

GREENER BY
DEFAULT

Mission

Greener by Default consults with institutions to apply behavioral science to food policy, nudging diners towards sustainable plant-based food while preserving freedom of choice.

GEC/GBD Partnership Objective

To develop and deliver training materials from top leaders to frontline staff in order to:

- **Cement** GEC's position as a plant-forward industry leader
- **Empower** GEC chefs to be the best plant-based culinarians
- **Achieve** Sodexo's ambitious net zero carbon target
- **Reach** goal of 40+% plant-based this fiscal year, and 50% by 2025



Outline

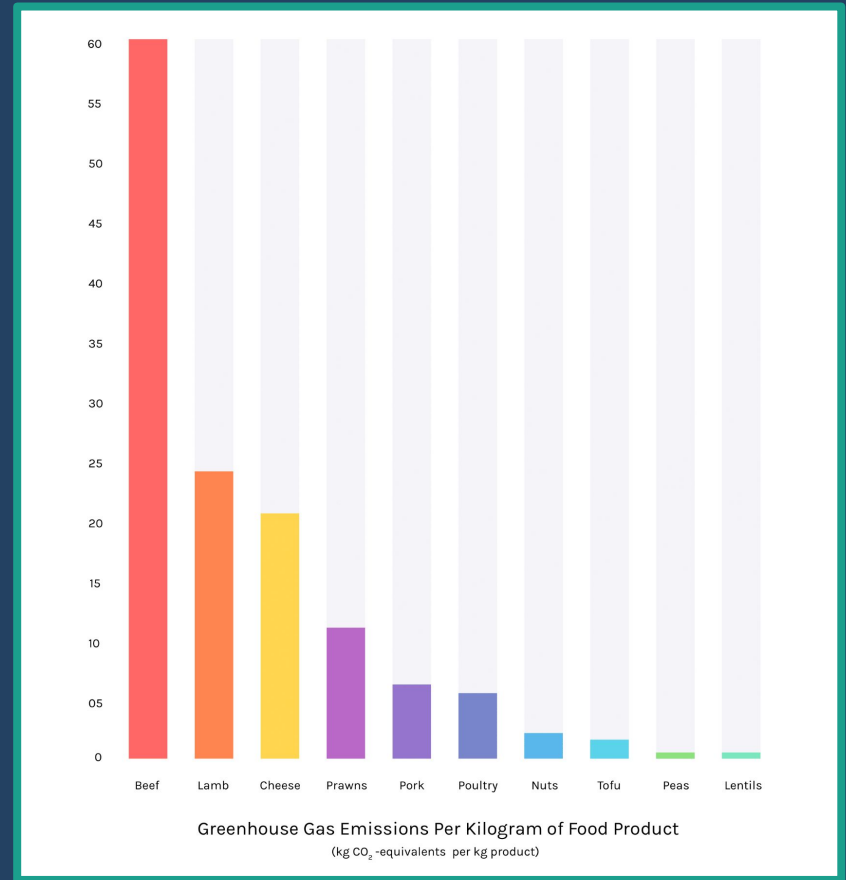
- Why Plant-Based
- Market Demand
- Behavioral Science Strategies
- Culinary Strategies



“When we think about threats to the environment, we tend to picture cars and smokestacks, not dinner. But the truth is, our need for food poses one of the biggest dangers to the planet.”

