



THE UNIVERSITY  
OF ARIZONA

# Sustainability & Climate Action Plan

Faculty Senate

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# About the Office of Sustainability

- We advance solutions that are **environmentally sound, socially just, and economically viable**
- We operate the largest sustainability programs on campus and have received **national recognition**
- We procured **100% renewable energy** from the grid for the Tucson campus and are leading the Action Plan process



# What Is An Action Plan, and Why Is It Helpful?

- The Action Plan will be a **living planning tool** that provides a **strategic framework** for adaptation and mitigation actions around climate and sustainability
- The Action Plan will build resilience, **reduce** exposure to risk and costs, **attract and retain** students, staff, and faculty, and **strengthen** community partnerships



# Where Do We Stand?

- Each one of our **ABOR-defined peers**, as well as Arizona State University and Northern Arizona University, **has an Action Plan**
- We lag approximately **10 years behind** in creating a formal Action Plan
- Despite pandemic-driven emissions reductions, we are on track to see a **return to “business as usual”** in most areas



# Business As Usual Is Not An Option

- The recently released report by the Intergovernmental Panel on Climate Change concludes that we face a “**rapidly closing window of opportunity** to secure a livable and sustainable future for all”



# What Are Scope Emissions?

## Scope 1 Emissions



Direct Emissions

Owned generation, vehicle fleet, etc.

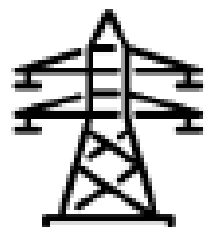


## Scope 2 Emissions



Indirect Emissions

Purchased electricity, heating, cooling, etc.



