# GBD <br> GREENER BY DEFAULT 

RESOURCEGUIDE

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## Introduction: Greener by Default Defined



## What is Greener by Default?

Greener by Default is a simple and inclusive strategy to offer healthier and more sustainable meals. A Greener by Default menu features plant-based meals as the default, while giving diners the choice to opt into meat and/or dairy. Simply by changing the default, consumers are much more likely to choose a plant-based meal, even when meat and dairy options are available. Greener by Default helps you achieve sustainability goals, reduce catering costs, and serve more inclusive meals.

## Why is Greener by Default good for YOU?

## Meet the demands of your diners

 who are increasingly calling for healthier, more sustainable, plant-based dining options, ${ }^{2}$ while still giving diners the option to eat animal products.
## Meet the demands of your

institution, which likely has a goal to reduce greenhouse gas emissions. Play a key role in meeting that goal by offering more plant-based meals. We'll help you quantify your impact!

- Increase inclusivity by meeting the needs of those with more restrictive diets, thereby including everyone else, by default.
- Improve employee health with low-fat, high-fiber meals ${ }^{3}$.
- Look out for your bottom line Greener by Default is net neutral and in many cases saves you money.
- Implement this new default easily with our expert assistance if you ever need it. Free!

Who Are We?
The idea behind Greener by Default originated in Europe and was brought to the U.S. by Farm Forward and the Better Food Foundation, sister organizations that collectively have more than a decade of experience working at the intersection of food, farming, and policy.

[^0]

# Implementation: How to Co Greener by Default 

Greener by Default for any Dining<br>Setting: A How-To Guide

Celebrating Greener by Default


# Greener by Default for any Dining Setting: A How-To Guide 

## A CATERED MEETING OR PLATED MEAL

Institutions can implement Greener by Default in a variety of settings. Lunch at the office or a catered conference are great opportunities to go Greener by Default. Depending on how you order food, there are several ways to make your next meeting or event Greener by Default.

## For Individual Ordering with a Caterer:

If everyone is asked to order from a set menu, adopting Greener by Default may mean redesigning the menu to nudge people toward plant-based options. For example, in some cases you can work with your caterer to create a Greeener by Default menu filled with delicious and exciting plant-based options, with a few meat options. We can help you redesign menus or work with your caterer!

For the meat options offered, encourage your caterer to use recipes that make the animal products a garnish rather than the main portion of the meal. Use appealing language to describe the plant-based options and make sure the plant-based options are listed first and aren't segregated in a section by themselves.

## For Individual Ordering

 from a Restaurant:If you normally order from a restaurant, you can create your own Greener by Default menu by flipping the ratio of choices on any given menu. For example, if you're ordering sandwiches and the restaurant you're ordering for has 7 meat options and 3 veggie options, offer people a choice of 4 total options: 3 veggie sandwiches and 1 meat sandwich. In this way, you're switching the ratio of veggie to meat sandwiches from 3:7 to 3:1, making plant-based sandwiches the default. Tip: Don't forget to list the plant-based items first!

## For Group Ordering:

If you order food for a group meal, inform the group that the meal will be Greener by Default and that they can apprise you if they would like to opt into meat. If there is currently a mechanism for people to RSVP for a vegetarian option, flip it so that people can RSVP for the meat option instead. Talk with your caterer to ensure they can provide
delicious plant-based meals that are full of flavor and protein. International cuisines that are naturally plant-forward, such as Indian or Middle Eastern, are a great way to make sure everyone is satisfied. When the food arrives, meals with meat should come separately marked (similar to meals for those with allergies or other dietary meals for those with allergies or other dietar
restrictions). If attendees will pick up their food themselves, bring the catered food to the designated area with the meat option labeled and off to the side (similarly to how vegetarian options may be placed currently). If the food will be served to seated diners, use the same system that you currently use for people who requested vegetarian meals, but to identify those who requested meat.

Alternatively, if you are serving food in a buffet or "build your own" style, you can offer predominantly plant-based options and make meat and dairy add-ons available at the end of the line.