**-DR. JONATHAN FOLEY,
NATIONAL GEOGRAPHIC**

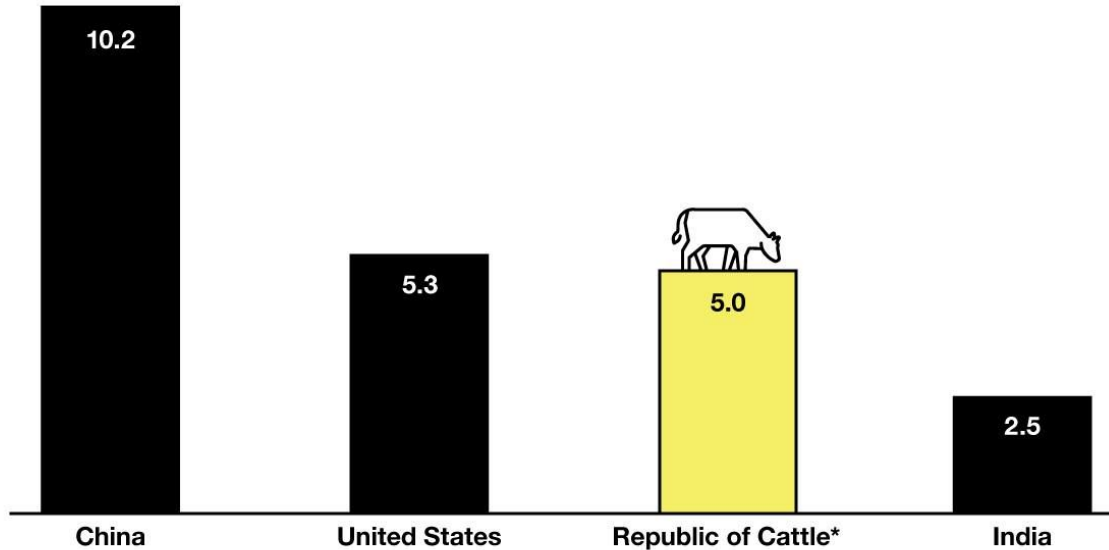
Not All Protein is Created Equal



If cattle were a country, they would rank third in greenhouse gas emissions.

gates
notes

Gigatons of CO₂ emissions per year



Source: UNFCCC, European Commission, UNFAO

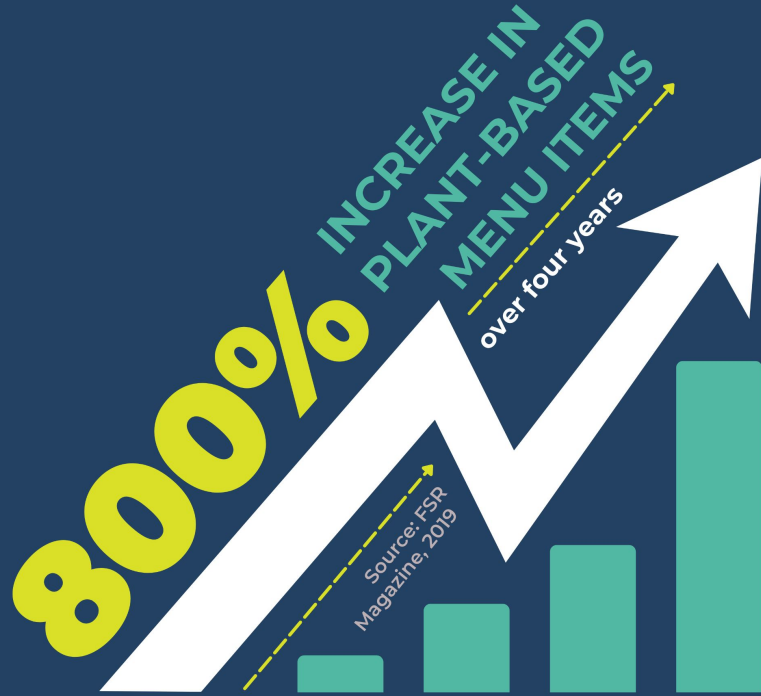
*Cattle figure represents CO₂ equivalent

Small changes add up! **Choosing a plant-based meal just once a week for a month** can spare emissions equivalent to charging your **iPhone for 2 years.**



A plant-based meal once a week for a month

equivalent to charging your iPhone for 2 years



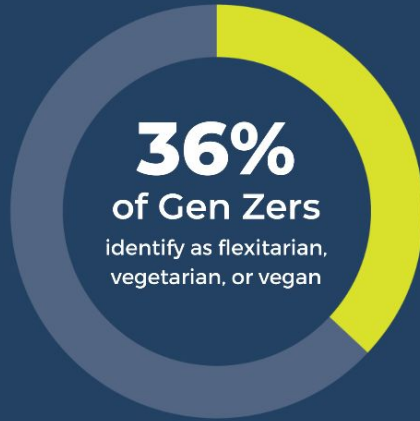
Good News: Plant-Based Demand is Booming

- Over the last four years, plant-based menu items have increased 800%
- In 2021, 62% of households bought plant-based products
- In 2021, 36% of Americans reported having recently reduced their meat consumption

Who's Driving This Trend?



