2024 VIZIENT CONNECTIONS SUMMIT
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REFLECTION
REFLECT | ADAPT | EVOLVE

Transforming Today for a Healthy and Sustainable Tomorrow

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Terri M. Scannell, MBA and Law, Principal Advisor, Sustainability and ESG, OhioHealth

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Meredith Edwards, MBA, Director of Supply Chain Sustainability & Diversity, Stanford Health Care

Terry Duffina, MBA, MA, Director of the Sustainability Program Office, Stanford Health Care

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Learning Objectives

Describe two supply chain sustainability initiatives that help decrease healthcare's carbon footprint.

Discuss leading practices to improve operational efficiency and community health in the face of climate change.

Transforming Today for a Healthy and Sustainable Tomorrow

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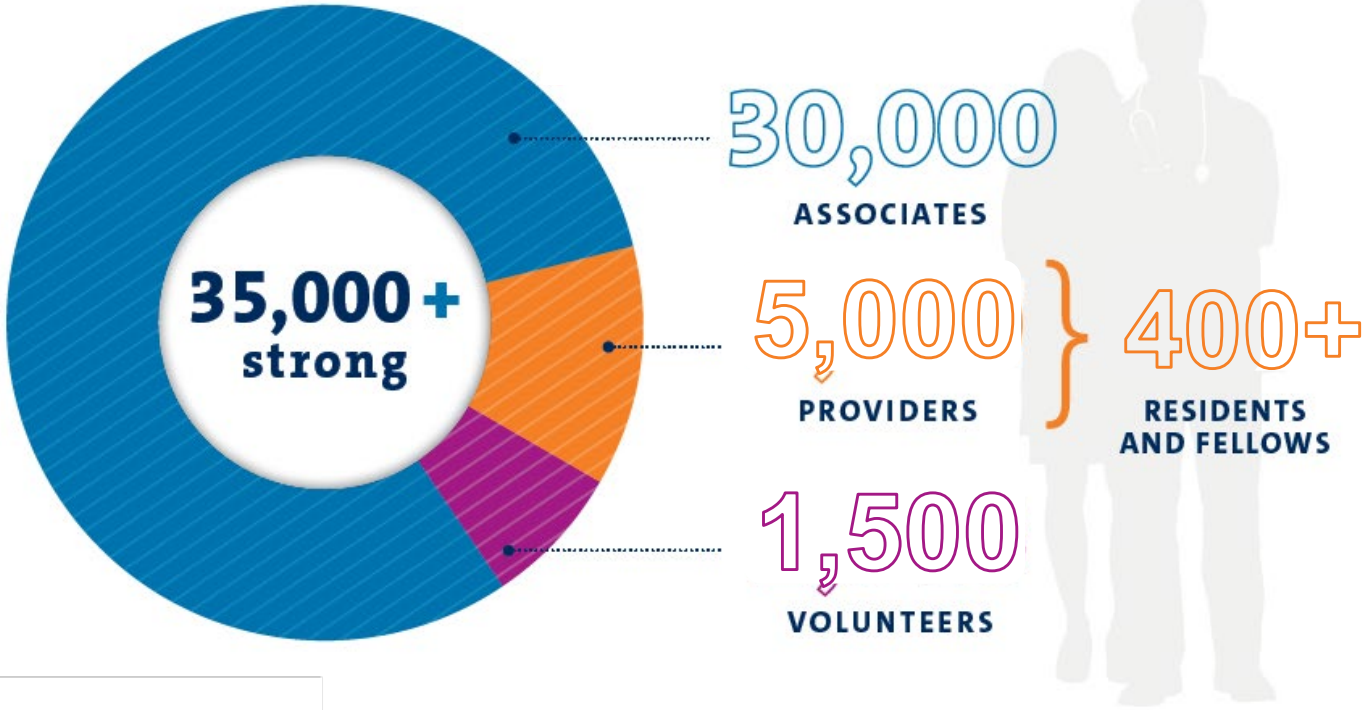
OhioHealth Size and Scale

West Ohio Conference of United Methodist Church

We are a faith-based, not-for-profit healthcare system.



3.7M
OUTPATIENT VISITS

572,465
EMERGENCY VISITS

159,951
ADMISSIONS AND OBSERVATIONS

107,863
SURGERIES

14,180
BIRTHS

722
RESEARCH STUDIES

Represents Fiscal Year 2022 Data

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18 Hospitals and Over 200 Care Sites Across Ohio

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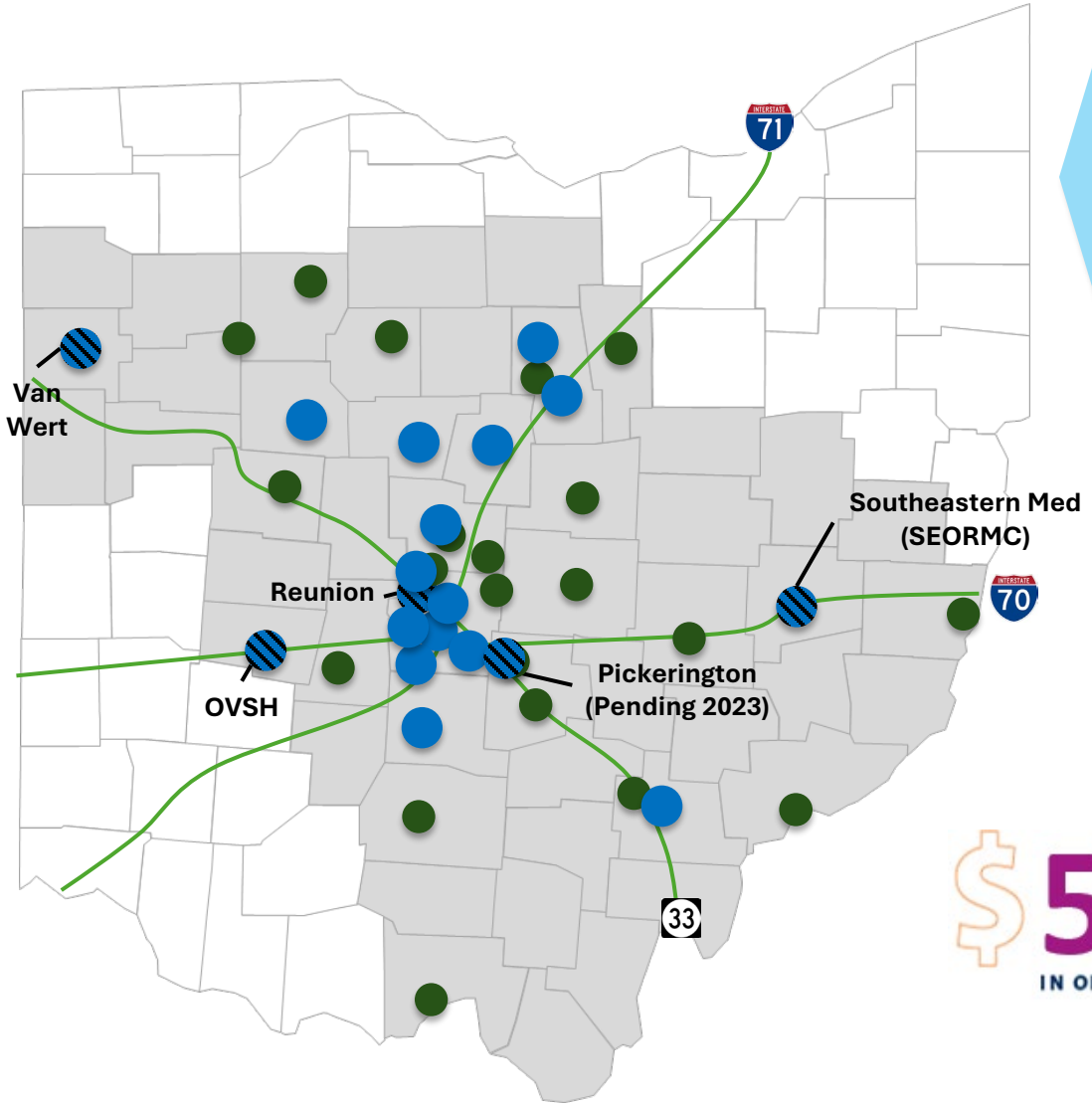
OhioHealth Service Area

- **Member, Managed, & JV Hospitals**
- **2021+ Additions**
- **Additional Program Deployment**
  - Service Line Outreach/Support
  - OhioHealth Stroke Network
  - Supply Chain Management



- Collectively, our 50-county service area includes ~4M people

2020, 2021, 2022 & 2023 TOP HOSPITALS & HEALTH SYSTEMS FOR DIVERSITY

BY DIVERSITY INC

$5.4b IN OPERATING REVENUE *In FY22*

FINANCIAL STRENGTH RATING
AA+ BY STANDARD & POOR'S
Aa2 BY MOODY'S
AA+ BY FITCH

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WHAT WE BELIEVE

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Mission

To improve the health of those we serve.