## Example Chipotle Menu:

Fajita Veggie and Guacamole Burrito Bowl, Tacos or Burrito
Sofritas and Fajita Veggie Burrito Bowl, Tacos or Burrito
Beans \& Rice Burrito Bowl, Tacos or Burrito
Chicken \& Fajita Veggies Burrito Bowl, Tacos or Burrito (contains chicken)

## Example Panera Menu:

Vegetarian black bean soup
Mediterranean Sandwich
Vegetarian garden vegetable soup
Fuji apple salad (contains chicken)

## Example Sweetgreen Menu:

Shroomami Bow
Spicy Thai Salad
entil and Avocado Salad
Hollywood Bowl (contains dairy)

## Example Whole Foods Menu

 (all plant-based):Vegan signature sandwiches and wraps
Falafel Duo with Hummus
Mediterrean Vegan Platter
Chicken or Vegan Mexican Fiesta

## Example Veggie Grill Menu

 (all plant-based):VG Beyond Burger
Quinoa Power Salad
Masala Bowl
Beyond Burger Cheesesteak Sandwich

## Example Olive Garden Menu:

House Salad
Traditional Marinara Pasta
Breadsticks
Bruschetta Caprese (contains dairy)
Peach Mango Smoothie

## AT A CAFE

A cafe is a great place to go Greener by Default. A few simple changes to your menu can provide the benefits of plant-based eating while still guaranteeing your customers the freedom to opt into a meat option.

## Climate-Friendly Ratios

Offer a minimum 2:1 ratio of plant-based to non-plant-based items, and make sure that every meat-based meal has a similarly-appealing plantbased alternative. For dishes that use animal products, encourage your chef to find recipes that make the animal products a garnish rather than the main portion of the meal. As you know, how your menu presents and describes your café's offerings influences your diners' choices a great deal Feature plant-based options prominently, rather than segregating them in a separate section and describe them with appealing language focused on flavo and provenance rather than health or plant-based "Roasted butternut and sage risotto" will be more popular than "Low-fat vegan risotto."

Make Your Base Plant-Based

Another option is to serve entirely plant-based entrees and include the option to add meat or dairy to any meal, potentially at an additional cost. Ensure that the base dish is hearty and protein-packed. Diners are already used to this model for bowls and salads.

## Subtle Substitutions

Serve plant-based condiments, desserts, milks and breads by default. This is more inclusive because it also meets the needs of those with lactose intolerance allergies, and religious restrictions. The quality of plant based products nowadays ensures diners won't even notice the difference.



## FOR A CONFERENCE OR A BUFFET

## Conferences are a wonderful place to adopt Greener by Default. Through either an adjustment to the registration site or a change in the buffet format, conferences can simply and effectively go Greener by Default. Try one or more of these methods at your next conference:

## Pre-register for meals with animal products

On the registration site, inform attendees that the conference will be Green er by Default and that they can opt into a meat meal in the dietary preferences and restrictions section. With this simple change, one conference went from serving only $24 \%$ vegetarian meals to over $67 \%$ vegetarian meals ${ }^{1}$, while another conference increased their vegetarian meals served from less than $15 \%$ to over $70 \%,{ }^{2}$ with both conferences going on to receive positive feedback about the food from the attendees. Once attendee arrive at the conference, those who requested a meat meal receive a ticket they can give to a staff member in exchange for a meat meal.

## Buffets

Here are several ideas for how to make you buffet Greener by Default:

Create a plant-based buffet with a meat ption or add-on at the end

Create a plant-based buffet and include a meat option or add-on at a different station

Create a plant-based buffet with a sign a he end of the buffet that tells attendees where to go or who to ask for a meat option

These three methods are simple ways of changing the structure of the buffet while nsuring that attendees are happy with what they are eating!

[^1]
## ALL YOU CARE TO EAT DINING

From small changes in the type of food served, to larger structural changes of the layout, Greener by Default can be implemented in many ways at an All You Care to Eat dining facility.

