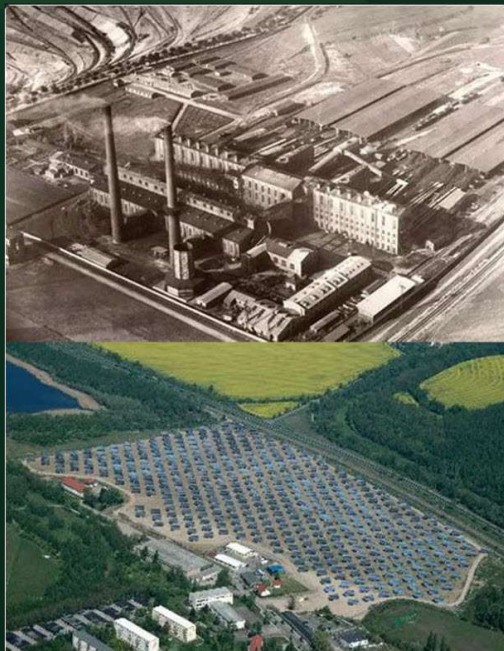




Brownfields to Greenfields

Greenfield Hydroponics • Reclaiming urban land for controlled-environment agriculture

Left: aerial before and after — a brownfield site returned to productive use.



What Is a Brownfield?



"A property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant."

— U.S. Brownfields Revitalization Act

- Not every vacant lot is a brownfield.
- Contamination drives cost and liability.
- Federal cleanup grants exist — growing need not wait.

COMMON EXAMPLES

- Abandoned gas stations
- Scrap yards
- Unsafely demolished structures
- Former industrial manufacturing
- Strip malls with dry cleaners
- Vacant rail and truck yards
- Former smelters and foundries
- Closed fuel storage depots

450,000+ brownfield sites nationwide — each one a candidate for clean, above-ground food production.

Case Study: From Steel to Soil



Bethlehem Steel — Bethlehem, PA

An 1,800-acre steelmaking complex sat idle and contaminated for decades. Its ore trestle is now an elevated public greenway — heavy-industrial land returned to people-facing use.



1,800

acres of former mill site

1995

last furnace shut down

2015

trestle reopened as greenway

Above-ground cultivation lets sites like this grow food years before soil remediation is complete.

Agriculture for the Future



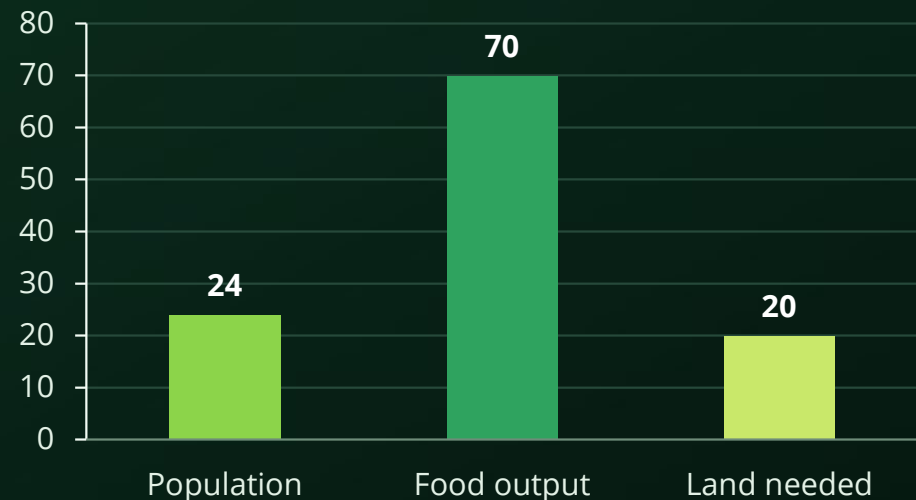
- Population: 7.8B today → 9.7B by 2050
- Food output must rise up to 70%
- Conventional practice needs 20% more land
- Climate extremes are cutting yields

The gap we close

More output on land already built on — no new acreage required.

Brownfields are already cleared, serviced and close to the people who need the food.

Required change by 2050 (%)



Reclaimed brownfields add growing capacity without converting another acre of wild or farm land.

Our Growing Systems



01

Grow Tower

- 6P7 / 6P10 / 6P15 sizes
- 42 / 60 / 90 plant holes
- Optional rack, pump, LED
- Runs indoors or outdoors



02

ZIP System

- Single or double-sided
- Green leafy vegetables
- Water supply + LED included
- Compact vertical footprint



03

NFT Channels

- Laminar nutrient flow
- High quality, short cycles
- Constant water + nutrients
- Continuous harvest cycles

04

Microgreens

- 3-1 through 7-3 formats
- 20-150 kg daily output
- Optional water tank
- Harvest in 7-14 days

Stacked racks under full-spectrum LED

Climate-controlled rooms run year-round, independent of weather and daylight hours.