Vision

To provide exceptional care for all through experiences that earn a lifetime of trust.

Values

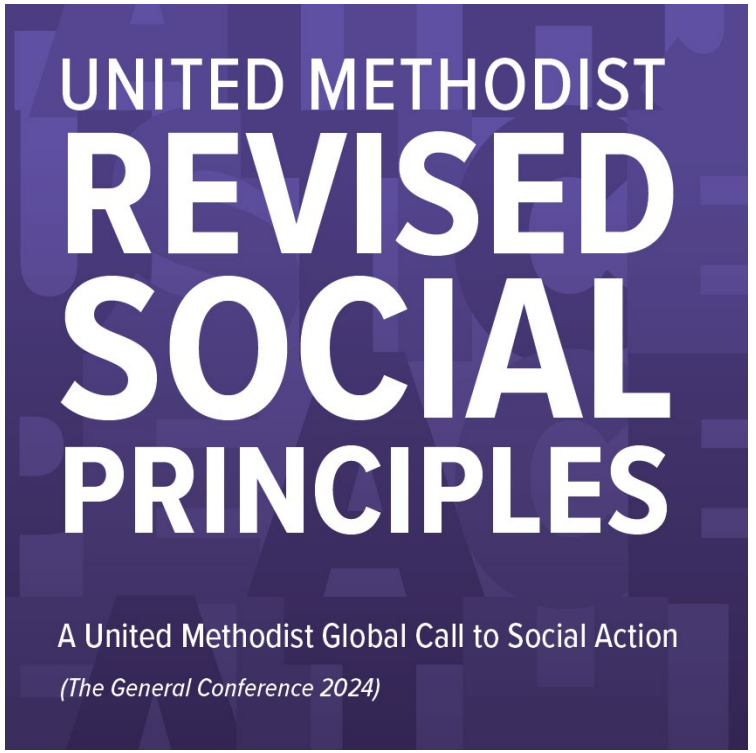
Compassion, Excellence, Inclusion, Integrity and Stewardship

Cardinal Value

To honor the dignity and worth of each person.

Social Principles and Environmental Stewardship

- As an extension of UMC, Environmental Stewardship is fundamental
- Formed and informed by the Church's teachings and Social Principles
- Demonstrated in our commitment to protect and heal the communities WE serve
- **Creation care:** care of the planet, all people and all species



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Why OhioHealth Set Sustainability Goals

*"Climate Change is the greatest **health** threat of the twenty-first century, and also the greatest opportunity to address social determinates of health"*

-The Lancet

SUSTAINABILITY

HAS A DIRECT

IMPACT

on human health

AND it directly connects to our value of

STEWARDSHIP.

At OhioHealth, sustainability is not peripheral: our patients deserve it and our associates expect it

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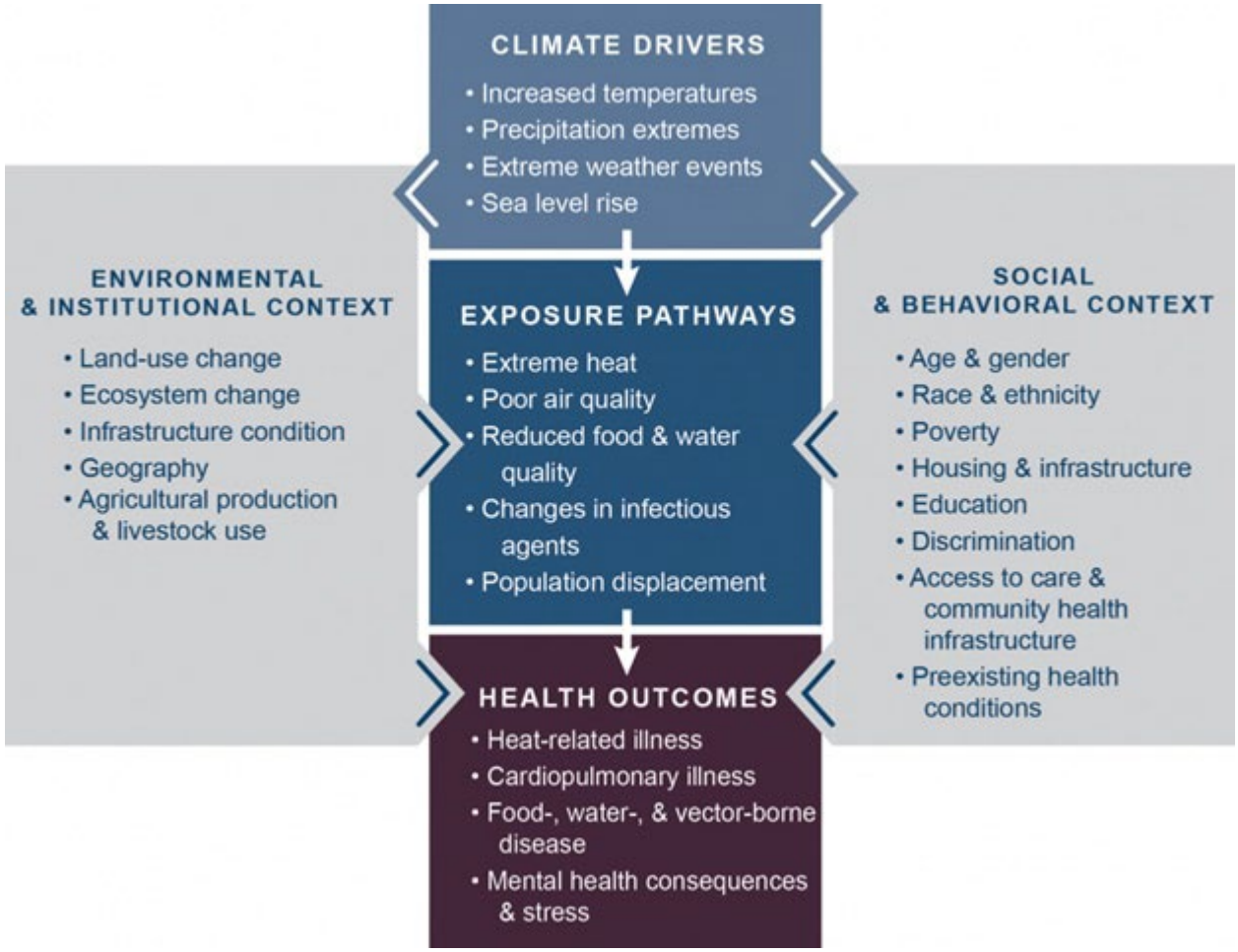
Code Red for Humanity

IPCC Working Group 1 report is a **code red for humanity**. The alarm bells are deafening and the evidence is irrefutable: greenhouse-gas emissions from fossil-fuel burning and deforestation are *choking our planet and putting billions of people at immediate risk*
IPCC August 2021

The last time CO2 levels in our atmosphere were this high was over two million years ago. We've already warmed the planet by 1.1°C since pre-industrial times, and this is *causing dangerous disruption in nature and impacts on people across the world.*
IPCC Mar 20, 2023



USGCRP, 2016: *The Impacts of Climate Change on Human Health in the United States: A Scientific Assessment*. Crimmins, A., J. Balbus, J.L. Gamble, C.B. Beard, J.E. Bell, D. Dodgen, R.J. Eisen, N. Fann, M.D. Hawkins, S.C. Herring, L. Jantarasami, D.M. Mills, S. Saha, M.C. Sarofim, J. Trtanj, and L. Ziska, Eds. U.S. Global Change Research Program, Washington, DC, 312 pp.

IPCC=Intergovernmental Panel on Claim Change

Impacts of Climate Change on Human Health

CHANGES IN CLIMATE

- Increased global temperature
- Extreme weather and disasters
- Precipitation extremes
- Sea level rise
- Changes in land use and growing seasons

EFFECTS OF CLIMATE CHANGE

- Extreme heat
- Air and water pollution
- Reduced food and water quality
- Changes in infectious diseases and vector transmissions
- Increasing allergens

HEALTH IMPACTS

- Heat related illness
- Cardiovascular disease, stroke, and other chronic conditions
- Injuries and death
- Mental and neurological disorders
- Zoonotic, vector- and water- borne diseases
- Respiratory diseases and asthma

Climate Change Affects Us Unequally

Under-served populations with health disparities

(Some communities of color;
Low-income populations;
Low-educational attainment groups; Immigrant groups; Indigenous populations)

Exposed workers

(e.g., farmers, construction workers)

Persons with disabilities

Vulnerability by life stage

(Fetal/pre-natal, infants, young children, pregnant women, elderly)

Vulnerability associated with chronic medical conditions

(e.g., diabetes, asthma, cardiorespiratory diseases, psychiatric diseases)

Populations in LMICs

(Higher rates of existing diseases, malnutrition, and extreme poverty)

