



New Modular Scalable Indoor Vertical Farm Design

Green Sense Farms has been an early adopter and pioneer when it comes to indoor vertical farming. We built our first 20,000 sq. ft. indoor vertical farm in 2012 in Portage, IN. Controlled Environment Agriculture (CEA) has changed greatly since that first farm and so has our company. We started our



journey focused on operating our indoor vegetable farm, selling lettuce, baby greens, herbs and microgreens to grocery stores and produce companies in IN, IL and MI. Since that time, we have leveraged our operating experience and evolved the company to provide contract research and farm design & build services on a global basis.

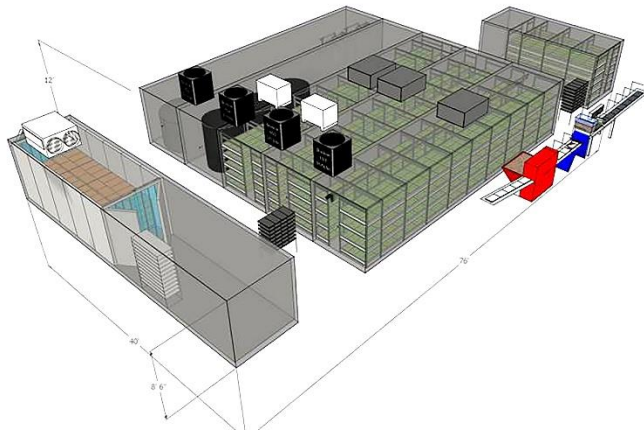
One of our recent innovations is the development of a modular scalable growing system using our proven grow technology. We found that our standard 20,000 sq. ft. farm can be cost prohibitive in many parts of the world. We have also seen that many vertical farm companies “start big and grow small” making right-sizing a farm the key to being profitable.

In addition to our 20,000 sq. ft. farm we now offer a modular scalable farm system that can “start small and grow big” to meet increased demand. After spending a year studying container farms to objectively understand their strengths and weakness, we came up with a better indoor grow design that includes:

- Touchless conveyance
- Improved IPM and automated sanitization
- Higher crop density and improved economics
- Can be operated with 2 employees plus a packing team
- Computer delivery of growing inputs and climate control with improved air circulation
- Can be housed in functionally obsolete industrial buildings with minimal tenant improvements.



Our modular scalable custom farms use shipping containers as a prefabricated low-cost structure to install the individual farm components. Components can be sold separately or as system and include:



- Seeding line
- Germ / Nursery Room
- Grow Room
- Packing / Cooler
- Equipment Room, with CO₂, fertigator, water treatment, water storage and recirculation, HVAC, data collection, sensors and automation controls.

It's an honor and privileged to be part of CEA and watch it evolve from an idea into an industry. For more information on contract research or design and build services contact:

Robert Colangelo, Founding Farmer
Green Sense Farms
Robert@greensensefarms.com