## Scope 3 Emissions

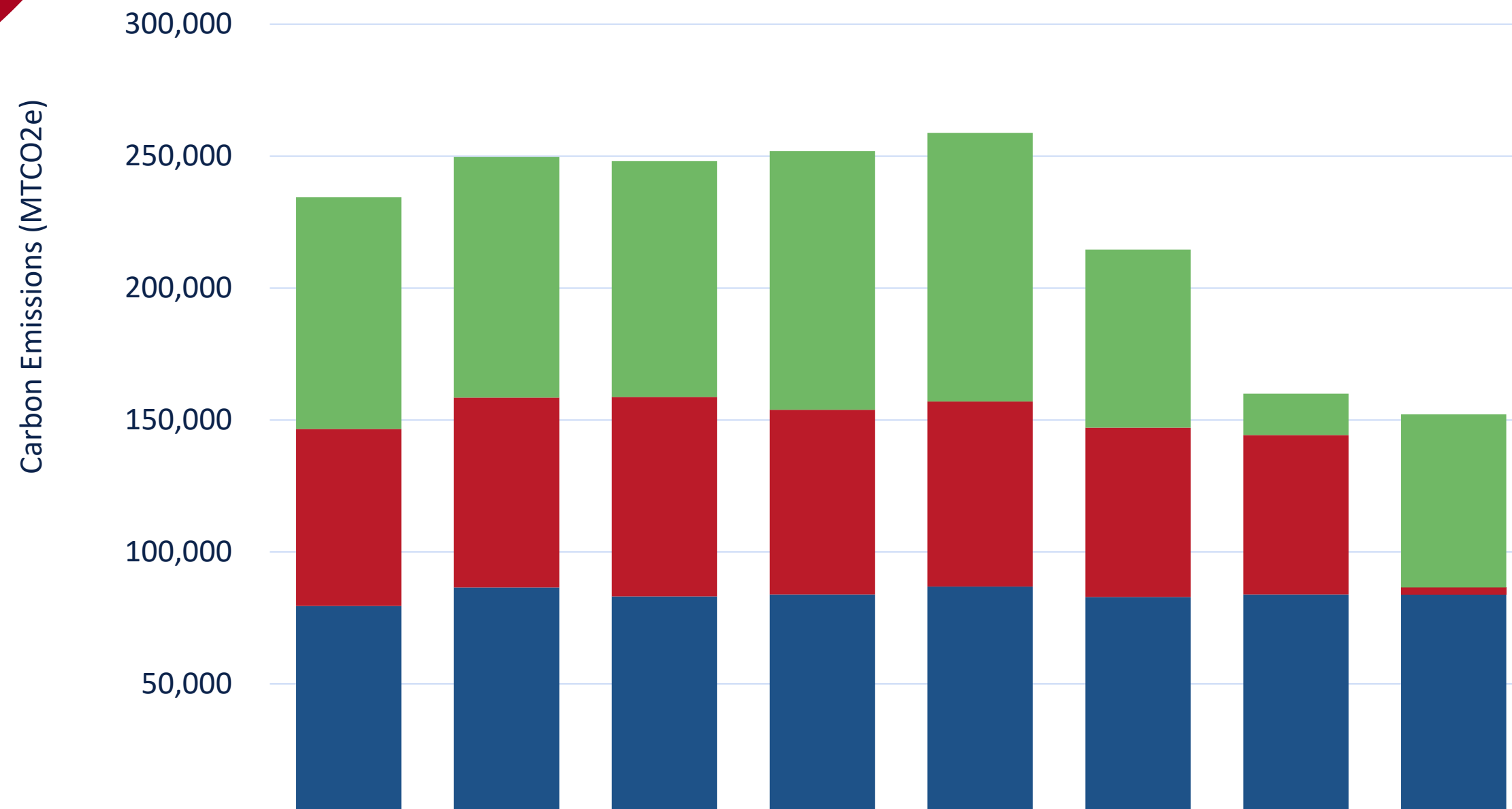


Other Indirect Emissions

Air travel, commuting, waste disposal, wastewater treatment, purchasing, etc.

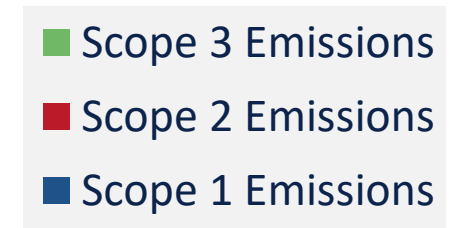


# Tucson Campus Greenhouse Gases By Fiscal Year



## By Type

- Scope 1 Emissions: Direct campus operations
- Scope 2 Emissions: Purchased utilities
- Scope 3 Emissions: All other emissions



	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22
Scope 3 Emissions	87,772	91,156	89,298	98,020	101,755	67,542	15,681	65,595
Scope 2 Emissions	67,068	71,957	75,603	69,996	70,094	64,184	60,402	2,678
Scope 1 Emissions	79,526	86,542	83,150	83,906	86,935	82,904	83,902	83,902