Climate Events Impact Health and Care Delivery

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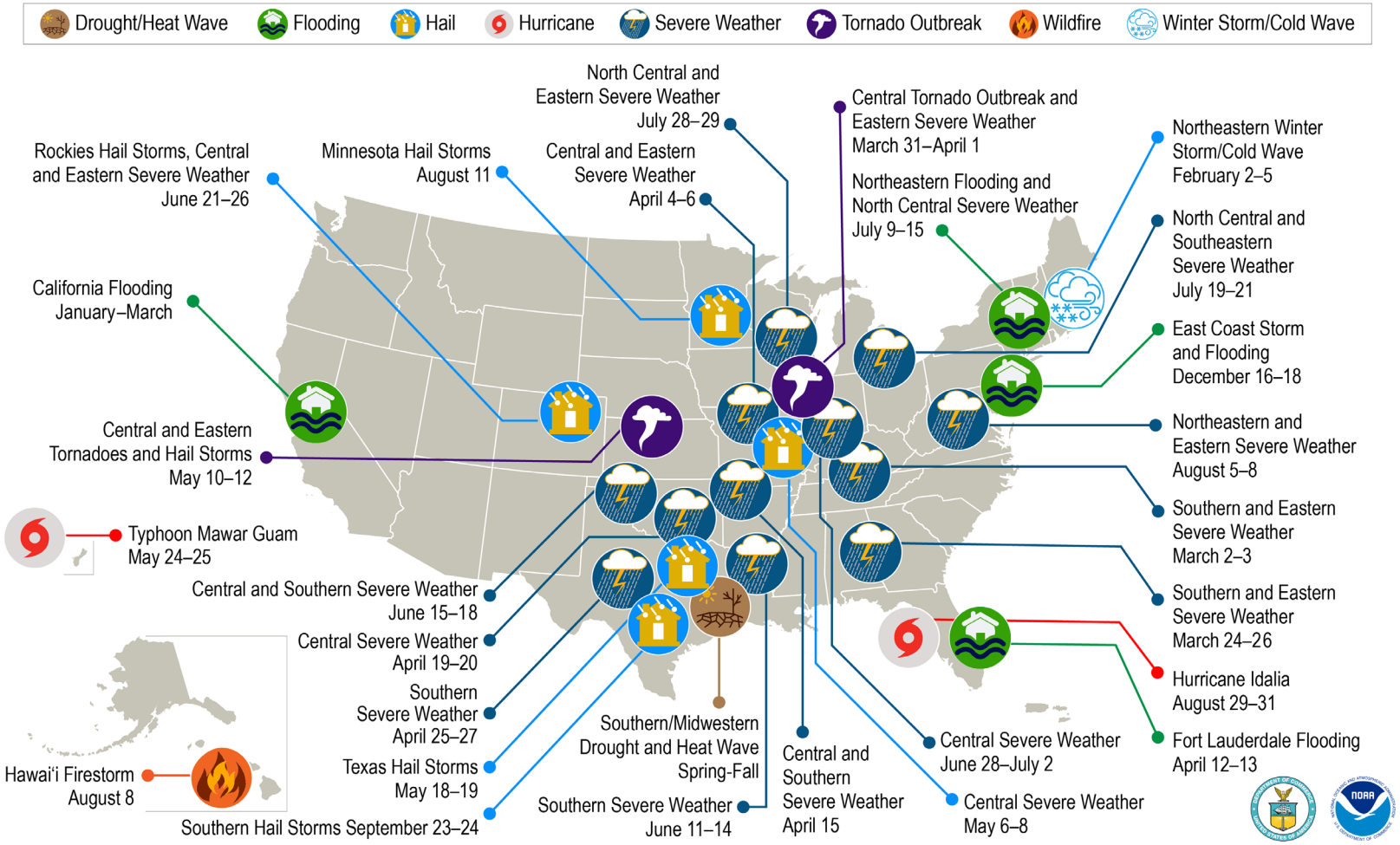
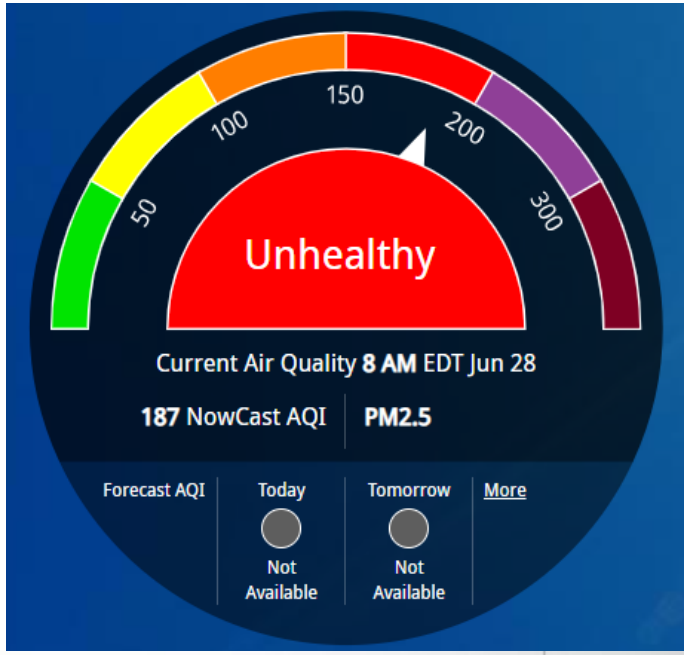
U.S. 2023 Billion-Dollar Weather and Climate Disasters

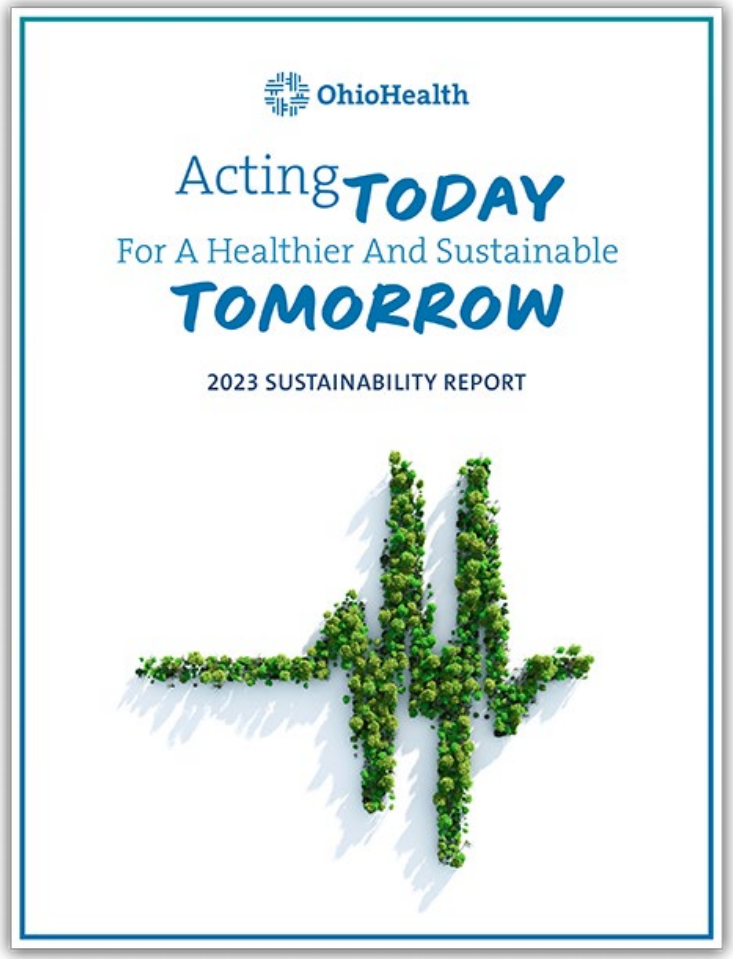


*This map denotes the approximate location for each of the **28 separate billion-dollar weather and climate disasters that impacted the United States in 2023.***



Source: The Columbus Dispatch

OhioHealth's Climate Pledge and Sustainability Reporting



- Reduce organizational emissions by 50% by 2030 and achieve net-zero by 2050
- Designate an executive-level lead and conduct an inventory of Scope 3 (supply chain) emissions
- Develop and release a climate resilience plan, anticipating the needs of groups in our community that experience disproportionate risk of climate-related harm

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Targeting Healthcare Emissions

