

SUSTAINABILITY WILL NOT SAVE US

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Climate Change is a Crisis Now

- World temperatures are rising
- Oceans are warming; ice caps are melting
- Lowlands around the world will be flooded
- There will be massive population migration
- Storms and weather events will be more severe and damaging
- Food production in the most fertile areas of the world will be at serious risk
- Millions will starve

Food Production is major contributor to Climate Change

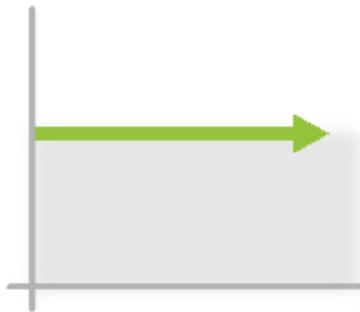
- Agriculture, forestry and other land use contributed $\frac{1}{4}$ of the total net anthropogenic emissions of greenhouse gases from '07 to '16
- Second largest greenhouse gas emitters (after energy)
- Source: UN Intergovernmental Panel on Climate Change (IPCC)

But the Food System Can Also Save Us

- Paul Hawken's Drawdown is the most comprehensive plan to reverse global warming
- It includes 100 specific strategies developed by experts and scientists across the globe that will specifically mitigate climate change
- Of the solutions: Food is at the core four of the top ten
 - What we eat
 - How we grow food
 - Food waste
 - Packaging

Need Proactive Strategy to Mitigate Climate Change

Sustainable



DO LEAST HARM

System functions at a steady state without depleting long term capacity to operate.

Resilient



BOUNCE BACK

System is able to recover its essential functions after a disturbance.

Regenerative



CREATE MULTIPLE GOODS

System is resilient and builds operational capacities over time. Positively impacts other systems.

Regenerative Agriculture

- A conservation and rehabilitative approach to food production and farming system
- It treats farming and food production as a whole ecosystem
- Practices include:
 - No till techniques
 - Crop rotation
 - Tarp coverage for weed control
 - Animal rotation
 - Mineral supplements
 - Organic compost

Benefits of Regenerative Techniques

- Top soil regeneration
- Increasing biodiversity
- Improving the water cycle
- Enhancing ecosystems
- Supports bio-sequestration
- Increases resilience to climate localchanges
- Strengthens the health and vitality of farm soil
- Increases crop productivity

Martha's Vineyard is not just a playground for the rich and famous

- Located 6 miles off Cape Cod
- 16k year around population; 116k in the summer
- Six different towns with own culture and gov't structure
- Cost food is 20% higher than mainland
- Housing crunch; little affordable housing options remain
- Most employers are seasonal: tourist, fishing, construction
- 40% of kids in our schools are on subsidized lunch programs
- 32 working farms; limited to 970 acres for land for farming, grazing, horses
- Rising seas and extreme weather are major concerns

Local Action Can Drive Change

- Straw free movement
- Ban on plastic containers
- Climate committees in every town
- Many conservation groups
- Reducing food waste in the trash stream; diverting to feed people, then animals, and finally compost
- Converting to regenerative agricultural practices
- Educate and engage the next generation

Island Grown Initiative leading the way on food system redesign

- **Our Mission: Build a regenerative and equitable food system on Martha's Vineyard that engages, informs and integrates the community.**
- **Three major goals:**
 - Increase Food Production
 - Reduce and Redirect Food Waste
 - Expand Access to Health Food for all Islanders

Increase food production

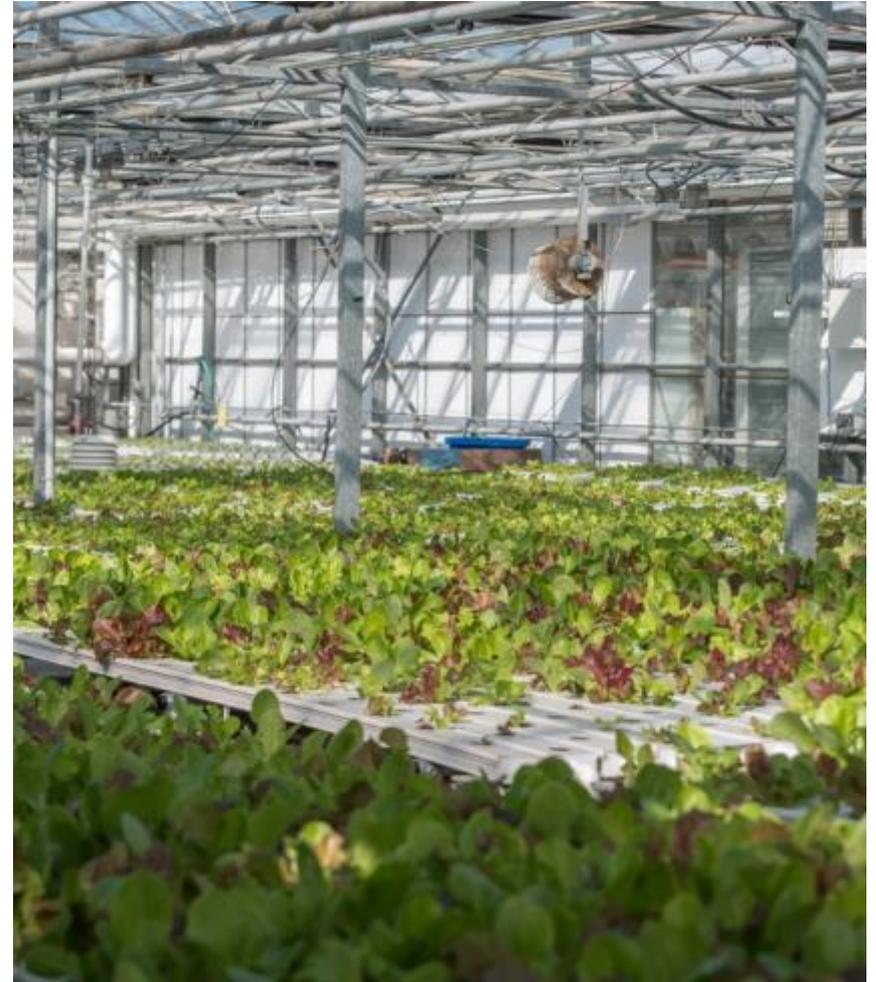
- A commitment to creating an innovation and educational site for regenerative practices at our Farm
- Provide community garden space and educational programming to back yard growers
- Grow year round in hydroponic greenhouse
- Manage educational programs at all island schools through hands on and curriculum based lessons
 - School gardens
 - Cooking clubs and classes
 - Harvest of the Month: expanding palate of young children
 - Creating consumers of the future who will demand good, locally grown healthy food