# Process Overview

**VISION +  
CRITERIA  
SETTING**

**CONSIDER  
INITIATIVES AND  
TECHNOLOGIES**

**DEVELOP A  
STRATEGY**

**ACTION PLAN  
ROADMAP**

## Strategic Alignment

Presidential  
Commitment

Mission &  
Purpose

Strategic Pillars

STARS

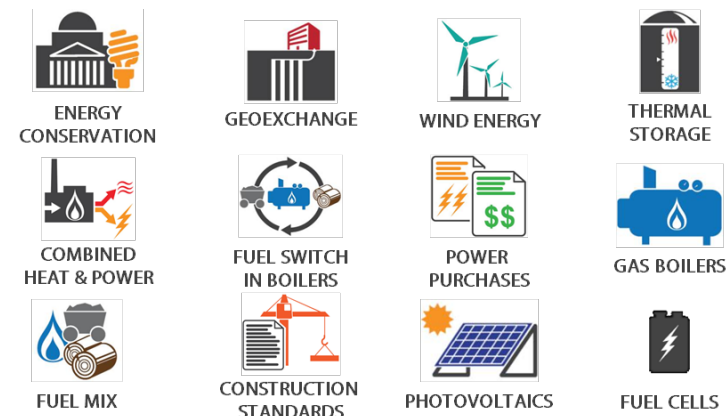
## Financial + Operating Fundamentals

Annual Budget

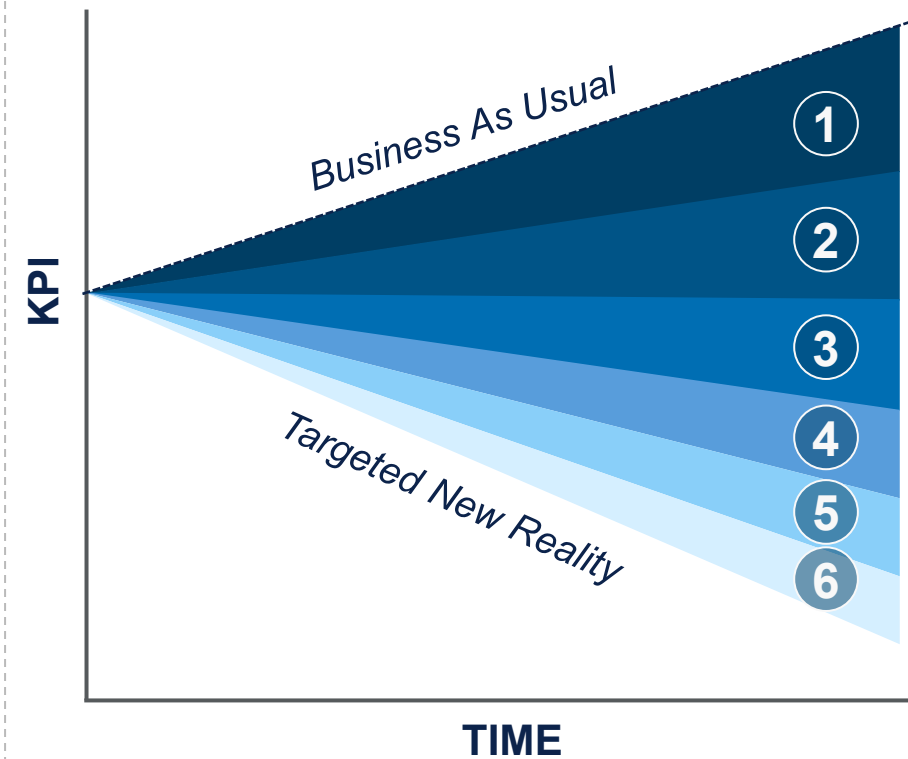
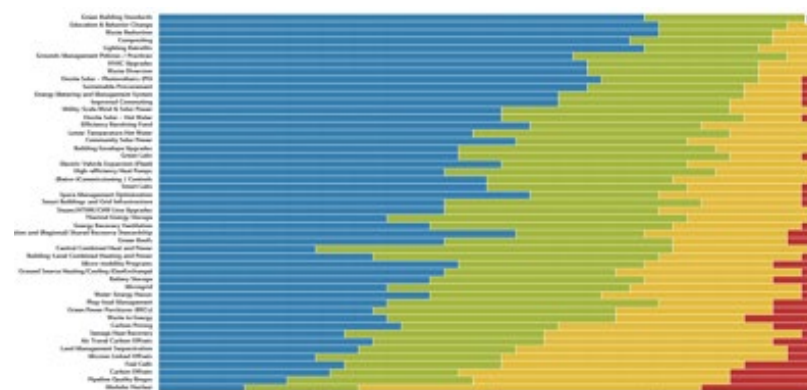
Required  
Capital