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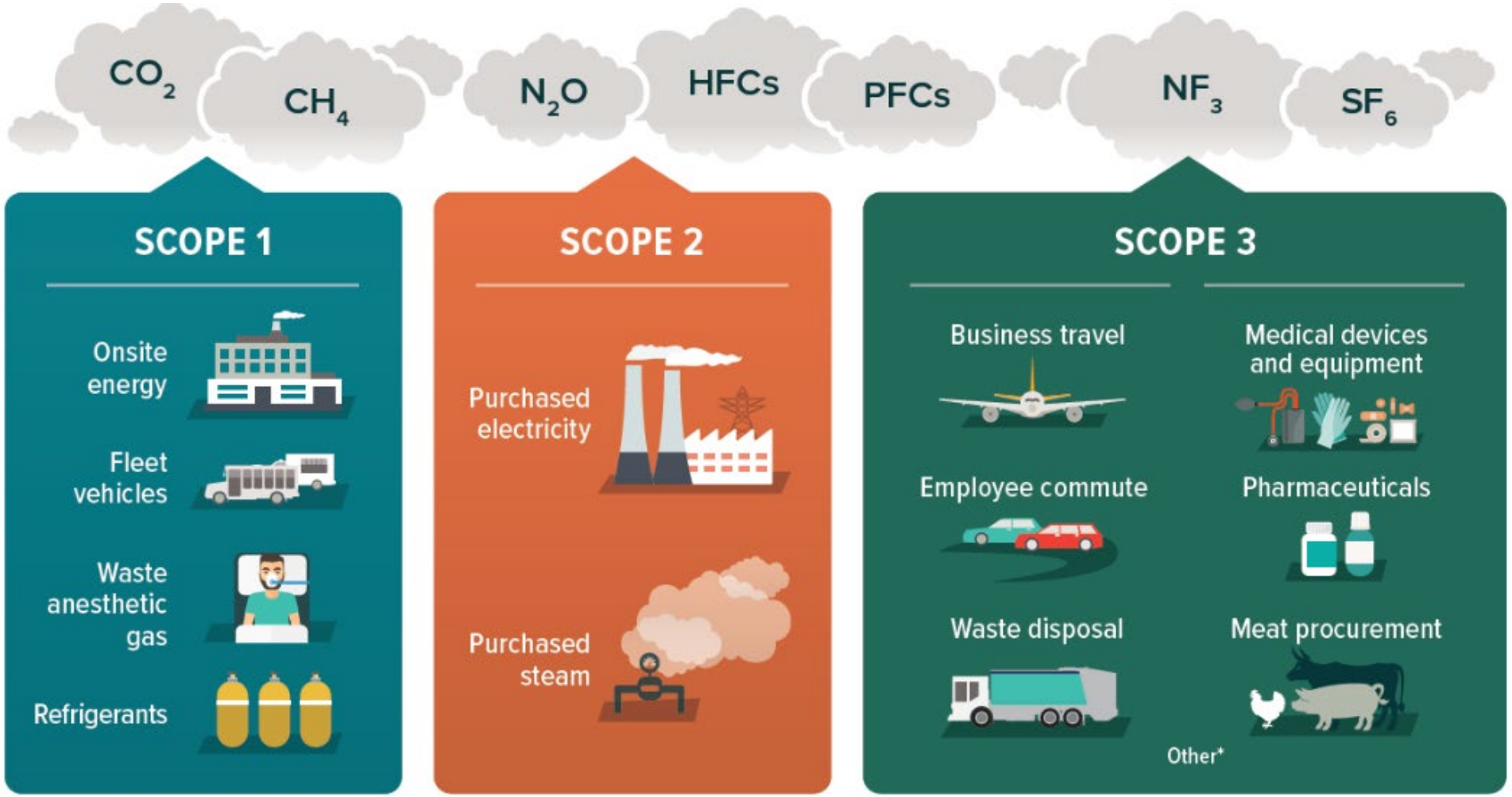
The health care sector accounts for 8.5% of U.S. emissions



Source: Health Care Without Harm & Arup, 2019

Set Goals to Improve Operational Performance

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We have made meaningful progress in Sustainability

by setting board goals in 5 focus areas

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Smart Energy

WHERE WE ARE:

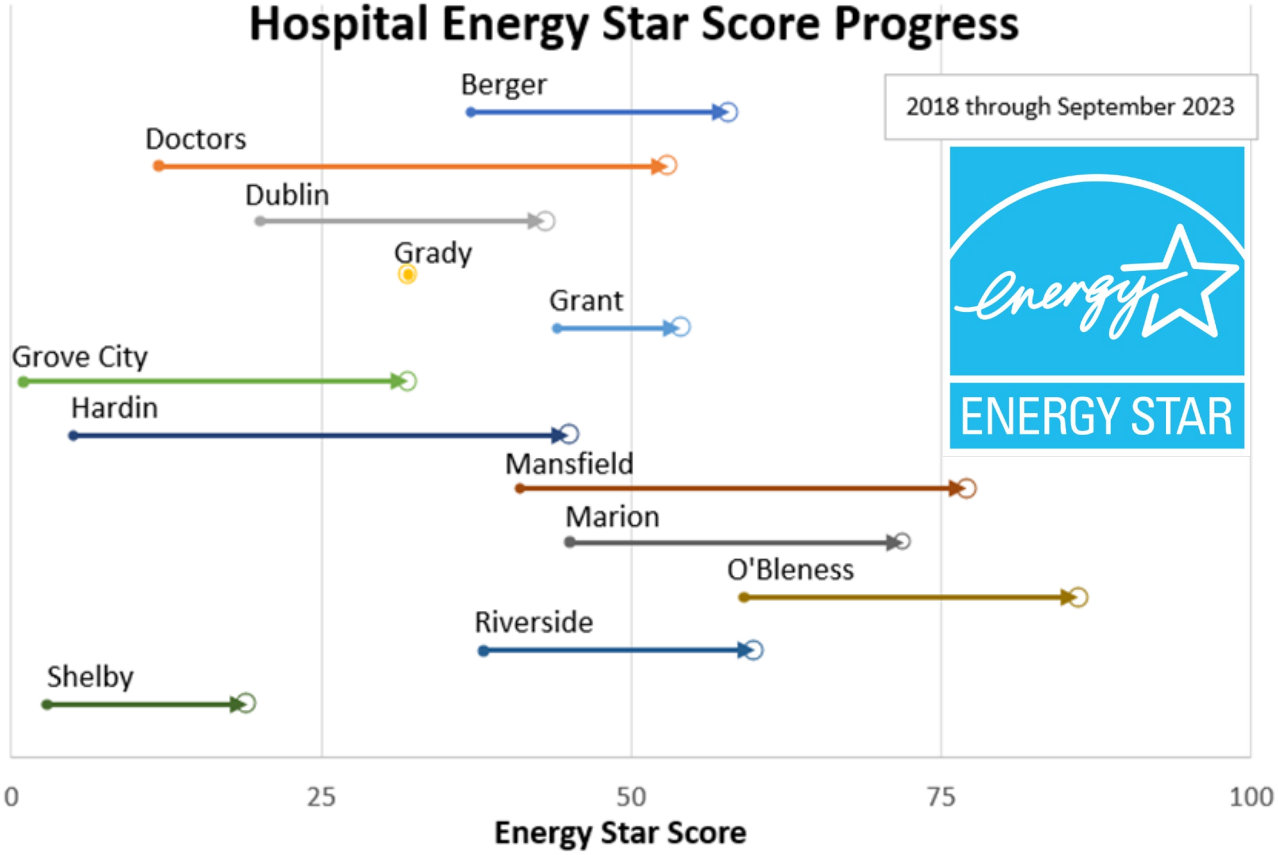
16% energy per square foot reduction since 2018

WHAT WE'VE DONE:

- Efficiency and resiliency improved at each hospital
- Pathway for all electric buildings + renewable energy

WHAT THIS MEANS:

- Reduced Scope 1 and 2 emissions by 49,000 tons of CO2 annually, resulting in 100,000 tons less coal



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Green Transportation

WHERE WE ARE:

Prioritizing low/zero emission vehicles to minimize air pollution

WHAT WE'VE DONE:

- 100+ charging stations across central Ohio
- Courier routes moving to all EV; improving air quality
- Drone deliveries tackling access and emissions reduction

WHAT THIS MEANS:

- Shifting to green transportation means zero tailpipe pollution and reduced Scope 1 emissions reducing particulate matter in central Ohio

Responsible Purchasing

WHERE WE ARE:

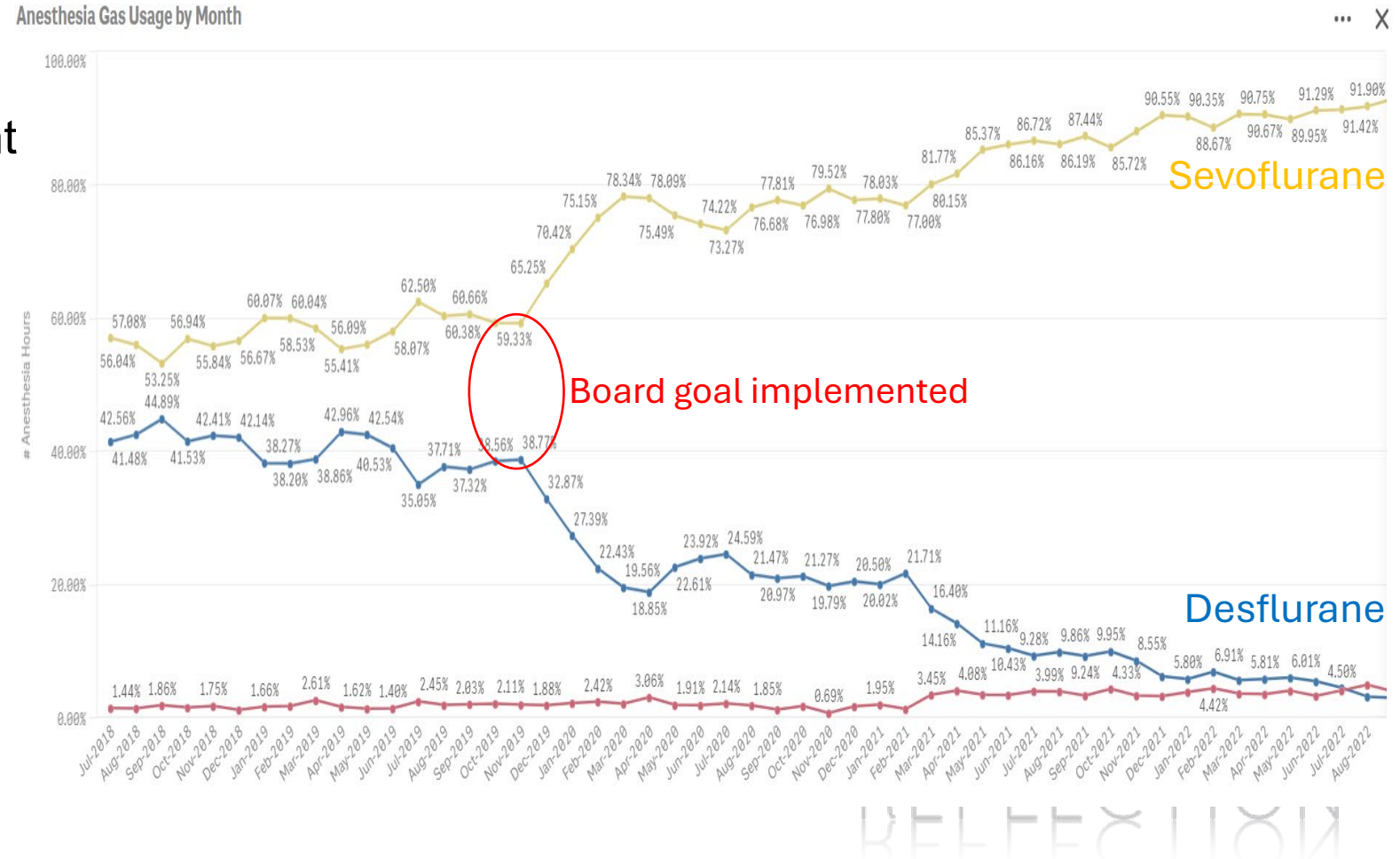
Implementing Sustainable Procurement program alongside Supplier Diversity

WHAT WE'VE DONE:

- Established policy to prioritize emissions reductions, chemicals of concern, and more
- Implemented projects, such as eliminating desflurane (anesthetic gas)

WHAT THIS MEANS

- Healthier environment for our patients and clinicians



Healthy Buildings

WHERE WE ARE:

Sustainability standards integrated into all construction projects and building resiliency

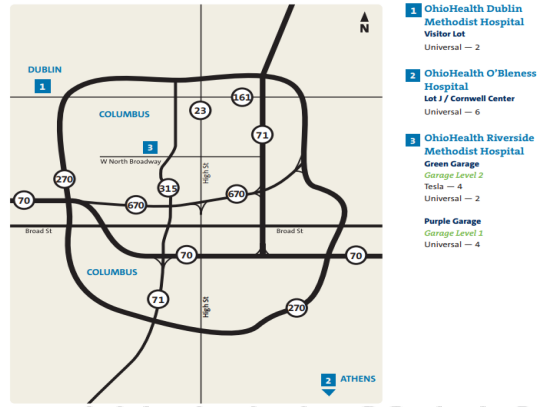
WHAT WE'VE DONE:

- Standards reinforce equitable charging access across our communities
- Commitment to community, patient, and associate health

WHAT THIS MEANS

- Targeting building standards aligns with climate resiliency strategy, extends asset life, and supports culture

OhioHealth Electric Vehicle Charging Ports



Less Waste

WHERE WE ARE:

Recycling rates are at 23% and diverted 240 tons of food waste

WHAT WE'VE DONE:

- Over 2,500 tons of waste is recycled each year
- Controlling food waste reduces cost, remain at budget despite 18% inflation in food cost
- OhioHealth Kitchens do not add to 1 million lbs. of food waste a day in Franklin County

WHAT THIS MEANS:

- Minimizing waste reduces methane and CO2 Scope 3 emissions and reduces hunger of most vulnerable populations.

Imagine...

What does our vision need to look like if, as the leading healthcare steward in our communities, WE restore health for current and future generations?

Lessons Learned

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- A board-level goal moves the needle on environmental sustainability and a three-year goal window accelerated wins.
- Advisory and structure support from our Faith, Culture and Community Benefit Board Committee is a critical success factor for aligning with mission.
- Leadership support and trust of functional implementation teams to make an impact was key to sustainability goal ownership across the organization.
- Implementation of sustainability goals requires consideration of key community stakeholders.

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Key Takeaways

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- We’re far from done but integrating sustainability will continue to support meaningful advancements in environmental leadership, operational performance, and community health while building a culture of stewardship and ethics.
- Don’t outsource the hard work and of insight and creativity; trust internal experts and community members to know their areas, leveraging sustainability to foster engagement and boost culture.
- Set teams up for success by celebrating wins AND learning from challenges.

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Stanford MEDICINE

STANFORD HEALTH CARE

LUCILE PACKARD CHILDREN'S HOSPITAL

STANFORD HEALTH CARE – TRI-VALLEY

1,198
Licensed Beds

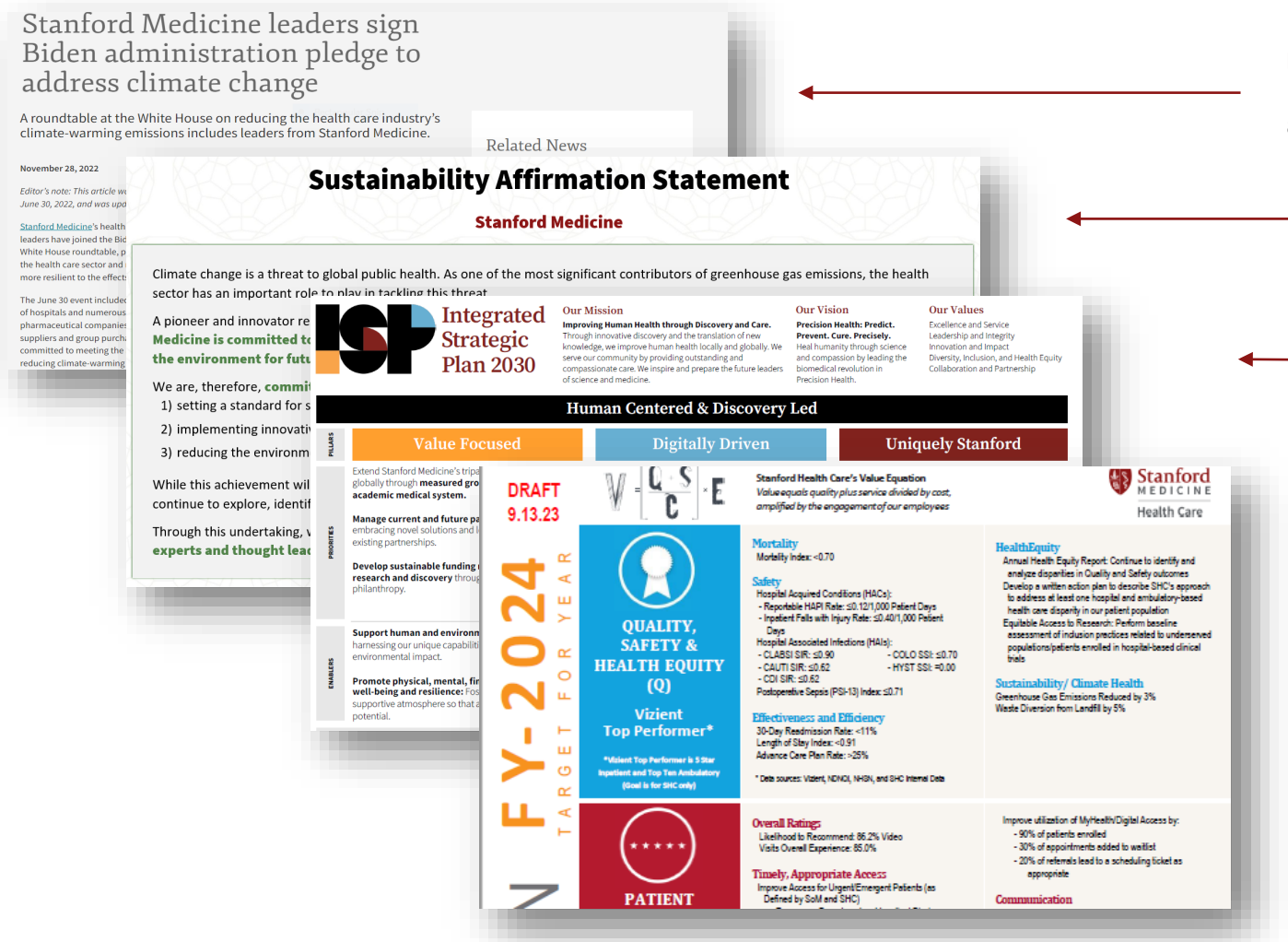
$9.8B
Annual Revenue

+27,000
Employees

>400
Clinic Locations

Stanford Medicine's Sustainability Commitments

Stanford Medicine has committed across the entire strategic framework, from Board of Directors to Stanford Health Care Annual Operational Plan.