Source: Dataessential, 2022



Source: Plant Based Foods Association; Nielsen, 2019





Greener by Default

Flipping the norm to make plant-based the default and give people the choice to opt into meat & dairy.

Inclusivity



Allergies: 30-50 million Americans are lactose intolerant.



Religion: Many religions encourage vegetarianism, and some restrict certain animal products.



Communities of Color: BIPOC are three times more likely to identify as vegetarian than white Americans.





Less Meat/Better Meat

“Having a plant focused menu helps me control food costs and easily stay in budget.”

-Chef Alicia Jenish-Mc Carron

Efficacy

Meat Default



-  % of participants who **selected plant-based**
-  % of participants who **selected meat**

Percentages of plant-based and meat meal selection among control (meat default) and intervention groups (plant-based) for events.
Plant-based default nudges effectively increase the sustainability of catered meals on college campuses: Three randomized controlled trials

Efficacy

Meat Default



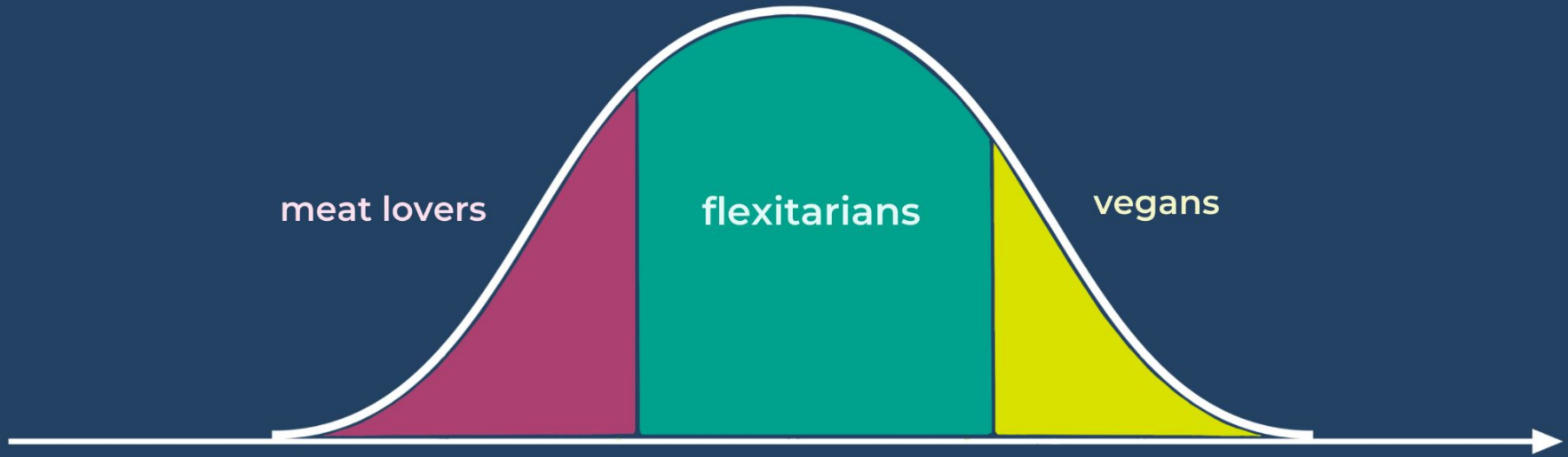
Plant-Based Default




-  % of participants who selected plant-based
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Percentages of plant-based and meat meal selection among control (meat default) and intervention groups (plant-based) for events.
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Opportunity for Impact





WHAT

Behavioral Science Strategies

Plant-Based Defaults

Serve plant-based with the option to opt into meat/dairy

- Salads & Bowls
- Global Stations
- Grill Stations





Climate-Friendly Ratios

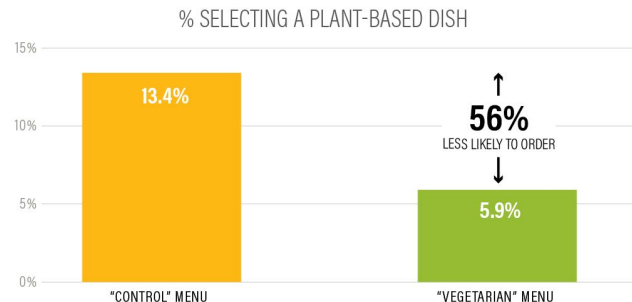
Offer at least 2 plant-based options for every animal-based option

