

Council Members Present (via Zoom):

Carlo Colella — Vice President & Chief Administrative Officer (Chair)
Scott Lupin — Assoc. Director, Environmental Safety, Sustainability & Risk; Director, Office of Sustainability
Michael Glowacki — Interim Chief of Staff & Assistant to the Vice President, Division of Student Affairs
Maureen Kotlas — Executive Director, Environmental Safety, Sustainability & Risk
Bryan Quinn — Director of Technical Operation, Department of Electrical & Computer Engineering
Eric Wachsman — Director, MD Energy Innovation Institute; Professor, Materials Science & Engineering
Stephanie Lansing — Professor, Environmental Science & Technology
Tom McMullen — Assistant to the Provost
Mark Addy — Executive Director, Systems and Networking
Sabrina LaBold — Undergraduate Student Representative
Marie Panday — Graduate Student Representative
Meeting start time: 10:00am

Meeting Highlights

Welcome and Introduction of New and Returning Members

Carlo Colella welcomed returning and new Council Members including Graduate Student Representative Marie Panday, Undergraduate Student Representative Sabrina LaBold, and re-appointed Faculty Representatives Giovanni Baiocchi and Jennifer Hadden. Tom McMullen will now represent the Division of Academic Affairs and Mark Addy will represent the Division of IT.

SustainableUMD Annual Progress Report & Review of AASHE STARS 2022 Submission & Rating – E. Hightower

The Office of Sustainability presented on annual progress in calendar year 2021 (Appendix A). Notable updates include:

- The new University Strategic Plan, *Fearlessly Forward In Pursuit of Excellence and Impact for the Public Good*, includes sustainability as a major theme.
- 55% reduction in net greenhouse gas emissions compared to 2005 baseline
- UMD can now separate greenhouse gas emissions by campus and report on the past decade of campus forest carbon sequestration, storage, and emissions.
- 16% of campus built to LEED Silver or equivalent, 68% institutional diversion rate for waste, 163 stormwater BMPs, and 34% reduction in per plate food emissions (through the Cool Food Pledge)
- Over 18,000 students reached over the history of the Green Terp and Green Chapter programs

The presentation also included a report on the recently completed AASHE STARS (Association for the Advancement of Sustainability in Higher Education Sustainability Tracking, Assessment, and Rating System) Report. The Office of Sustainability completed the report in February 2022 and received a Gold rating. The University was recognized by AASHE in the 2022 Sustainable Campus Index for Waste (4th) and Research (tie

for 1st). The presentation discussed the progress from the previous report, pathways to a platinum ranking, and benchmarking against peer and platinum institutions.

Post-presentation discussion included questions about the forest carbon sequestration and storage analysis, progress in the research section of the AASHE STARS Report, and the implications of reporting green building certification within AASHE STARS.

An Overview of Climate Elements of the Inflation Reduction Act –S. DeLeon

Sally DeLeon presented on the impacts of the Inflation Reduction Act on campus, including future available funding for sustainability efforts. The report included future programs that the university should consider during current planning processes. After the brief presentation, Council Members discussed the implications for renewable energy credit (REC) versus carbon offset purchases, improving server sustainability and other small campus programs, and the impact of IRA and funding on the NextGen Energy Program (Appendix B).

University Sustainability Fund Annual Report – S. DeLeon

In FY22, the Sustainability Fund awarded eight grants totaling \$215,000. The presentation discussed the fund increase from \$12 to \$18 between FY21 and FY22 and the scheduled fee increases over the next two years. This will increase funds available to allocate in 2022-2023.

Open Forum

Stephanie Lansing asked about the Council supporting efforts for sustainable transportation including increasing the number of buses available for Shuttle-UM. Another example provided was increasing support of biking incentives and how we are using the data from the incentives program to support increasing programming. The Office of Sustainability and DOTS partner to promote including transportation data in our metric reports.

Eric Wachsman also asked questions about the undergraduate commuter offsetting program. The Undergraduate Student Association (SGA) continues to fund the program through the Sustainability Fund but Wachsman suggested there may be alternative uses for that fund allocation.

Adjourn 12:00pm

Appendices:

Appendix A: SustainableUMD Annual Progress Report

Appendix B: Inflation Reduction Act Learning Series Slides

SustainableUMD Progress Summary

Emily Hightower

Oct. 14, 2022



SUSTAINABILITY COUNCIL GOAL FRAMEWORK



Carbon Neutrality

100% carbon neutral by 2025 compared to 2005, site energy conservation measures, expansion of renewable sources



Education for Sustainability

Formal and informal opportunities for students to gain knowledge/skills and to collaborate with staff/faculty on solutions



Local and Global Impact

Partner to further sustainability in Maryland and beyond, encourage sustainable procurement at UMD, support green dining programs



Smart Growth

Alternative transportation, environmental stewardship in landscape, high performance building and utility design



Sustainable Water Use

Reduce purchases of potable water, expand harvesting and reuse, responsibly manage stormwater to protect the Chesapeake Bay

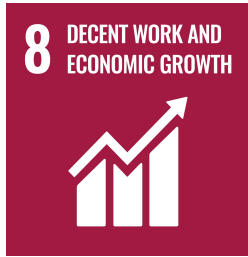


Waste Minimization

Divert 75% from the landfill, reduce solid waste generated per person 1% annually, increase cleaning and waste sorting



UNITED NATIONS SUSTAINABLE DEVELOPMENT GOALS



SUSTAINABILITY IN *FEARLESSLY FORWARD*

In February 2022, President Pines announced the new University Strategic Plan, *Fearlessly Forward In Pursuit of Excellence and Impact for the Public Good: The University of Maryland Strategic Plan*. The Strategic Plan is divided into four principles:

We reimagine learning

We take on humanities grand challenges

We partner to advance the public good

We invest in people and communities

Each principle defines three goal areas. Each goal area includes multiple objectives that define the goal in more detail and shape expected actions to meet the goals.

Sustainability is a major theme in this strategic plan, as seen in the principles, goals, and objectives highlighted to follow.