Federal Commitment
Reduce organizational emissions by 50% by 2030 (from a baseline of 2012) and achieve net-zero by 2050, publicly accounting for progress on this goal every year.

Stanford Medicine Board of Directors Commitment
Committed to promoting the health and well-being of the people and communities Stanford Medicine serves while safeguarding the environment for future generations

Stanford Medicine Integrated Strategic Plan (ISP)
Support human and environmental health by harnessing our unique capabilities and reducing our environment impact

Stanford Health Care FY24 Operational Plan
- Greenhouse Gas Emissions reduced by 3%
- Waste Diversion from Landfill by 5%
- Improve Air Quality by Reducing Single Occupancy Vehicle by 5.7%

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Transforming Tomorrow's Health Care Supply Chain

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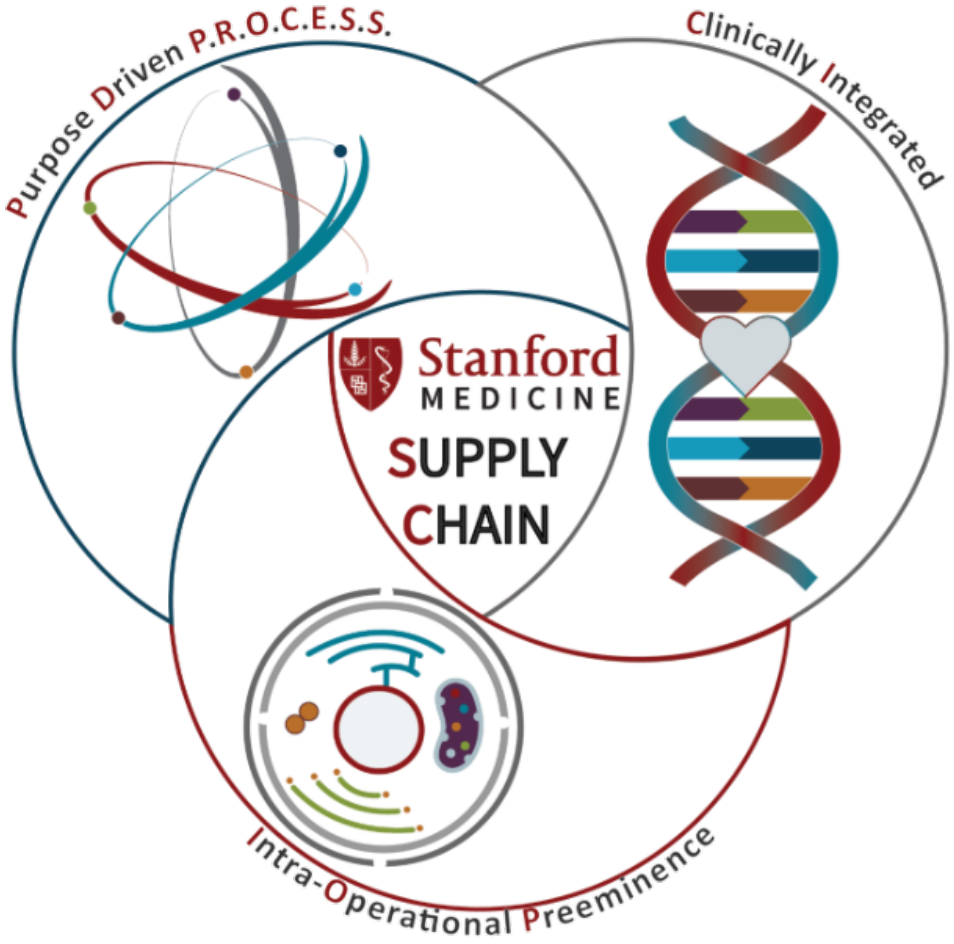
Stanford Medicine's vision is to be a leading-edge Supply Chain Organization.



Digitally Driven: Enhancing people, process, and technology through digital innovation and intelligence

Purpose Driven P.R.O.C.E.S.S.: **P**urchasing **R**eliable services and products that are **O**utcomes-Based and **C**linically-Integrated from **E**quitable and **S**ustainable **S**ources

Intra-Operational Preeminence: Delivering premium value together as a single network, as one supply chain

Clinically Integrated: Serving the healing hands and our patients through ensuring all the 'rights' are met in bringing forward value, impact, and linking to outcomes

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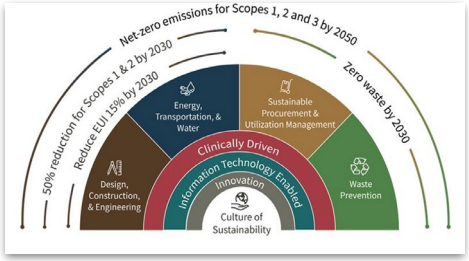
The Why: Benefits of Sustainable Procurement

Sustainable procurement promotes environmental responsibility, supports employee engagement, and enhances community and patient health.



Contributes to sustainability goals

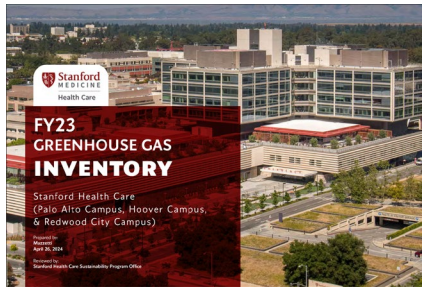
Integrates and balances sustainability alongside other organizational goals such as safety, budget, resilience, and diversity

Contributes to patient, employee, and community health

Reduces exposures to chemicals of concern throughout Stanford Medicine's facilities

Reduces unnecessary waste

15,000 pounds of waste is generated daily at the Palo Alto campus alone



Supports a healthier environment

Reduces greenhouse gas emissions associated with purchased goods and services, which account for the majority of Stanford Medicine's total emissions

Emphasizes product lifecycle cost

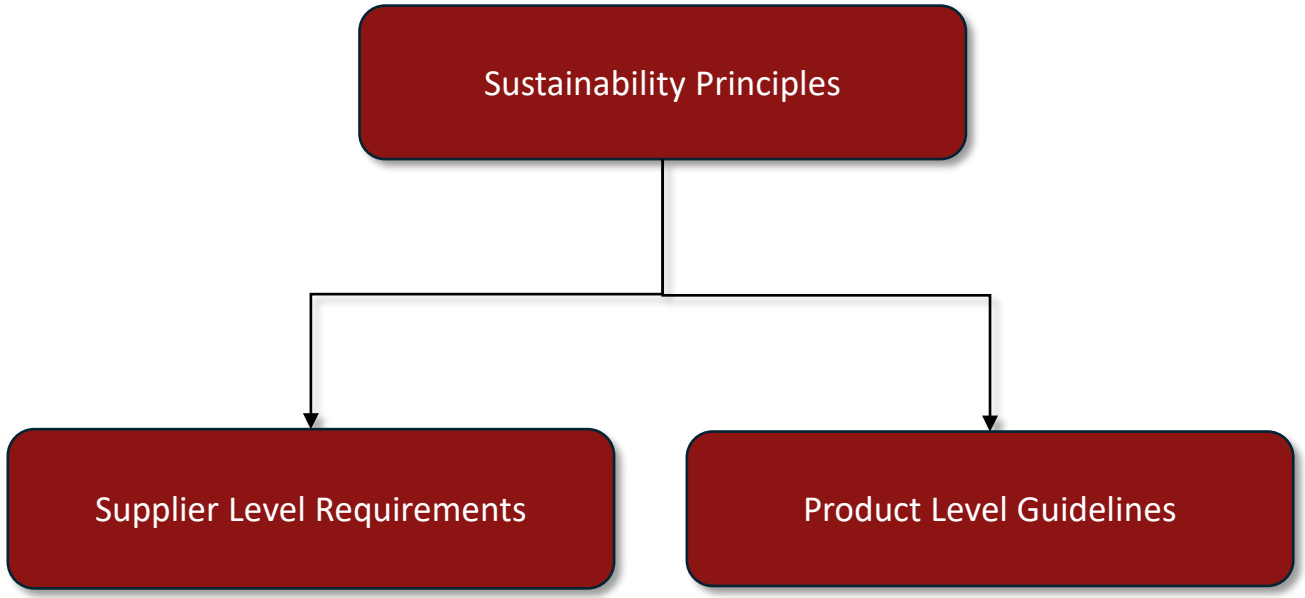
Considers production, packaging, transportation, use, and disposal

Attracts new employees and helps with engagement

86% of Stanford Health Care employees state that it's important for them to work for an employer that prioritizes sustainability

Stanford Medicine's Sustainable Procurement Policy (SPP)

In May 2023, Stanford Medicine adopted a Sustainable Procurement Policy.