Greenhouse  
Gas Emissions

Second Nature  
Pro Bono  
Outcomes



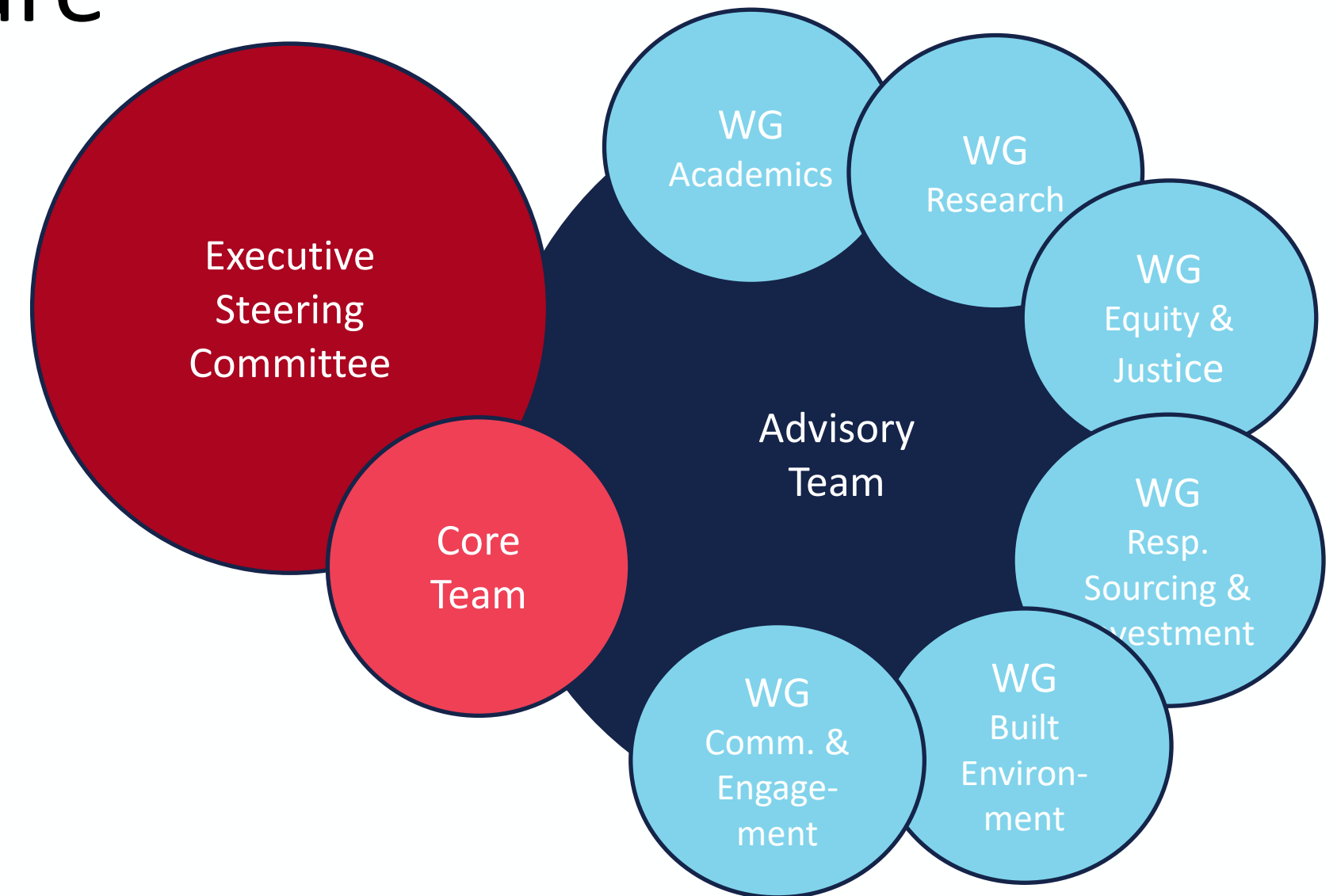
+ Many More



<b>1 STRATEGIC ENERGY MANAGEMENT (SEM)</b>	1A: SEM	1B: SEM 1B	1C: SEM
	Continue Existing Program (15% Energy Savings Target)	Program Expansion (40% Energy Savings Target)	Building Design and Operating Standards
<b>2 RENEWABLE ENERGY</b>	2A: Off-Site		2B: On-site
	TEP Clean Energy Agreement		4.8 MW* Parking + Rooftops Electric Vehicle (EV) Infrastructure
<b>3 CAMPUS ENERGY TRANSITION</b>	3A: Building Conversions		3B: Energy Network
	Deep Energy Retrofits, Lower-temp Compatibility		Microgrid, Heat-sharing Network
	3C: Energy Sources		Heat Pumps, Energy Recovery & Storage
<b>4 SCOPE 3 MITIGATION</b>	4A: Commuting	4B: Air Travel	4C: Waste Management
	Commuter Optimization and Electrification	Air Travel Offsets, Virtual Meetings	Reduction, Diversion and Composting
<b>5 RESIDUAL</b>	Residual Decarbonization		
	Voluntary, Mission-linked and Compliance Offsets		

# Action Plan Engagement Structure

- **Core Team**
  - Brailsford & Dunlavey and UArizona Team
  - Weekly to Bi-Weekly Meetings
  - General Oversight and Coordination
- **Executive Steering Committee**
  - Executive Leadership
  - Quarterly Touchpoint
  - Review Recommendations
- **Advisory Team**
  - High-level, Multi-Disciplinary Stakeholders and Working Group Leads
  - Monthly to Bi-Monthly Meetings
  - Make Recommendations to Executive Steering Committee
  - Provide Feedback to Working Groups & Consultants



- **Working Groups**
  - Key Stakeholders and Subject Matter Experts
  - Regular Meetings
  - Topical Deep Dives
  - Present Findings to Advisory Team



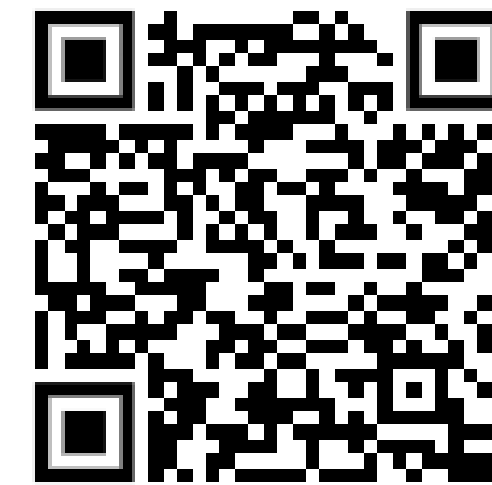
## How You Can Help

- We need your support to reach the right folks and **engage** as many stakeholders as possible. Please tell colleagues and students about the Action Plan.
- We want to make sure all stakeholder groups are well **represented** in the Action Plan engagement structure, incl. shared governance representatives.
- Once priority areas for the Action Plan and, particularly, their **academic and research implications** have been identified, we hope to return to the Faculty Senate for feedback and recommendations.
- We welcome **feedback** and **follow-up conversations!**



# Upcoming Engagement Opportunities

- Please review all opportunities at [sustainability.arizona.edu/climate-action/](https://sustainability.arizona.edu/climate-action/)
- **Stay in the loop** on Action Plan Stakeholder Workshops
- Complete the Community Survey to **provide input** for the Action Plan



- **Closes tomorrow!**

# Questions?

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