SUSTAINABILITY IN *FEARLESSLY FORWARD*

01

We reimagine learning

UMD plans to reimagine learning and teaching — this includes developing “the potential of our campus as a **green**, connected living-learning environment that is open and accessible to the global community” and supporting “indoor and outdoor spaces on campus to advance learning, inspire discovery, and activate creativity.”



We take on humanities grand challenges

UMD defines “humanity’s grand challenges” as “climate change, social injustice, global health, education disparities, poverty, and threats to our democracy.” All objectives and initiatives within this principle are inherently sustainable. The University’s **Climate Action Plan** is listed as the first strategic initiative for accomplishing this principle.



SUSTAINABILITY IN *FEARLESSLY FORWARD*

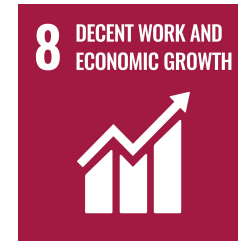
We partner to advance the public good

"Our future is tied to and interconnected with our local, state, national, and international partners. We will create and sustain partnerships that allow our research to have impact locally and globally, our education to prepare students for civic engagement and impact, and our service to create solutions for a more **equitable, sustainable, and resilient world.**"



We invest in people and communities

UMD aims to lead the nation in living a commitment to **equity, diversity and inclusion** in all that we do by investing in “people, their well-being and advancement, and the conditions that support their ability to fully participate and thrive in our community, state and world.” Objectives specifically address sustainability (equity, financial-security, housing, etc.)



2021 TIMELINE: RETURNING TO NORMAL OPERATIONS

January 2021: Some students return to campus for the Spring 2021 semester

April 2021: Research spaces open to 75% occupancy

May 2021: Domestic air travel within guidelines resumes

June 2021: Study Abroad announces in-person Fall opportunities will continue

August 2021: Employees required to return to campus vaccinated (telework/hybrid options available)

September 2021: Students return to campus for Fall 2021 semester

...

May 2022: All travel restrictions lifted



SUSTAINABILITY COUNCIL GOAL FRAMEWORK

The SustainableUMD Progress Hub dashboards are up-to-date with 2021 data.



Carbon Neutrality

100% renewable purchased electricity
38% of electricity generated at CHP
20,558 MTCO₂e of carbon offsets (12%)



Education for Sustainability

26.5% of courses include sustainability
350 sustainability minor enrollments
2,072 students certified Green Terp



Local and Global Impact

34% emissions reduction per plate (2017)
54% cities certified Sustainable MD
17,856 lbs produce from Terp Farm



Smart Growth

9.47 kCO₂e/gsf emissions intensity
16% of campus built as LEED Silver
14 years as Tree Campus Higher Ed



Sustainable Water Use

24% reduction in water consumption (2006)
886 acres of permeable surfaces
163 stormwater management facilities



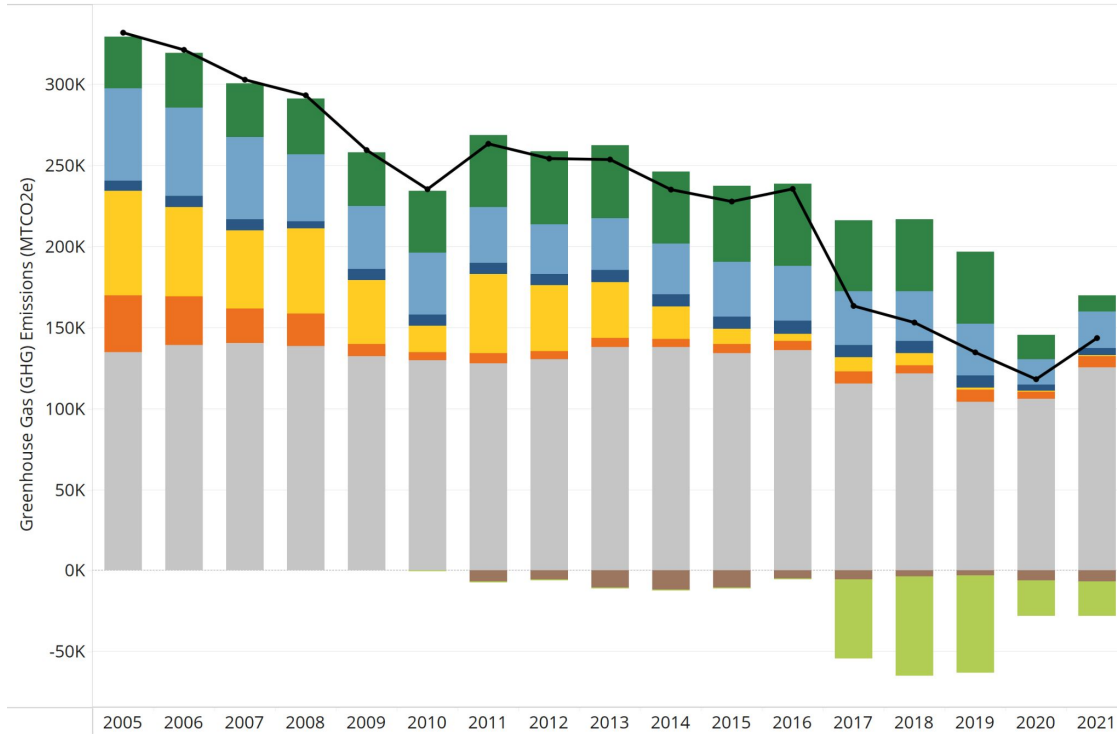
Waste Minimization

68% institutional diversion rate
50% individual recycling rate
1,247 tons of compost generated



University of Maryland Greenhouse Gas Emissions

Metric Tons of Carbon Dioxide Equivalent (MTCO₂e)



149,033 MTCO₂e

net greenhouse gas emissions

54.8% reduction

compared to **2005** baseline (**Net**)

21% increase

compared to **2020** data (**Net**)

Net Greenhouse Gas Emissions

- Air Travel: Directly Financed and Study Abroad
- Faculty, Staff and Student Commuting
- UMD Fleet Vehicles
- Purchased Electricity
- Agriculture (Animals and Fertilizer), Solid Waste, and Refrigerants/Chemicals
- Combined Heat and Power Plant (CHP) and Other Stationary Sources
- Verified Carbon Offsets
- Non-Additional Sequestration