The SPP is founded on a set of principles that require suppliers to consider operational practices and product level attributes.

Sustainable Procurement Policy

Sustainable Procurement Policy: Principles

The SPP includes five overarching sustainability principles, with specific supplier and/or purchasing requirements related to each principle.

Reduce greenhouse gas (GHG) emissions	Incorporate healthy materials	Design for a circular economy (waste)	Promote water and energy efficiency	Prioritize local and regional manufacturers
Example: Suppliers reduce Scopes 1 & 2 emissions	Example: Products do not contain specific chemicals of concern	Example: Products can be reused, reprocessed, or recycled	Example: Energy Star or WaterSense certification	Example: Suppliers are locally or regionally based

Sustainable Procurement Policy: Product Level Guidelines

Stanford Medicine is developing detailed sustainability requirements for each major product category.

Medical

- Medical Products
- Lab Supplies
- Pharmacy Supplies

Technology, Digital Services, and Bio-Med

- Bio-Medical Equipment
- IT Equipment
- Print Management

Hospitality and Environmental Services

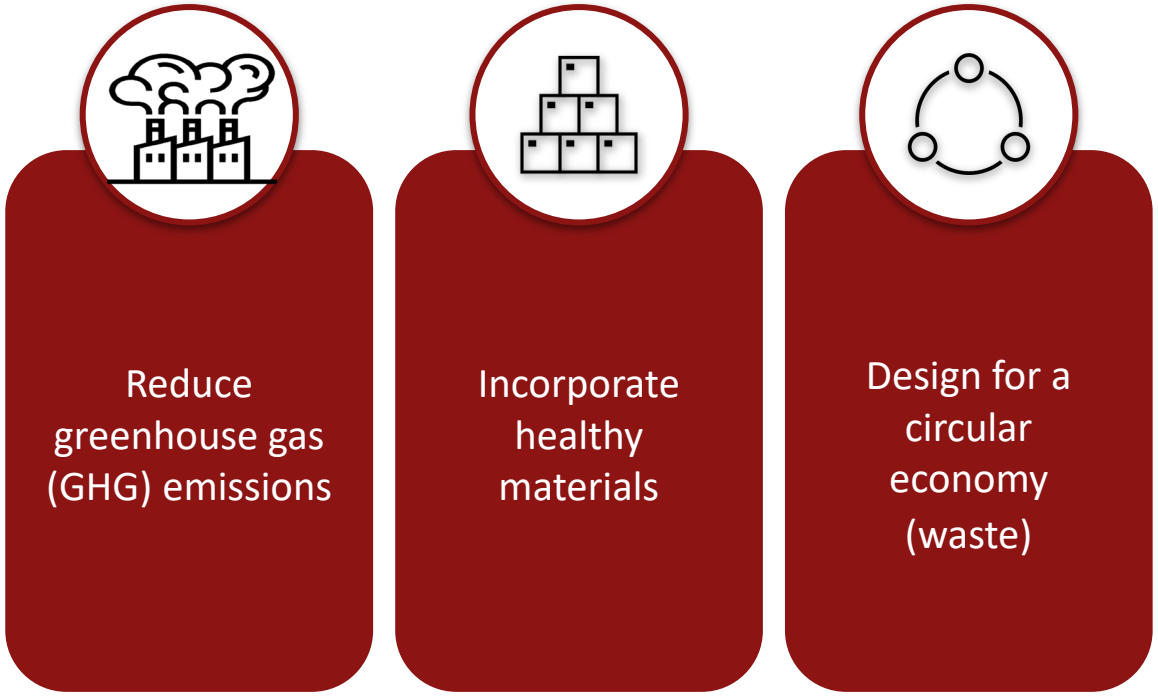
- Food Services
- Cleaning Supplies
- Medical Device Disinfectants
- Patient Equipment
- Waste Management

Facilities Management, Construction, & Interiors

- Logistics
- Interiors
- Construction Materials
- Office Supplies
- Maintenance, Repair, and Operations (MRO)

Sustainable Procurement Policy: Current Targets

The current focus of the SPP is on greenhouse gases (GHG), healthy materials, and circular economy. There are targets set for each principle.



Climate Excellence Standard
Establish GHG emissions targets and reduction plan

Vizient Environmentally Preferred Purchasing (EPP) Dashboard
Submit product-level environmental attributes

Supplier Level Requirement: Climate Excellence Standard

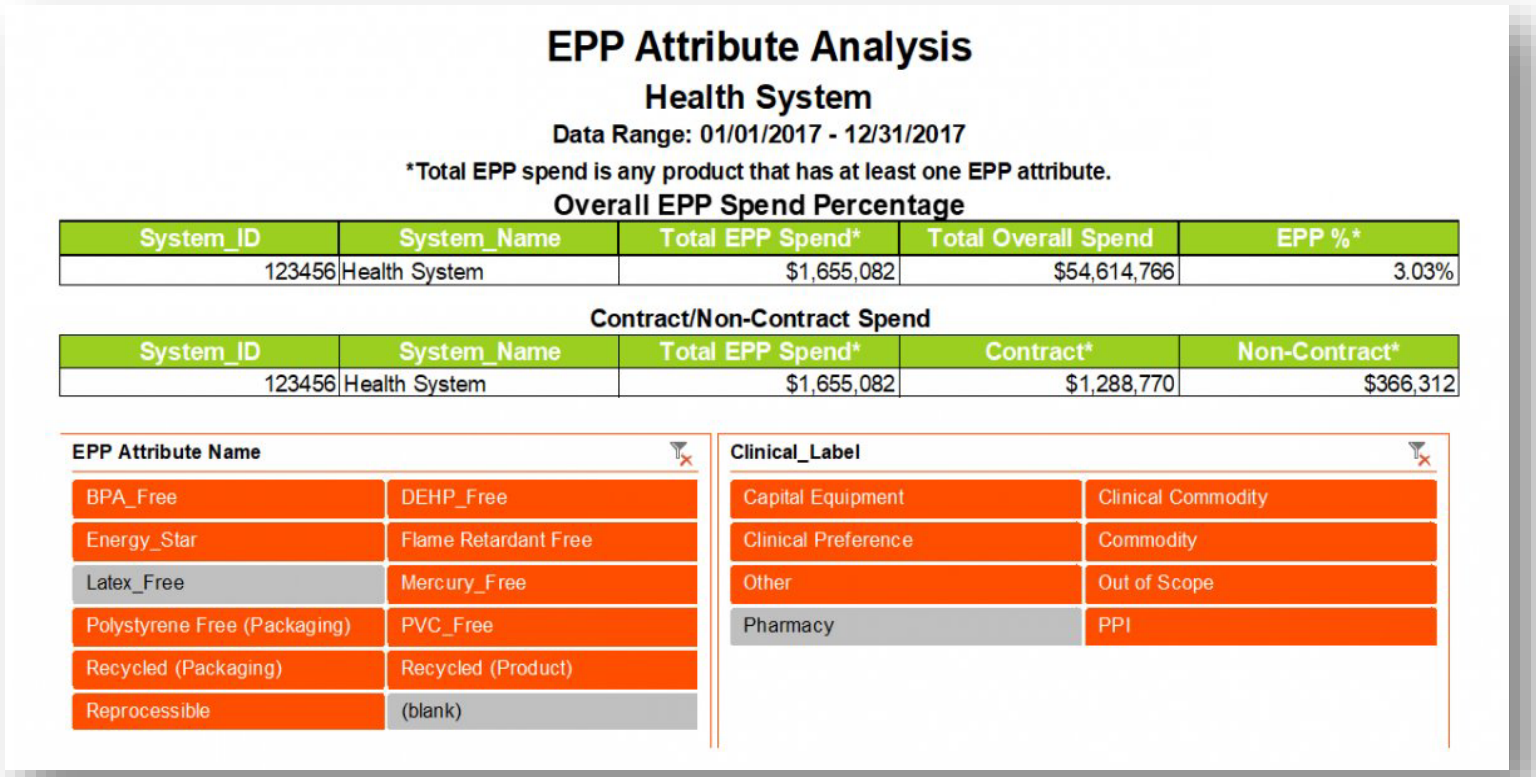
Suppliers must establish greenhouse gas (GHG) emissions targets and reduction plan aligned with the Climate Excellence Standard.