IGI's Farm (Martha's Vineyard) is Dedicated to Regenerative Practices



Hydroponic growing can supplement supplies off season

- 32,000 sq foot greenhouse
- Sell some to local groceries
- Provide for our Mobile Farmers Market
- Donate to Food Pantry/schools/COS
- Winter CSA



Reduce and Redirect Food Waste: Estimated 6500 tons/year shipped off

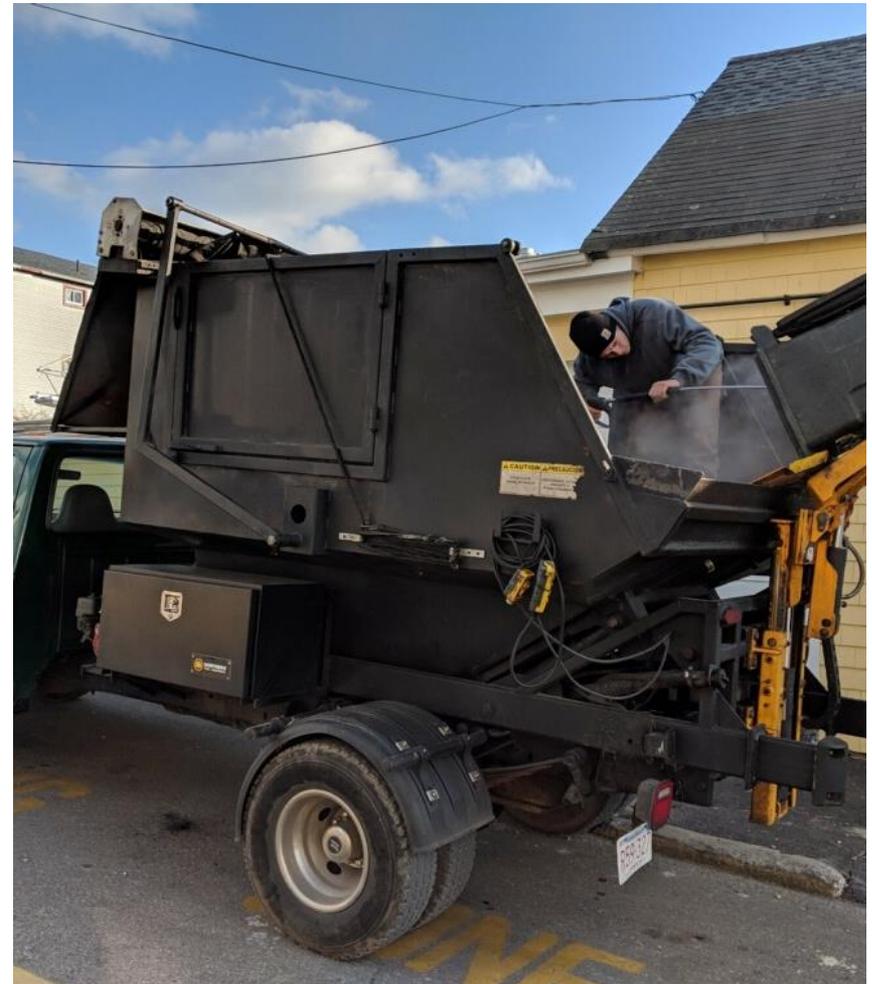
- **Educate** consumers about how to reduce food waste at home and properly recycle what they can't use
- **Glean** left over produce in farmer's fields
- **Collect** and **Compost** food waste to enrich the soil
- **Lead** the development of an island wide plan
 - Special initiative: **reduce food waste by 50% by 2030**

Turning the annual Agricultural Fair Green



Island Food Rescue Program

- Pick food waste from 50+ clients
- Restaurants, Schools, Hospital, Caterers
- FY'16: 17 tons
- FY' 17: 60 tons
- FY'18: 180 tons
- FY'19: est. 320 tons
- Feed ½ ton/week to chickens



Food Waste Turned into Compost



Process food waste and gleaned produce to feed those in need



Expand Access to Healthy Food For All Islanders

- Gleaning produce
- Grocery rescue program
- Processed foods delivered to homes of elders
- Mobile Farmers Market
- MV Food Equity Network
- Winter CSA
- Low cost produce to high schools & schools

Local Solutions Work: Get Started