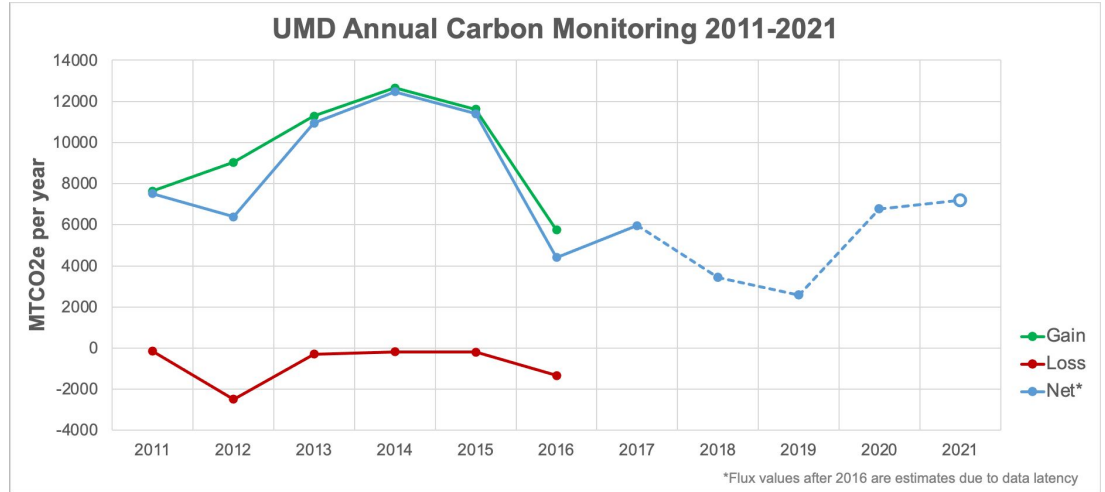
INCLUDING ESTIMATES OF CAMPUS FOREST CARBON

In 2021, student researchers in the Department of Geography calculated estimates of campus forest carbon sequestration for the university's greenhouse gas emissions inventory. The students found that the university's forests are a **carbon sink**, absorbing more carbon annually than that which is lost due to deforestation.

UMD is the **first university to use remote sensing data to calculate forest carbon flux**. The methodology is consistent with the State of Maryland's emissions inventory.

