



Passive solar greenhouse kits

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Our goal is to bring you the best self-contained, off-the-grid passive solar greenhouse that would only require seeds, soil, sun and water to grow a wide variety of plants. We built our first SunCatcher greenhouse in 2001, and over the past fifteen years we have continued to iterate and improve our design so that customers like you can grow plants the way they want, in whatever climate they want. We do this by ignoring conventional (wrong) greenhouse wisdom, and focusing on the basic needs of plants: heat, sunlight, humidity, CO2 and protection from extreme weather.

A conventional greenhouse will be producing more headaches than food after 10, 15 or 20 years. Your SunCatcher will be growing the same beautiful vegetables in 40, 50, 60 years, no grid power or fossil fuels required.

We encourage potential buyers to consider a SunCatcher and Eco Panels "Kit" option. We deliver cutting-edge shell building materials direct to your door, and can work with a local contractor on construction and detailing. Eco Panels are at the cutting edge of building materials manufacturing and far exceed the properties of a typical building material; we love this partnership and think you will too!

Our "Kit" design removes much of the guesswork and back and forth with a contractor, guaranteeing a high quality product in shorter time and lower cost. Learn more with our brochure and case study, and reach out for a quote.

We also sell blueprints directly for a "stick-built" 12'x24' and 16'x32' design. This could work better for a DIY builder committed to the project, or someone who shipping and assembling Eco Panels from Western North Carolina does not make sense geographically. Note the design is provided "as is"; you will need to find your own architect for any modifications and our capacity for pro bono support in making changes is very limited.

We are open to discuss custom projects for commercial clients. We have found that it is rarely financially feasible for us to collaborate closely with individuals on custom projects with us and that our design principles do not scale well beyond a certain square footage in a single building. If you think it's worth discussing, please contact us.

Andrew Harrell, Greenhouse & Landscape Designer, is applying passive solar principles to draft SunCatcher construction plans. Harrell plays a vital role in serving as a CAD (computer-aided design) specialist to document and implement the designs for the full-size greenhouses. Beyond SunCatcher, Andrew is a landscape architect with a background in stormwater engineering focused on edible landscaping, sustainable landscapes, and computational design. He is also a hobby gardener on his small urban plot in Durham, North Carolina.



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He can help you find the optimal location for your greenhouse, connect you with the best size for your needs, generate custom full-size designs, and plan landscape recommendations around your SunCatcher and property.

Parker Grissom, Sales Associate, brings a wealth of experience helping customers bring sustainable solutions to their every day problems. Whether with solar energy, personal health goals, or small scale passive solar, Parker is the man for the job. We're thrilled to welcome him to the SunCatcher team as we launch our line of personal, small footprint products!

Joshua Carroll, Director of Strategy and Digital, has a decade of experience envisioning, building, and managing products and working with data for companies like Microsoft and Starbucks. Joshua has been involved in various roles with SunCatcher for the last fifteen years. His current focus is bringing the SunCatcher strategy to market from his home in Washington, DC, as well as running all things digital at SunCatcher. In his free time, he enjoys electronic music, plays with fire, and organizes transformational festivals, arts and activist gatherings.

The spherical surface of the Growing Dome(R) geodesic passive solar greenhouse allows for even heat gain as it tracks the sun throughout the day. A rectangular greenhouse has a large flat south-facing area allowing a larger amount of sunlight to come in at mid-day. But in the early morning and late afternoon the light input is negligible. Plants, like people, love early morning sun! It's like a fresh cup of coffee.

The Growing Dome geodesic shape has the added benefit of withstanding extreme weather like wind, snow and hail. Flat panels on a rectangular greenhouse are very susceptible to wind and hail damage.

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