Modular by design — systems combine to match site size, crop mix and available power.

Why Grow Above the Ground?



If the soil cannot be trusted, we take the crop off the soil — delivering safe, fresh produce in areas of food scarcity.

Raised Beds

Clean imported soil in contained frames, isolated from site contaminants.

Hydroponics & Aquaponics

Soil-free nutrient delivery in water — higher yield, far less land.

Vertical & Container Systems

Stacked growing area on hardstand, parking decks and rooftops.

Greenhouses

Controlled environment extends the season and shields crops from weather.

Food safety first: no root contact with contaminated ground, and no wait for remediation.

Tower Performance



3x

faster growth cycles

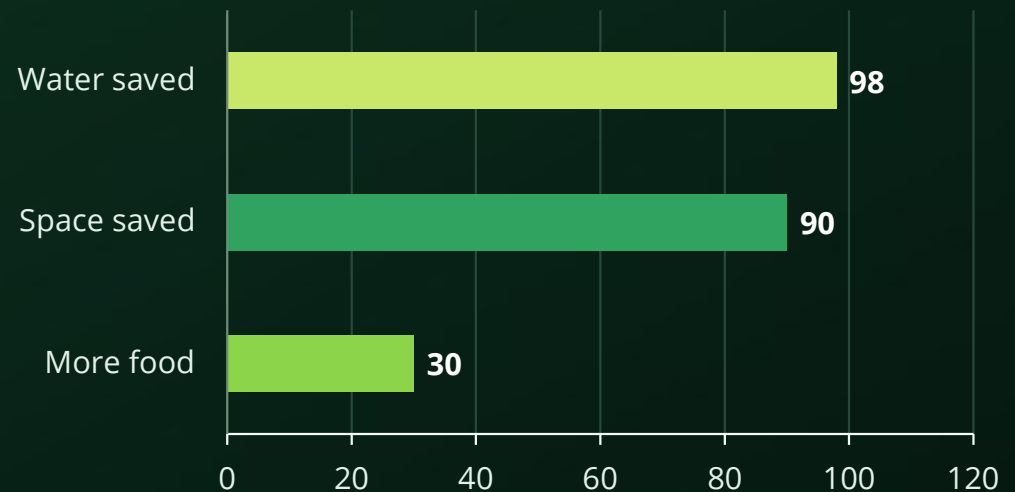
225 SF

footprint for a starter system

0

digging, weeding or watering

Gain vs traditional growing (%)

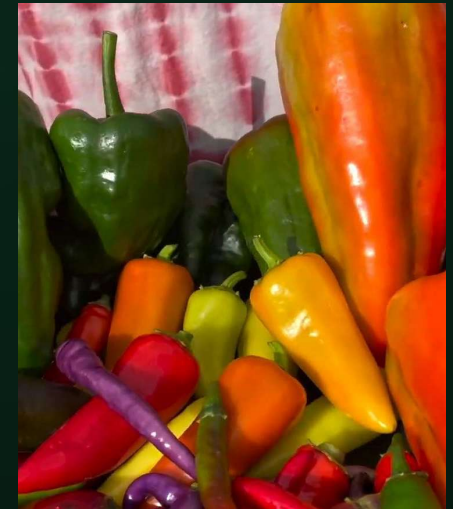


Needs only a clean water source, an electrical outlet and sunlight or grow lights — indoors or out.

What Can We Grow?



Vegetables	Herbs	Flowers
Lettuce & all leafy greens	Basil, all types	Edible: nasturtium, pansy
Kale, broccoli, cabbage	Cilantro & parsley	Calendula & violas
Beans, peas, okra	Mint & lemon balm	Marigolds & monarda
Cucumbers & zucchini	Oregano & marjoram	Dwarf sunflowers
Peppers & eggplant	Chives & garlic chives	Celosia, cosmos, phlox
Melons & strawberries	Lavender & chamomile	Snapdragon & statice



Representative selection — over 200 vegetable, herb and flower varieties are tower-compatible.

Water Independence



Atmospheric water generators make each site 100% independent of existing water infrastructure — water is produced where it is used.

Air-to-Water

Condenses potable water directly from humidity in the air — no mains connection, no well permit.

0 mains connections

Point-of-Use

Water is generated at the grow site, eliminating haulage, storage loss and distribution cost.

100% on-site supply

Decentralized

Each installation runs independently, so drought restrictions and main breaks never stop production.

Drought-resilient



Paired with 98% water savings, a tower site can operate on air and sunlight alone.



Turning Brownfields into Greenfields

Bring us a site. We will assess it, size the system, and start growing clean food on it — without waiting years for the soil.

Let's assess your site

Site assessment · system sizing · install & crew training

Contact

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