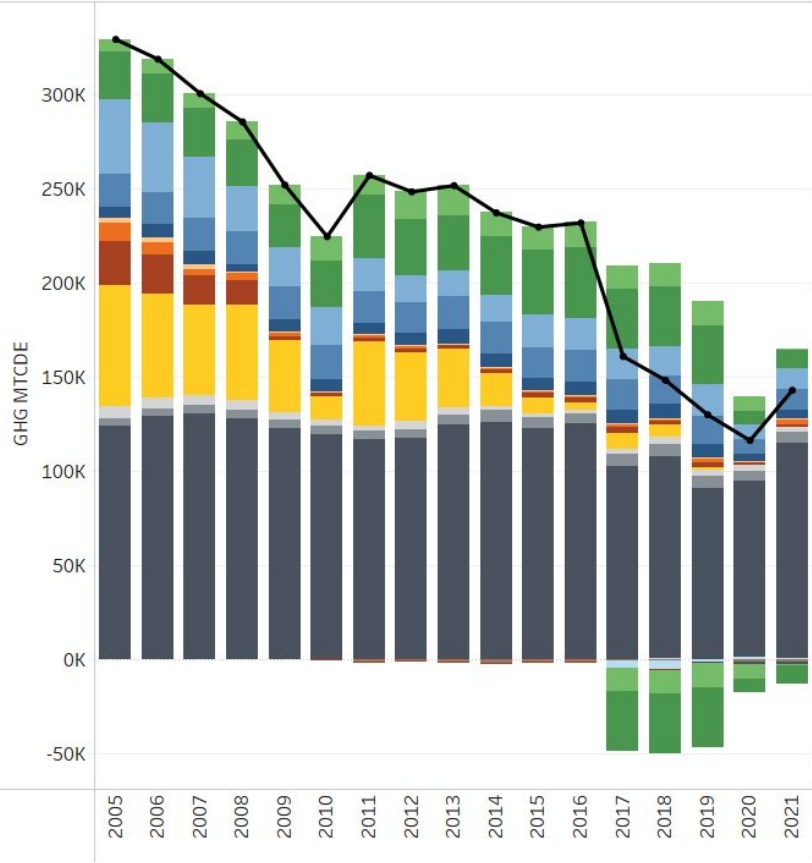
7,184 MTCO₂e

**SEQUESTERED ANNUALLY
BY FORESTS (ON AVERAGE)**

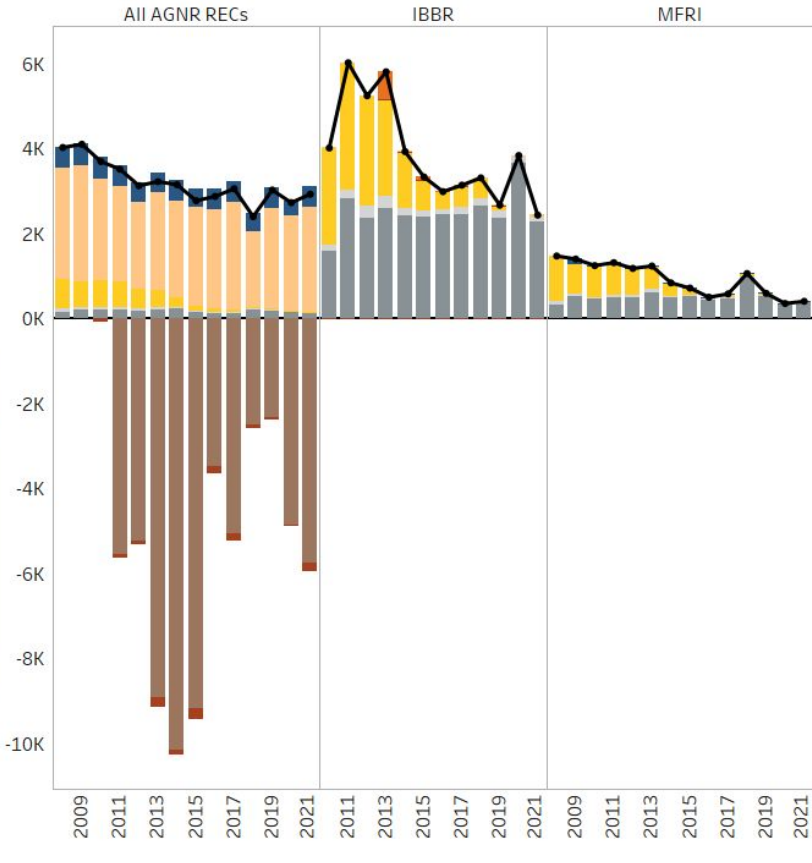


AUXILIARY CAMPUS GHG EMISSIONS REPORTS

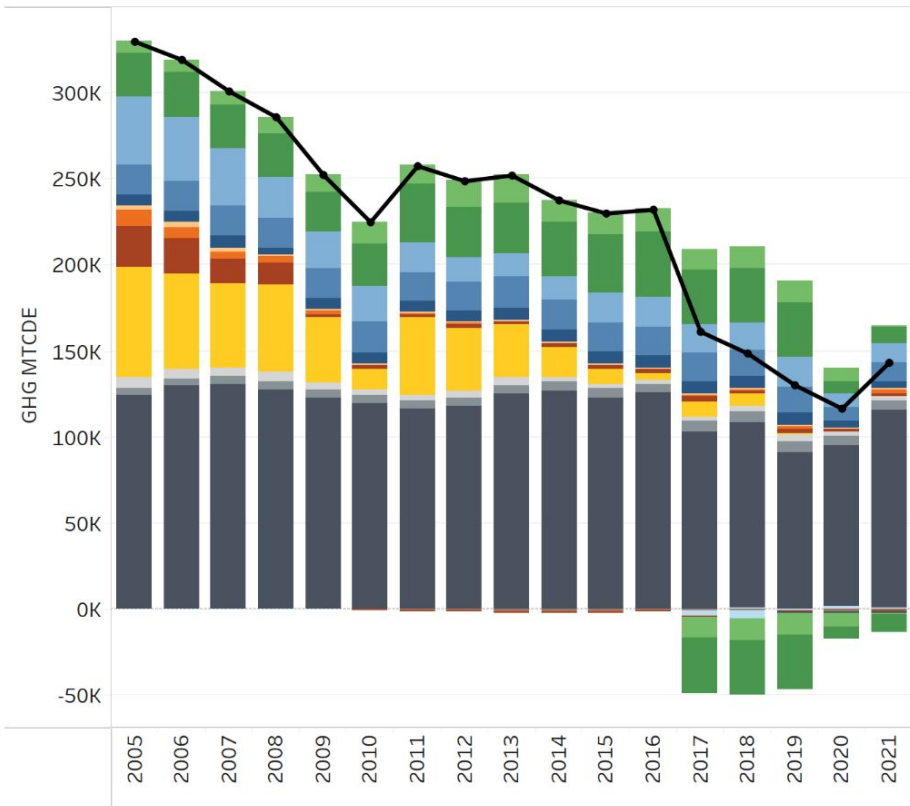
Main Campus, College Park



Auxiliary Campuses



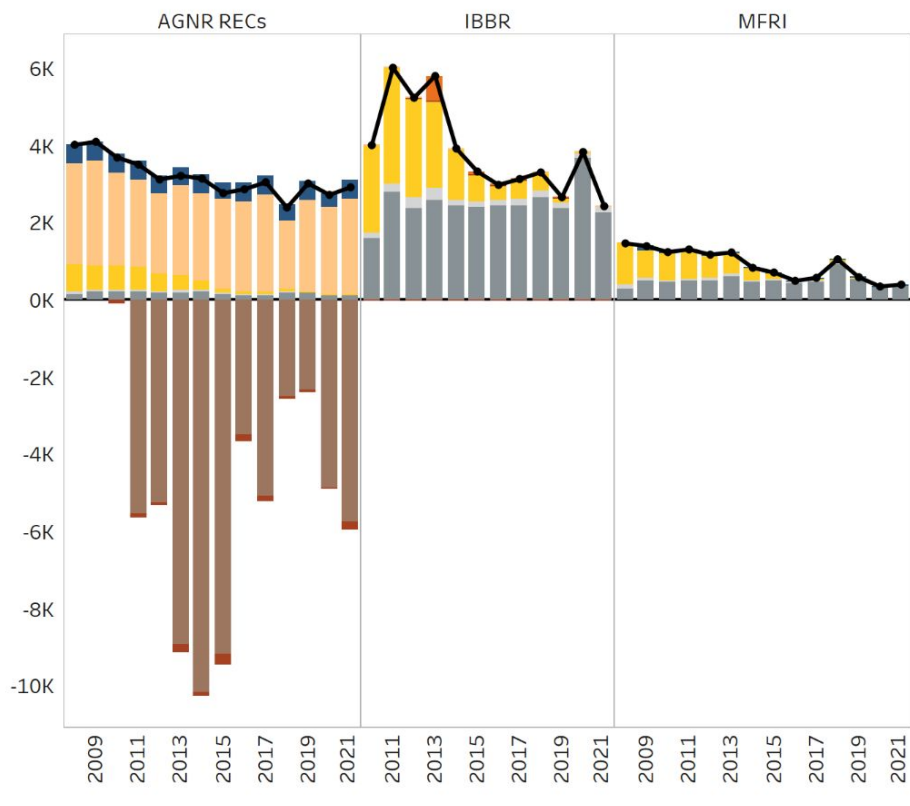
Main Campus, College Park



Emissions Source

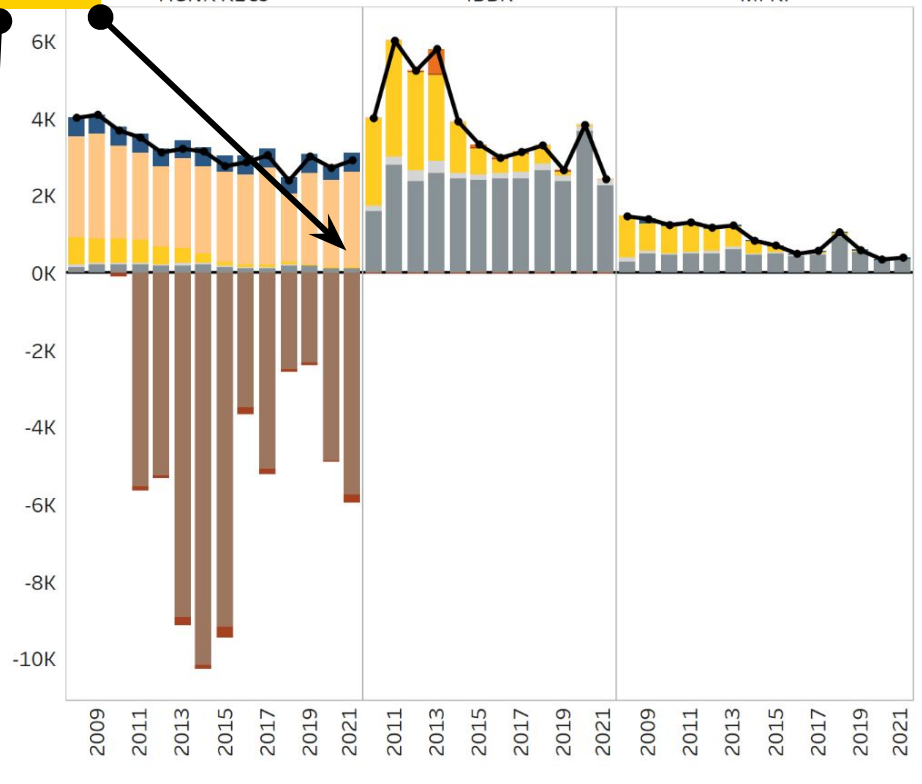
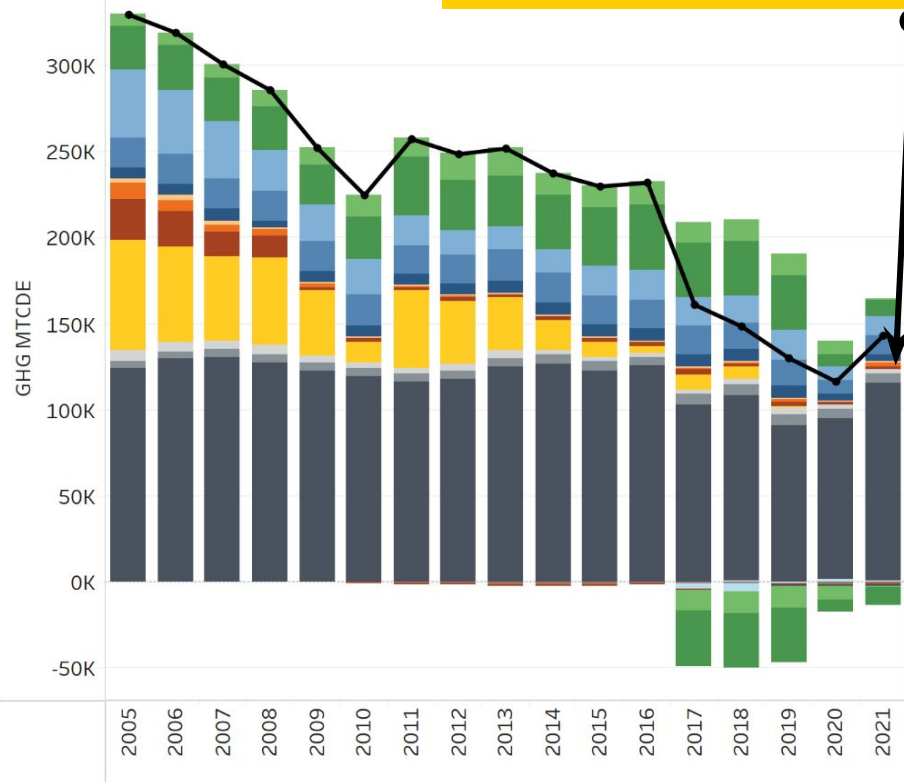
- Study Abroad Air Travel
- Faculty Commuting
- Solid Waste
- Co-Gen Fuel
- Carbon Neutral New Development
- Directly Financed Air Travel
- Direct Transportation
- Purchased Electricity
- Air Travel Offsets
- Compost Offset
- Student Commuting
- Fertilizer & Animals
- T&D Losses
- Study Abroad Offsets
- Additional Offsets
- Staff Commuting
- Refrigerants & Chemicals
- Other Stationary Fuel
- Undergrad Commuting Offsets
- Non-Additional Sequestration

Auxiliary Campuses



- Co-Gen Fuel
- Air Travel Offsets
- Carbon Neutral New Development
- Undergrad Commuting Offsets
- Non-Additional Sequestration