- When the menu shifts from 2/3 meat entrees to 2/3 vegetarian entrees, selection of veg meals increases by 22 percentage points, or 56% overall.⁴⁴

Inclusive Menus

- Include veg options in the main menu, and at all main stations
- Ensure the first & last options are veg

A World Resources Institute study showed that these two simple changes increase veg orders by 56%



"CONTROL" MENU

Risotto primavera (v) <i>Peas, mushrooms, lemon 14.00</i>
Lobster & crab roll <i>Avocado, lettuce, lemon mayonnaise 17.00</i>
Sautéed king prawns <i>Chilli, garlic & parsley, basmati rice 22.50</i>
Deep fried haddock <i>Minted peas, hand cut chips, sauce tartar 15.50</i>
Chicken cacciatora <i>Roasted chicken breast, mushrooms, tomato, olives 14.50</i>
Steak frites <i>Rump pavé, hand cut chips, béarnaise sauce 19.50</i>
Hamburger <i>Relish, hand cut chips 13.50</i>
Ricotta & spinach ravioli (v) <i>Asparagus, butter & sage sauce 13.50</i>

v - suitable for vegetarians

"VEGETARIAN" MENU

Lobster & crab roll <i>Avocado, lettuce, lemon mayonnaise 17.00</i>	
Sautéed king prawns <i>Chilli, garlic & parsley, basmati rice 22.50</i>	
Deep fried haddock <i>Minted peas, hand cut chips, sauce tartar 15.50</i>	
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Tasty Titles

- Taste
- Texture
- Provenance

Avoid: Vegetarian/vegan/meatless/healthy

"Vegetarian Hummus Wrap"

vs.

*"Tierra Farms Roasted Red Pepper,
Avocado, Garlic Herb Hummus Wrap"*



Subtle Substitutions

Serve plant-based condiments, milks, desserts, and breads by default

- Inclusive
- Indistinguishable
- Inexpensive



Vegan carrot cake by Chef Efrain

Oat Milk by Default

- LinkedIn San Francisco cut dairy milk from 70% to 18% of milk served by serving oat by default, reducing carbon footprint by 50%
- Idea catching on nationally, Blue Bottle and Stumptown serve oat milk by default at all locations



Water Use

Milk vs. 'Milk'

Environmental impacts of different types of milk, per liter.



Source: Poore and Nemecek, [Science](#)

Image credit: New York Times

Small changes add up!
Switching to **oat milk in your latte just once** saves enough water for **two showers**.



Oatmilk in your latte

saves water for two showers

Culinary Strategies

“Plant-based cooking doesn't need to be complicated. It's just utilizing plant-based ingredients and applying fundamental culinary technique; we are not reinventing the wheel.”

-Chef Matthew Ward

Executive Chef of Residential Dining, University of North Texas

Co-Chair of MCURC Executive Chefs' Committee





International Cuisines

Draw inspiration from international cuisines that naturally incorporate plant-based proteins

- Vietnamese
- Mexican
- Middle Eastern
- Ethiopian
- Indian

Ponzu-Marinated Watermelon Poke Bowl by Chef Rhonald Conlu



A Long History

- Vegetarian mock meats date back over a thousand years, to the Tang Dynasty (600-900 AD)
- Almond milk was popular in Medieval France; researchers translated a recipe for it in a cookbook written in the 1300s by the Master Chef to King Charles VI.

Twin Dishes

Avoid offering alternatives with the same flavor profile.

- Chicken Enchiladas
- Black Bean Enchiladas

Instead, offer two distinctly different options, so decisions are based on flavor rather than meat vs. veg

- Black Bean Enchiladas
- Chicken Tacos





Nutritious and Filling

Ensure that plant-based options are filling & satisfying with carbs, protein, and fat.

