

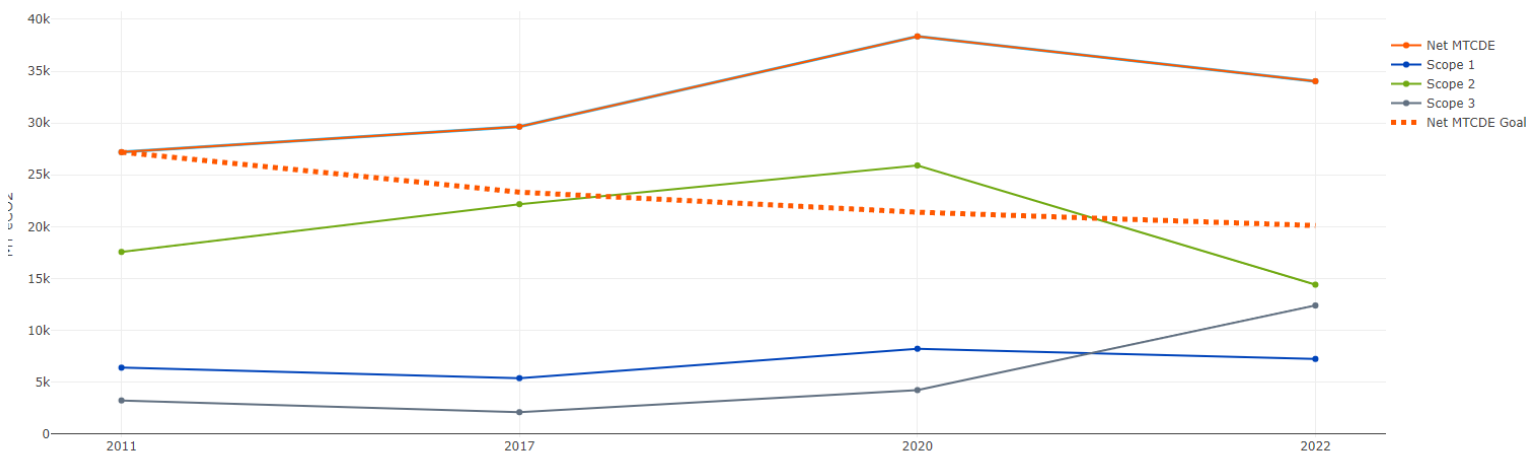
# BUTLER UNIVERSITY GREENHOUSE GAS (GHG) REPORT 2021-22

Greenhouse gasses are released into the environment through a variety of human activities and contribute to global climate change. All types of GHG emissions are quantified through metric tons carbon dioxide equivalent or MTCO<sub>2</sub>e.

## GHG EMISSIONS ARE MEASURED THROUGH THREE SCOPES

	Definition	At Butler
Scope 1	Direct emissions that occur on-site and controlled or owned by the organization	Natural gas, fuel for campus vehicle fleet, fertilizer, refrigerants and chemicals
Scope 2	Indirect emissions from utilities	Purchased electricity
Scope 3	Indirect emissions from items not owned by organization, but that directly impacts via value chain	Commuting, air travel for study abroad, conferences, and athletics, and trash/waste NEW as of 2022: paper, wastewater, and campus dining

## BUTLER'S GHG RESULTS



## BUTLER'S GHG REDUCTION COMMITMENTS

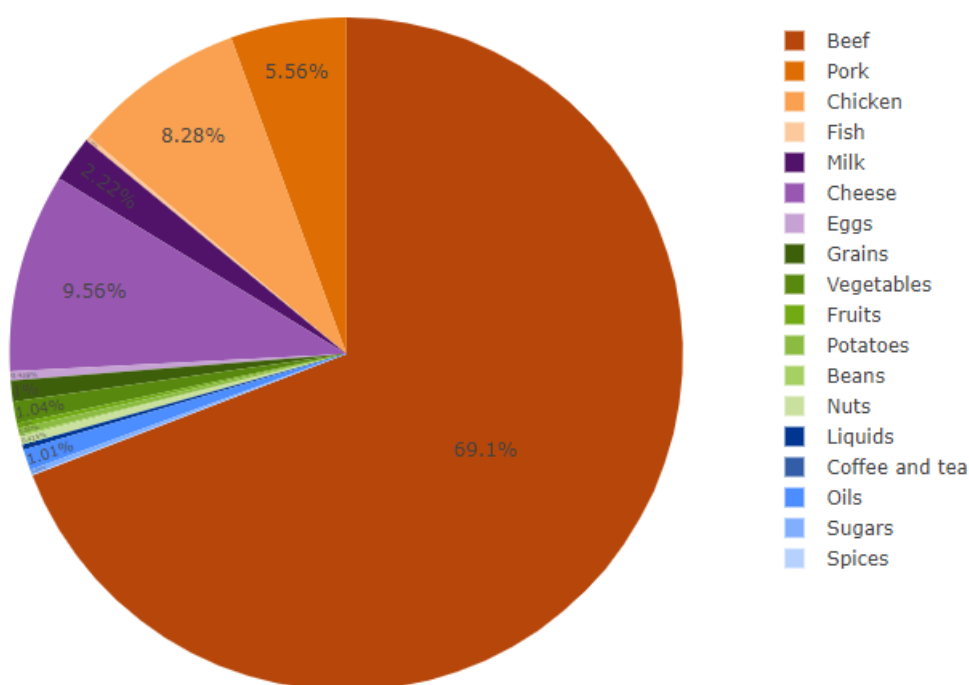
In 2012, President Danko signed the Second Nature President's Carbon Commitment which states Butler will reduce GHG:

- 15% by 2020
- 45% by 2030
- 100% carbon neutrality by 2050

## GHG ANALYSIS

- Butler saw a 10% decrease in scope 2, electric usage, green line
- Scope 3 increased due to more in-depth data collection including more sources, grey line
- Butler saw 1% decrease in total campus GHG emissions

## CARBON FOOTPRINT OF CAMPUS DINING



- The 2021-2022 GHG analysis is the first to calculate the impact of food, scope 3
- Over 75% of GHG emissions from campus dining comes from use of animal products (red, orange, and purple)

## RECOMMENDATIONS

- Hire an energy consultant to assess campus infrastructure and recommend energy efficiency retrofits and upgrades to reduce scope 1 & 2
- Explore renewable energy alternatives to fossil fuels to reduce scope 1 & 2
- Reduce animal products in campus dining to reduce scope 3
- Swap the gas fueled campus vehicle fleet to electric to reduce scope 3
- Mitigate impact from campus air travel with offsets from trusted source to reduce scope 3
- Reduce commuting via single occupancy vehicles to reduce scope 3

For more information about Butler's GHG from this or previous years:  
<https://unhsimap.org/public/institution/1864>