2021 Fertilizer at College Park: 54 MTCO₂e
 2021 Fertilizer at AGNR RECs: 2,487 MTCO₂e

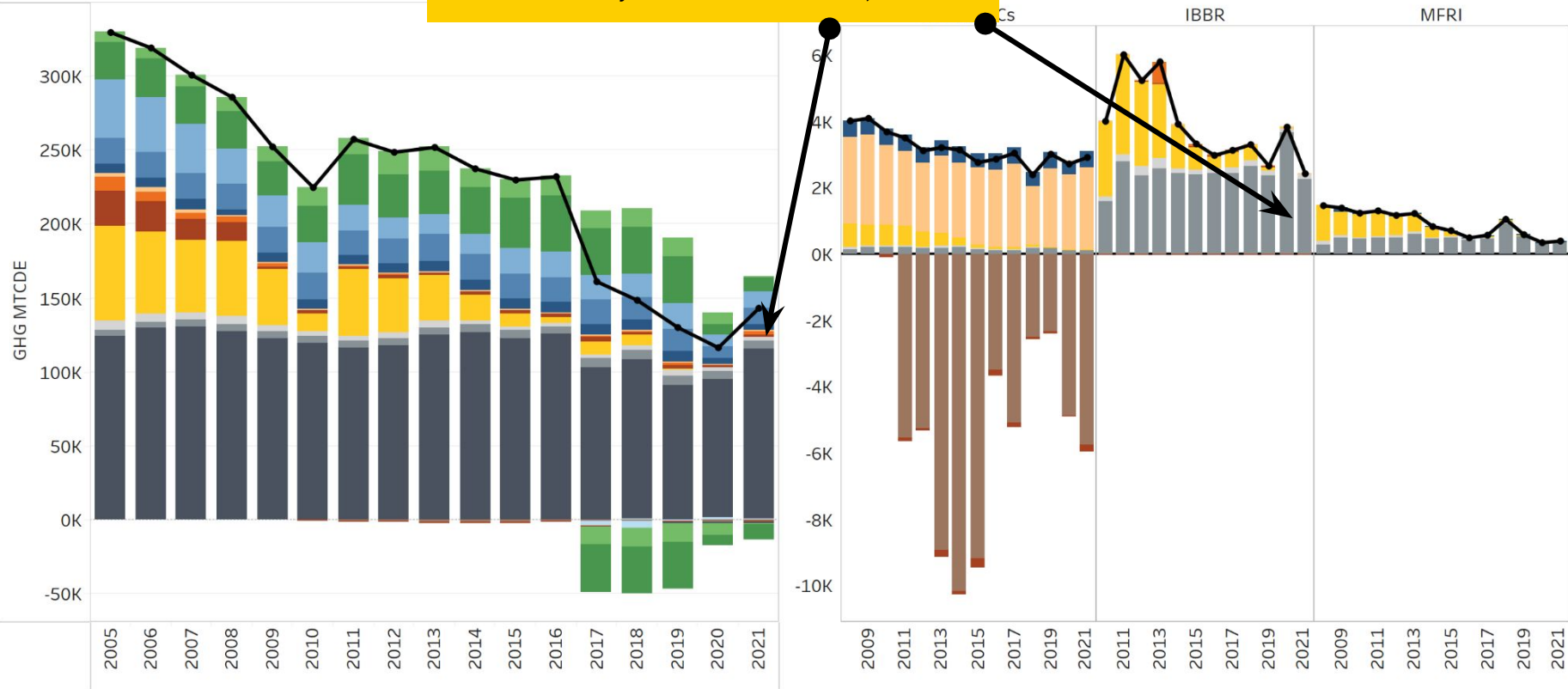


Emissions Source

- Study Abroad Air Travel
- Faculty Commuting
- Solid Waste
- Co-Gen Fuel
- Carbon Neutral New Development
- Directly Financed Air Travel
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- Other Stationary Fuel
- Undergrad Commuting Offsets
- Non-Additional Sequestration

2021 Other Stationary Fuel at College Park:
2021 Other Stationary Fuel at IBBR:

5,726 MTCO_{2e}
2,266 MTCO_{2e}



Emissions Source

- Study Abroad Air Travel
- Faculty Commuting
- Solid Waste
- Co-Gen Fuel
- Carbon Neutral New Development
- Directly Financed Air Travel
- Direct Transportation
- Purchased Electricity
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- Non-Additional Sequestration

DEVELOPING CAMPUS & GREATER COLLEGE PARK

6

CARBON NEUTRAL NEW
DEVELOPMENT BUILDINGS

22

GREEN BUILDINGS ON CAMPUS
BETWEEN 2010-2022

938,014 sqft

GREEN BUILDINGS ADDED
BETWEEN 2020-2022



DEVELOPING CAMPUS & GREATER COLLEGE PARK

1,565

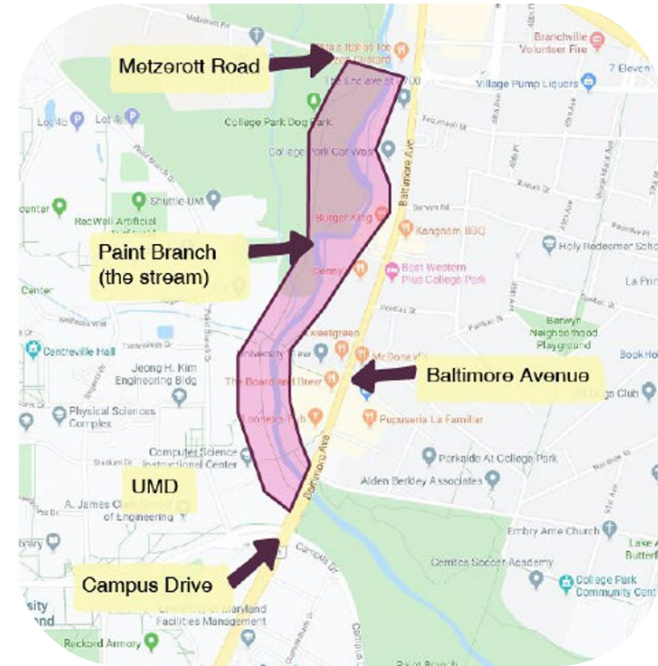
NEW OFF-CAMPUS BEDS
FOR STUDENTS IN 2022

75

HOMES PURCHASED WITH
THE CPCUP HOMEOWNER
PROGRAM (SINCE 2015)