## Swap plant-based products for animal products

Certain products (e.g., milk, butter, mayonnaise) can easily be changed to plant-based, allergen-friendly options. Today's plant-based options are so tasty, most people can't tell the difference

## Swap the Ratio

Work with the chefs to ensure that every station has a minimum 2:1 ratio of plant-based to non-plant based items, and that every meat-based meal has an appealing and satisfying plant-based alternative Place plant-based meals first in line and on the menu, and serve plant-based items with large spoons to encourage people to take larger portions. Place animal-based foods last in smaller containers served with tongs to encourage smaller portions. If there is
 an all plant-based station, position it in a prominen location towards the front of the dining facility.

## Labels

Research has shown that the way we label food impacts consumer's food choices. Rather than marking dishes as "vegetarian" or "vegan", which tends to make omnivores feel it's not meant for them, label dishes that contain meat, dairy, eggs, and other common allergens, and indicate plant-based with a small (v). Use descriptors focused on flavors, textures, and ingredients, rather than focusing healthy or plant-based, i.e. "Cuban black bean soup," rather than "Vegetarian black bean soup." Theise simple changes can increase the number of plant-based options served. ${ }^{3}$

## Make Your Base

 Plant-BasedAnother option is to serve entirely plant-based entrees with meat and dairy available on the side or upon request. You can also establish a small, separate station where diners can go if they would like to add animal products to their meal.



# Celebrating Greener by Default 

## Description of

 Greener by DefaultGreener by Default can be implemented discreetly or promoted publicly, depending on your company's needs. Here's a sample paragraph if you would like to communicate your policy.

The <insert name> is going Greener by Default because making plant-based meals the default nudges all of us to choose delicious food that's better for the environment and our health. By simply going Greener by Default, <insert name> will reduce our carbon footprint, offer more inclusive and sustainable food, and increase the overall health of our meals, while still preserving diners' freedom of choice to opt in for animal products. <Insert name> champions Greener by Default because it makes it simple to make decisions that align with our values.


# Impact: Why Go Greener by Default 

Carbon and Water Calculations
Why Defaults Work
Inclusivity

GREENER BY DEFAULT RESOURCE GUIDE

## The Impact of Greener by Default

Our food system accounts for one-third of all global greenhouse gas emissions (GHG) ${ }^{1}$. Animal agriculture alone is responsible for more greenhouse gas emissions than all transportation combined ${ }^{2}$. Animal agriculture also accounts for over $70 \%$ of agricultural land use (a eading driver of deforestation and habitat destruction) while producing only $18 \%$ of the world's calories ${ }^{3}$. Several studies have shown that the only way we will meet the Paris Climate Agreement is for Western countries to adopt more plant-forward diets ${ }^{4}$.


Greener by Default is one of the most effective ways to encourage people to eat more healthy plant-based foods while respecting freedom of choice and fostering a more inclusive eating environment. Here we show the impact of Greener by Default in threewo ways. First, we conducted research to measure the water and greenhouse gas emissions saved by switching from meat meals to plant-based meals. Second, we surveyed how changing the default can significantly affect human behavior without limiting choice. Third, we examined the often-overlooked ways that food policies can positively contribute to inclusivity.

In a company with 1,000 employees serving lunch every week day ${ }^{5}$ :

Water
saved
saved
Upfront
cost

Emissions reductions Upfront cost


Greener by Default 9,000,000 gallons
Cost neutral or savings


Low-flow toilets 600,000 gallons
\$15,000

Greener by Default $350,000 \mathrm{~kg}$ of Co2 eq
Cost neutral or savings


240 KW Solar array $275,000 \mathrm{~kg}$ of Co 2 eq \$360,000

## The Impact of Defaults: Behavioral Research

Defaults can have a powerful effect on individua and group behavior. People tend to go with the status quo rather than opting into a different choice, since opting in or out of a condition requires more time and effort. Subtle changes to the default can affect behavior in ways that advance the public good without removing an individual's autonomy. ${ }^{6}$

