great information to help with my solar house design. Well written.

Exactly as described!

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