\$850,000

FOR A RIVERWALK ALONG THE PAINT BRANCH IN
THE NORTHGATE PARK AREA



STORMWATER BEST MANAGEMENT PRACTICES

163

STORMWATER BMPS
ON CAMPUS

229

UMD STAFF RECEIVED
STORMWATER TRAINING

\$50,000

FOR PHASE 2 OF CAMPUS CREEK
RESTORATION AWARDED IN 2021



UNIVERSITY SUSTAINABILITY COUNCIL
**SUSTAINABLE WATER USE
AND WATERSHED REPORT 2021**



ON-CAMPUS OUTREACH FOR STUDENTS

63

ON-CAMPUS EVENTS,
INCLUDING EARTH FEST &
MARYLAND DAY

29

CHAPTERS PARTICIPATED
IN GREEN CHAPTER

18,849

STUDENTS REGISTERED AS GREEN TERPS
BETWEEN 2012-2022
2,072 REGISTERED IN 2021-2022



LEADERSHIP SUSTAINABLE RESEARCH & DINING

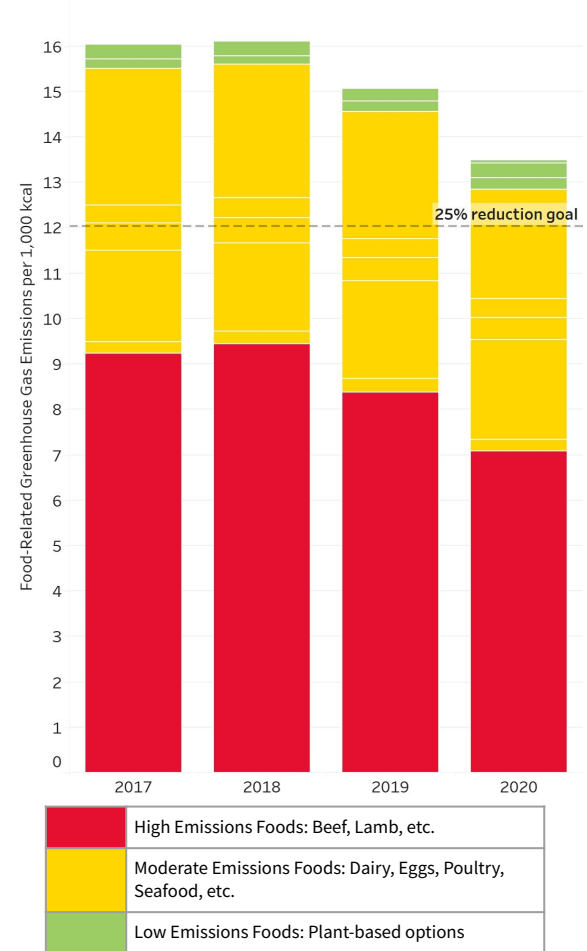
1ST IN SUSTAINABLE RESEARCH IN AASHE SUSTAINABLE CAMPUS INDEX (TIE)

34% REDUCTION IN PER PLATE EMISSIONS IN 2020 COMPARED TO 2017

\$500,000
ANNUAL FUNDING FROM STATE FOR SUSTAINABLE MARYLAND COMMUNITIES



Food-Related Emissions per Plate



EXCELLENCE IN WASTE MINIMIZATION & MANAGEMENT

4TH

TOP PERFORMER IN AASHE'S
SUSTAINABLE CAMPUS INDEX

98%

ADOPTION RATE FOR WASTE-
RELATED GREEN OFFICE
BEHAVIORS

68.2%

INSTITUTIONAL RECYCLING RATE
60% LESS WASTE GENERATED
COMPARED TO 2019



AASHE STARS Gold Rating

Benchmarking & Next Steps



AASHE STARS FRAMEWORK: STARS 2.2

The AASHE STARS Report is organized into four sections. Each section is divided into subsections, and each subsection includes categorized questions. The report is divided as follows:

- **Introduction:** *no points*
- **Institutional Characteristics:** *no points*
- **Academics:** *58 points*
- **Engagement:** *41 points*
- **Operations:** *71 points*
- **Planning & Administration:** *34 points*
- **Innovation & Leadership:** *4 points*

Data points collected include:

- **Curriculum:** curriculum inventory, learning outcomes, graduate & undergraduate sustainability programs
- **Research:** research inventory, support for research, open access
- **Engagement:** student engagement (educators, orientation, life, outreach), employee engagement (training, orientation, educators)
- **Public Service:** community partnerships, inter-campus collaboration, community service, public policy, trademark licensing, continuing education
- **Operations:** emissions inventory, building (design, construction, operation, efficiency), renewable energy, food purchasing inventory, sustainable procurement, landscape management, cleaning, campus fleet, commuting, waste management (hazardous, construction, individual), sustainable water
- **Planning:** planning & coordination, governance, diversity & equity, affordability & access, investment & investor responsibility, wellbeing & workplace health, compensation



2022 AASHE GOLD RATING: GROWTH & LOSSES

77.34 SCORE ON 2022 GOLD STARS RATING

+7.87 POINTS COMPARED TO 2019 GOLD RATING

AREAS OF GROWTH:

Academics: +9.27 points

- Increased sustainability-related courses & learning outcomes

Water: +2.24 points

- Reduced water consumption due to COVID-19 pandemic

Energy: +1.85 points

- Points reorganized between 2.1 and 2.2 reports; points earned through Office of Environmental Affairs air permitting inventories

Investment: +1.69 points

- Increased investment in sustainable funds

Waste: +1.48 points

- Overall reduction in waste generation compared to baseline

Food & Dining: +1.45 points

- Transitioned to Cool Food Pledge plant-based purchases & reporting locally sourced food items (Terp Farm, Wye Angus, etc.)

AREAS OF LOSS: Public Engagement (-1.46)



2022 AASHE GOLD RATING: PATH TO PLATINUM*

77.34 SCORE ON 2022 GOLD STARS RATING

-7.66 POINTS AWAY FROM PLATINUM RATING

AREAS WITH EXPECTED IMPROVEMENT

INVESTMENT & FINANCE: 70.1% available (4.91+)

- Difficulties: progress controlled by actions of USM Foundation
- Expected Improvement: new committee for ESG and sustainability

TRANSPORTATION: 67.3% available (4.71+)

- Difficulties: large vehicle fleet & commuting population
- Expected Improvements: ZEV fleet commitment and infrastructure development, the Purple Line and increased sustainable commuting

ENERGY: 57% available (5.7+)

- Difficulties: building age, equipment, and existing infrastructure
- Expected Improvements: 2025 carbon neutrality commitment, 2035 fossil-fuel free commitment, and NextGen Energy Program

BUILDINGS: 52.8% available (4.22+)