One example that highlights the power of defaults is organ donation. Germany, which requires citizens to opt into donation, has a participation rate of $12 \%$, while Austria, which has an opt out system, has a participation rate of $99 \%$. ${ }^{7}$

Another example is retirement savings. One study found that with an opt in approach, participation rates began at $20 \%$ and gradually increased to $65 \%$. With an opt out approach, participation rates began at $90 \%$ and grew to $98 \%{ }^{8}$

Discreet changes in the default have been shown to impact diners' food choices. Harvard School of Public Health conducted a field experiment to test the effects of defaults on meat consumption. The control group was presented with a meat option as the default, and the experimental group was presented with a vegetarian option as the default. Results showed that when the default meal was changed from meat to vegetarian, the percentage of people who ate vegetarian increased 43 percent (from 24 percent to 67 percent). A similar peer reviewed study conducted at a conference in Denmark found even greater impacts, with the average percentage of people who ate the vegetarian option increasing from 7 percent to 87 percent. ${ }^{9}$

Based on the promising results of this research and anecdotal evidence from other institutions, we believe Greener by Default is a highly effective way to encourage people to eat more plant-based meals.

[^2]

## Fostering Inclusivity: The Power of Food

Having to request special accommodations, rather than being able to simply enjoy a meal with coworkers, can be alienating. Serving plant-based foods that meet the needs of those with more specific diets includes everyone, by default.

Allergies \& Sensitivities: Ability to digest lactose in adulthood is the result of a European genetic mutation; a majority of the global population - 60 to 75 percent - is lactose intolerant ${ }^{10}$ (or, as some people refer to it, "lactose normal"). Approximately 30-50 millions Americans experience some degree of lactose intolerance, the majority of whom are people of color. ${ }^{11}$

Religious \& Cultural Dietary Needs: Several religious traditions, including Buddhism, Hinduism, Jainism, Sikhism, Rastafarianism, and Seventh Day Adventism, mandate or encourage vegetarianism. Others, such as Islam and Judaism, prohibit certain animal products. Serving plant-based foods satisfies these restrictions by default

Appealing to a Broader Base: Consumption of plant-based products is skyrocketing, particularly among young people and communities of color. More than half of Millennials identify as flexitarians ${ }^{12}$, 60 percent of Gen Zers want to eat more plant-based foods ${ }^{13}$, and 31 percent of non-white Americans reduced their meat consumption in the last year, compared to 23 percent of Americans overall ${ }^{14}$.

10 [1] Storhaug CL, Fosse SK, Fadnes LT. Country, regional, and global estimates for lactose malabsorption in adults: a systematic review and meta-analysis. The Lancet. Gastronterology \& Hepatology 2017:2(10):738-746.

11 Eunice Kennedy Shriver National Institute of Child Health and Human Development. n.d. "Lactose Intolerance: Information for Health Care Providers."
12 Joseph Staples, "Research reveals young Americans are likely to shift away from meat many identifying as 'flexitarians'"' SWNS digital, danuary 15th, 2021

13 Aramark, 2018
14 Justin McCarthy and Scott DeKoster, "Nearly One in Four in U.S. Have Cut Back on Eating Meat," Gallup digital, January 27, 2020.


Culinary Resources: Greener by Default is Delicious!

## Making Greener by Default Easy and Delicious!

## We want to make it as easy as possible for you to implement Greener by

 Default in your institution.Contact us today for free assistance, including:

- One-on-one consultation
- Implementation guides
- Menus and recipes
- Sourcing assistance
- Marketing and educational materials
- Impact calculations

Simply visit www.greenerbydefault.org or email info@greenerbydefault.org to get started.