Phase 1 Requirements (2023 – 2025)

- Set emissions reduction targets approved by Science Based Targets Initiative (SBTi)
- Measure and disclose emissions
- Verify emissions data through third-party
- Minimize carbon offsets and plan to reduce operational emissions
- Encourage vendors to adopt science-based targets

Product Level Requirement: Vizient EPP Dashboard

Suppliers must submit environmental data to Vizient for inclusion in its dashboard.



EPP Attribute Analysis

Health System

Data Range: 01/01/2017 - 12/31/2017

*Total EPP spend is any product that has at least one EPP attribute.

Overall EPP Spend Percentage

System_ID	System_Name	Total EPP Spend*	Total Overall Spend	EPP %*
123456	Health System	$1,655,082	$54,614,766	3.03%

Contract/Non-Contract Spend

System_ID	System_Name	Total EPP Spend*	Contract*	Non-Contract*
123456	Health System	$1,655,082	$1,288,770	$366,312

EPP Attribute Name

BPA_Free	DEHP_Free
Energy_Star	Flame Retardant Free
Latex_Free	Mercury_Free
Polystyrene Free (Packaging)	PVC_Free
Recycled (Packaging)	Recycled (Product)
Reprocessible	(blank)

Clinical_Label

Capital Equipment	Clinical Commodity
Clinical Preference	Commodity
Other	Out of Scope
Pharmacy	PPI

- Vizient's Environmentally Preferred Purchasing (EPP) dashboard shows the spend on products with environmental attributes
- Validates purchasing items free of harmful chemicals, such as PVC, PFAS, antimicrobials, and flame retardants
- Stanford Medicine will use Vizient's EPP dashboard to choose products aligned with the Sustainable Procurement Policy

Industry Leadership in Sustainable Procurement

Stanford Medicine is an industry leader in sustainability as evidenced by leadership in numerous industry groups. These groups are advancing sustainable procurement across the sector.

Supplier Involvement:

Collective Healthcare Action to Reduce MedTech Emissions (CHARME)

Roadmap development to reduce MedTech supply chain emissions

National Academy of Medicine (NAM) Climate Action Collaborative

Webinar and roadmap development to help systems get started with sustainability

Vizient Environmental Sustainability Task Force

Vizient and select supplier collaboration to enhance environmental sustainability in healthcare through data standards development and transparency promotion

Healthcare Anchor Network (HAN)

Supports health systems on leveraging institutional assets to create economically and racially equitable local economies that sustain healthy communities

Health Care Climate Council (HCCC)

Establishment and promotion of healthcare's Climate Excellence Standard for suppliers

Vizient Environmental Advisory Council (EAC)

Offers guidance to Vizient on sustainability tools for suppliers and providers

Sustainable Procurement Policy: Food Services

The following sustainability criteria apply to food purchases as outlined in the SPP.

- Fresh, seasonal, and local
- Climate-resilient
- Whole, minimally processed foods
- Less meat, better meat
  - Antibiotic and hormone free
  - Grass fed / Free range
  - USDA Organic
  - Non-GMO Certified
- Cage free eggs and rbGH-free / rBST-free dairy
- Seafood with Marine Stewardship Council Certification

Stanford Health Care Food Services: Sustainability Impact

In 2013, Food Services began a transformation to offer healthier and more sustainable food options, prioritizing both patient nutrition and environmental impact.

Current State (FY24):

- **89%** Produce spend is local and/or sustainable
- **97%** Sustainable seafood purchases
- **92%** Antibiotic-free meat purchases
- **100%** Reusable or compostable cafeteria service ware
- **15.7K** Meals delivered to local nonprofits from January to August 2024, diverting edible leftovers

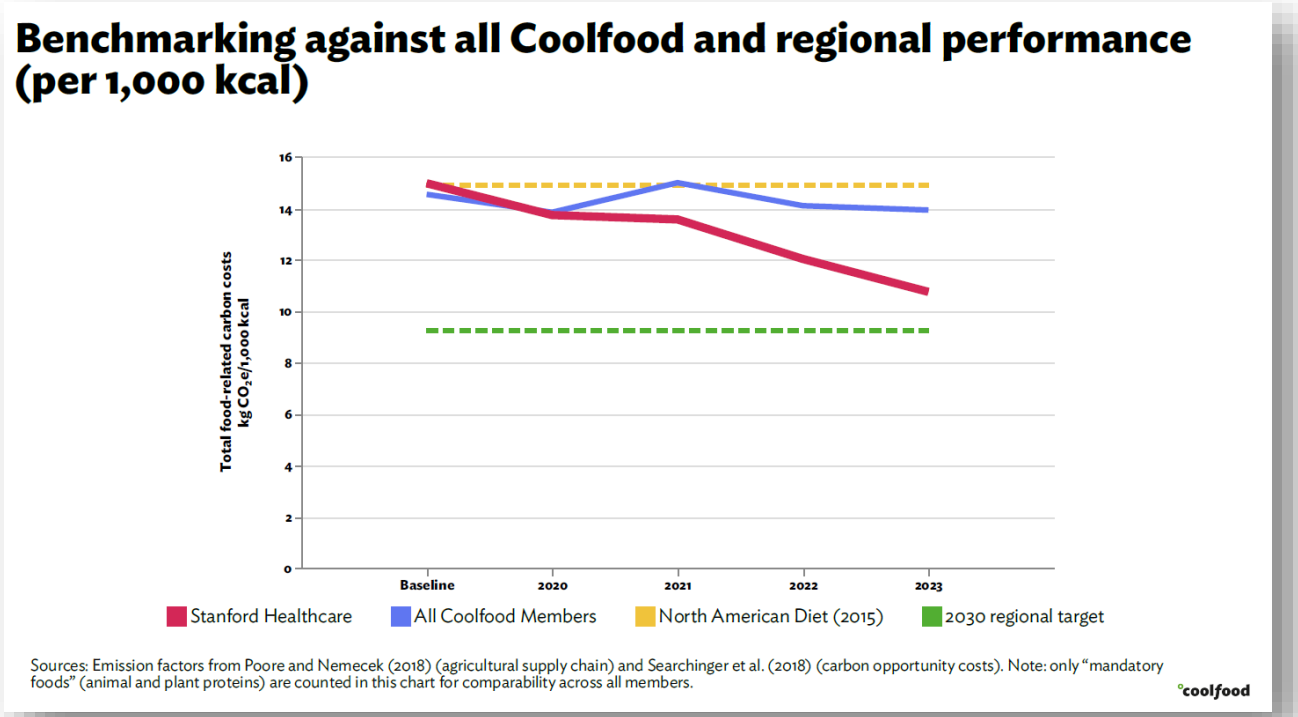
SHC CoolFood Pledge

Led by the World Resources Institute, the CoolFood Pledge aims to cut food-related emissions 25% by 2030 through meat reduction and plant-forward meals.

Food as Medicine
- Shifted the center of the plate: emphasizing healthy vegetables and grains
- Local sourcing and meal planning centered around seasonal produce

Less Meat, Better Meat
- Reducing total meat purchases
- Sourcing antibiotic and hormone-free meats, poultry, and dairy

Food Waste Prevention and Reduction
- Surplus ingredient recovery for reuse or donation



- Emissions per 1,000 kcal (or "per plate") declined by 41% between 2019 and 2023

Food Services: Food Waste Reduction

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By minimizing food waste, Stanford Health Care is reducing its environmental impact and addressing food insecurity through four key initiatives.

First In, First Out (FIFO)

Food storage and organization method

Reduces food waste by ensuring that food is used prior to its best-by or expiration date

Maximizes freshness and helps minimize the amount of time food spends in storage

Tracking Food Waste

Pre-consumer food waste is tracked daily against targets and is shared with frontline staff during huddles to engage the entire team around waste prevention.

Menu Planning & Forecasting

Reduces food waste by limiting over purchasing and overproduction of food

COPIA

Food Recovery

Reduces food waste and combats food insecurity by redistributing surplus food to the local community.

IN 2022, STANFORD HEALTH CARE'S IMPACT THROUGH FOOD RECOVERY WAS...

880,000 gallons of water saved

39,700 pounds of CO_2 emissions diverted

8,890 pounds of perfectly edible food donated

7,400 meals delivered to local non-profits

Food Services: Design For Circular Economy

Stanford Health Care Food Services provides reusable takeout containers in place of disposables.

- Provided and serviced by a local green business, Dispatch Goods
- When returned, the containers are washed and redeployed for up to **100 uses**
- Reusable takeout containers use **1/5 of the water** and emit **1/3 of the greenhouse gases** of disposable containers
- Reusable containers improve waste sorting in the cafeteria
- **77% return rate** for the reusable containers

Questions?

Contact

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