- Use beans, tofu/tempeh, lentils, or veg meats
- Serve a side dish with protein
- Use nutritional yeast and/or cashews for sauces
- Garnish with avocado or nuts

Lean Into Familiar Flavors

The top motivator for consumers trying new plant based foods is “If it used flavors I love” (Datassential 2023)

- Feature beloved flavors in plant-based dishes
- Wrap unfamiliar ingredients in crowd favorites
 - *Breakfast Burrito with Tempeh Bacon*





Find Your Staples

Versatile plant-based staples allow for creative menuing

- **Lentil walnut meat**
 - Tacos
 - Lasagna
 - Meatloaf
- **Cashew cheese sauce**
 - Mac & cheese
 - Quesadillas
 - Baked potatoes

Tempt Yourself

- Aim to make plant-based dishes the most appealing, delicious options on the menu for *all* diners
- Ask yourself, “Would I be excited to order this at a restaurant?”



A close-up photograph of a hand holding a bunch of fresh, orange carrots with green leafy tops. The background is a blurred field of similar plants under a clear sky.

Create a more resilient world, by default

Visit: www.greenerbydefault.org

Contact: katie@greenerbydefault.org

Carbon footprint of meats and meat substitutes per 100 grams of protein

Emissions based on life-cycle analyses which include agricultural production, animal feed, raw materials, processing, transport, and packaging. This is measured in kilograms of carbon dioxide-equivalents per 100 grams of protein.

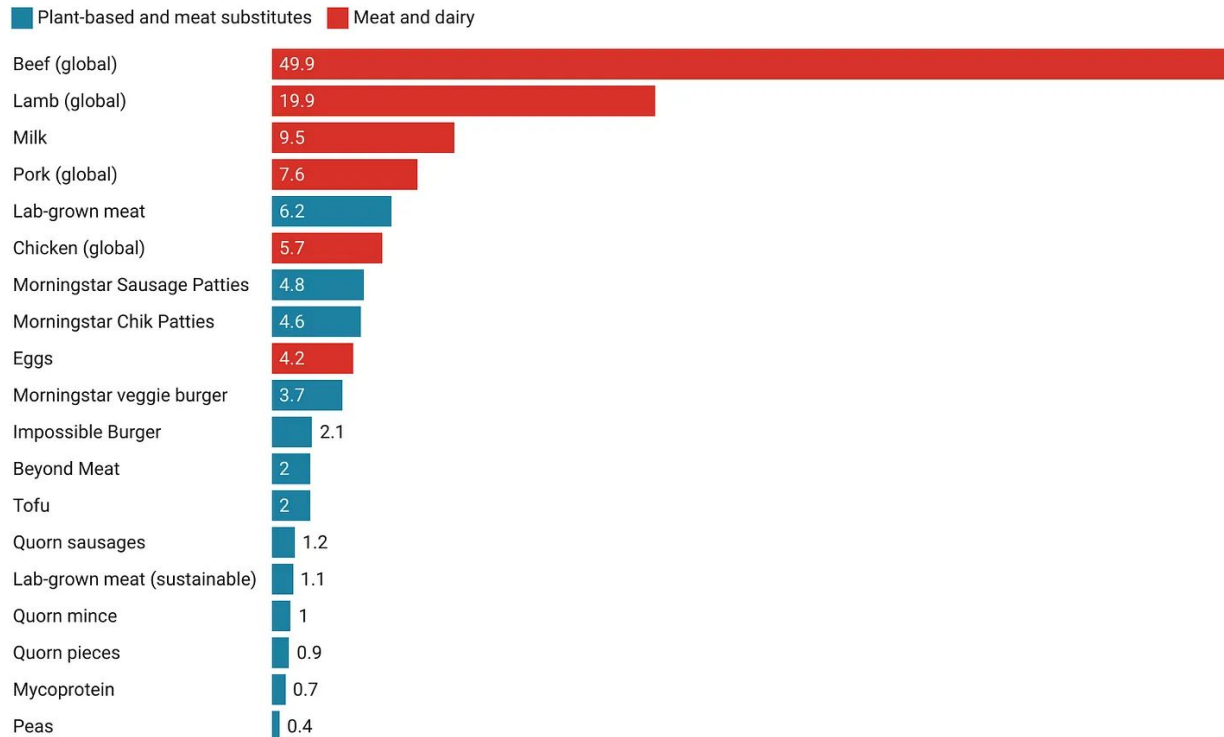


Chart: Hannah Ritchie • Created with Datawrapper