There are also lots of wonderful resources available for chefs looking to expand their plant-based repertoire:

- For institutions, Forward Food offers a recipe database and ample resources, including toolkits and a guide to hosting culinary trainings
- For athletes, The Game Changers offers high protein recipes tha Olympic athletes swear by.
- For allergen-friendly recipes, Physicians' Committee for Responsible Medicine offers the Universal Meals program and recipes
- For culturally-relevant food, Oldways offers a variety of recipes drawn from cultural food traditions.




## Appendix

## Greenhouse Gas Impact: Sample Menu Analysis

| TOTAL SAMPLE MENU COMPARISON |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | GHG Per <br> Serving (kg <br> CO $^{2}$ eg) | Grams <br> Protein | Grams <br> Saturated <br> fat | Miligrams <br> Cholesterol | Miligrams <br> Sodium |
| Breakfast | 1.0 | 2.0 | 9.2 | 253.8 | 95 |
| Lunch | 1.3 | 5.5 | 8.2 | 102.4 | 480 |
| Dinner | 2.6 | 0.5 | 5.2 | 111.4 | -102.66 |
| Avg. for All | 1.6 | 2.6 | 7.5 | 155.9 | 157.44667 |
| Avg. \% Change | $-63.02 \%$ | $-5.89 \%$ | $-42.76 \%$ | $-100.00 \%$ | $-0.42 \%$ |

## Summary

In order to measure the environmental impact of going to a Greener by Default food policy, we compared plant-based meal options to similar meat options. Surveying breakfast, lunch, and dinner, we found that the greenhouse gas (GHG) emissions of plant-based meals are, on average, 63 percent lower than the GHG emissions of animal-based alternatives. We also found that plant-based meals contained less saturated fat, cholesterol, and sodium, and more fiber, than equivalent meat options.

We determined that, on average, a Greener By Default policy can increase the amount of plant-based meals chosen by around 60 percent. This was calculated by averaging the results of several case studies that tested vegetarian defaults in conference settings.

Calculations for businesses were made with the assumption of a 1,000 person company that is open for 260 days out of the calendar year.

| BREAKFAST SAMPLE MENU |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Meat Options | GHG Per Serving (kg $\mathrm{CO}^{2} \mathrm{eg}$ ) | Grams Protein | Grams Saturated fat | Miligrams Cholesterol | Miligrams Sodium |
| Cheese and Sausage Omlette | 2.12 | 30.9 | 19.8 | 594.3 | 982 |
| Yogurt and Granola | 1.3 | 22.8 | 3.75 | 10 | 157 |
| Pancakes | 0.612 | 18.6 | 12.4 | 157 | 2,073 |
| LUNCH SAMPLE MENU |  |  |  |  |  |
|  | GHG Per Serving (kg $\mathrm{CO}^{2} \mathrm{eg}$ ) | Grams Protein | Grams Saturated fat | Miligrams Cholesterol | Miligrams Sodium |
| Beef Burger | 2.96 | 31 | 23 | 127 | 1324 |
| Turkey Sandwich | 1 | 29 | 9.2 | 67.6 | 1277 |
| Cream of Chicken with Wild Rice | 1.76 | 37 | 8 | 95 | 490 |
| Canitas Burrito | 2.09 | 43.8 | 16.25 | 120 | 1085 |
| DINNER SAMPLE MENU |  |  |  |  |  |
|  | GHG Per Serving (kg $\mathrm{CO}^{2} \mathrm{eg}$ ) | Grams Protein | Grams Saturated fat | Miligrams Cholesterol | Miligrams Sodium |
| Farmed Salmon w/ Rice Veggies | 1.76 | 52 | 3.25 | 107.25 | 597 |
| Chicken Caesar Salad | 1.5 | 38 | 9.6 | 91 | 602 |
| Beef Lasagna | 7.41 | 37.5 | 16.5 | 136 | 1,993 |


| PLANT-BASED BREAKFAST SAMPLE MENU |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| DV Options | GHG Per Serving (kg $\mathrm{CO}^{2} \mathrm{eg}$ ) | Grams Protein | Grams Saturated fat | Miligrams Cholesterol | Miligrams Sodium |
| Tofu Scramble | 0.282 | 21 | 3 | 0 | 1,656 |
| Oatmeal with Soymilk | 0.37 | 25 | 3 | 0 | 136 |
| Vegan Pancakes | 0.31 | 20.4 | 2.5 | 0 | 1,134 |
| PLANT-BASED LUNCH SAMPLE MENU |  |  |  |  |  |
|  | GHG Per Serving (kg $\mathrm{CO}^{2} \mathrm{eg}$ ) | Grams Protein | Grams Saturated fat | Miligrams Cholesterol | Miligrams Sodium |
| Vegan Burger | 0.47 | 31.5 | 6.5 | 0 | 596 |
| Roasted Veggie Sandwich | 0.648 | 26 | 4.2 | 0 | 909.12 |
| Lentil Soup | 0.862 | 34 | 1.8 | 0 | 244 |
| Black Bean Burrito | 0.728 | 27.4 | 11 | 0 | 504 |
| PLANT-BASED DINNER SAMPLE MENU |  |  |  |  |  |
|  | GHG Per Serving (kg $\mathrm{CO}^{2} \mathrm{eg}$ ) | Grams Protein | Grams Saturated fat | Miligrams Cholesterol | Miligrams Sodium |
| Spicy Peanut Butter Tempeh \& Rice | 0.66 | 46 | 7.09 | 0 | 919 |
| V Beyond Meat Chicken Caesar Salad w/ Chickpea Croutons | 0.916 | 40 | 4.17 | 0 | 1,215 |
| Vegan Lasagna | 1.37 | 40 | 2.5 | 0 | 1,366 |


[^0]:    1 Adam Meier, "Workshop on Behavioral Insights and Health," Harvard School of Public Health, 2016,
    2 Michael Whiteman, "Consultants Predict 11 Hottest Food and Beverage Trends in Restaurant and Hotel Dining for 2018," Baum+Whiteman Trend Reports, accessed October 3, 2019, https://docs.wixstatic.com ugd/Oc5d00_90935d6fda344991a8fc2452eb112c83.pdf

[^1]:    Meier, Adam. "Workshop on Behavioral Insights and Health." (Harvard School of Public Health, 2016)
    2 Case Study: Society for the Study of Theology Conference. (Society for the Study of Theology, 2019).

[^2]:    "Food systems account for over one third of greenhouse gas emissions." UN News digital. March 2021 "Key Facts and Findings." Food and Agriculture Organization of the United Nations digital.
    "Livestock's Long Shadow." Food and Agriculture Organization of the United Nations digital. 2006. http://www.fao.org/3/a0701e/a0701e00.htm
    Michael A. Clark, Nina G. G. Domingo, et al, "Global food systems emissions could preclude achieving the 1.5 " and 2 "C Michael A. Clark, Nina G. G. Domingo, et al, "Global food systems
    climate change targets." Science vol. 770 , issue 6517 . Nov 2020.

    5 Assuming $60 \%$ DV participation rate, based on average participation rate in previous studies, and assuming 260 working days per year
    6 Richard H. Thaler and Cass R. Sunstein, Nudge: Improving Decisions About Health, Wealth, and Happiness Richard H. Thaler and Cass R. Sunstein, Nudge
    (New Haven, CT: Yale University Press, 2008).
    7 E. Johnson and D. Goldstein, "Medicine. Do defaults save lives?", Science, no. 302 (November 2003): 1338-1339.
    8 Brigitte Madrian and Daniel Shea. "The Power of Suggestion: Inertia in 401(K) Participation and Savings Behavior." Brigitte Madrian and Daniel Shea. "The Power of Suggestion: Inertia in
    The Quarterly Journal of Economics vol. 116, issue 4. November 2001.

    9 Pelle G Hansen, Mathilde Schilling, Mia S Malthesen, "Nudging healthy and sustainable food choices: three randomized controlled field experiments using a vegetarian lunch-default as a normative signal," Journal of Public Health , fdz154,