- Difficulties: certifying buildings through LEED & IgCC, operations certification
- Expected Improvements: 900,000 gsf of green space opened in 2021-2022

AREAS WITH POSSIBLE IMPROVEMENT

FOOD & DINING: 51.3% available (+4.1)

- Points will increase with progress towards the Cool Food Pledge
- Dining Services is a nationally recognized leader in sustainable food

SUSTAINABILITY LITERACY: 100% available (+2)

- Due to the size of the campus population, sustainability literacy assessments do not provide enough points to justify the demand. With the development of software, increased awareness of sustainability, and better partnerships, a literacy assessment may be more feasible in the future

*Strategies & points may change due to STARS 3.0 update



2022 AASHE GOLD RATING: BENCHMARKING

77.34

SCORE ON 2022 GOLD
STARS RATING

1ST

IN BIG10 + FRIENDS
CONFERENCE

BENCHMARKING AGAINST BIG10

MICHIGAN STATE: 75.15 Gold

- Equivalent student populations, GSF is 1.5x UMD's, endowment is \$3.9B
- UMD leads in renewable energy, GHG emissions, waste, and investment
- Michigan State leads in public engagement and sustainability planning

PENN STATE: 74.49 Gold

- Equivalent academics, acreage is double UMD's, endowment is \$3.1B
- UMD leads in academics, waste, and investment
- Penn State leads in energy, water, and commuting

Of the 19 schools in the Big 10 Conference (including associates and future Big 10 schools), only 10 have active AASHE STARS Reports.

BENCHMARKING AGAINST PLATINUM

UC BERKELEY: 85.39 Platinum

- Similar campus, student population, and climate zone; endowment is \$4.9B
- UC Berkeley leads in most point categories but specifically in engagement, building, commuting, water, and investment

UNIVERSITY OF NEW HAMPSHIRE: 86.09 Platinum

- Smaller campus, colder climate, endowment is \$235M
- UNH has nearly perfect scores in certain areas (academics and engagement) but also has areas with the opportunity for significant improvement. UMD's points are more spread out with progress in all fields.





FEDERAL FUNDING LEARNING SERIES PART 4

HOW UNPRECEDENTED INCENTIVES AND FUNDING IN THE INFLATION REDUCTION ACT CAN ADVANCE LOCAL CLIMATE ACTION

October 4, 2022

Introductions



Alex Dane

Senior Manager

Clean Energy Innovation & Partnerships

WRI



Alisa Petersen

Manager

Federal Policy

RMI



Matthew Popkin

Manager

Urban Transformation

RMI

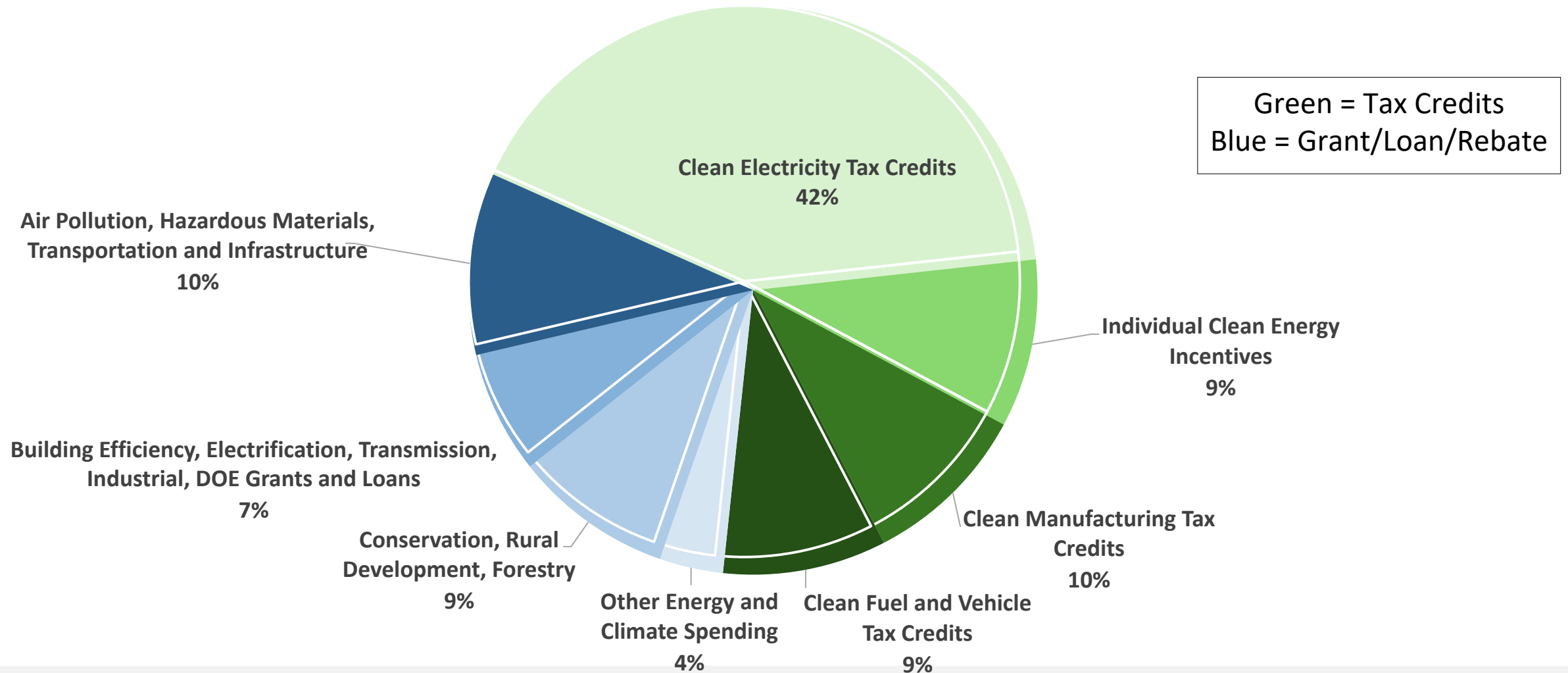
Many Thanks to the RMI/WRI Funding Team:

Jingyi Tang & Ryan Warsing (RMI)

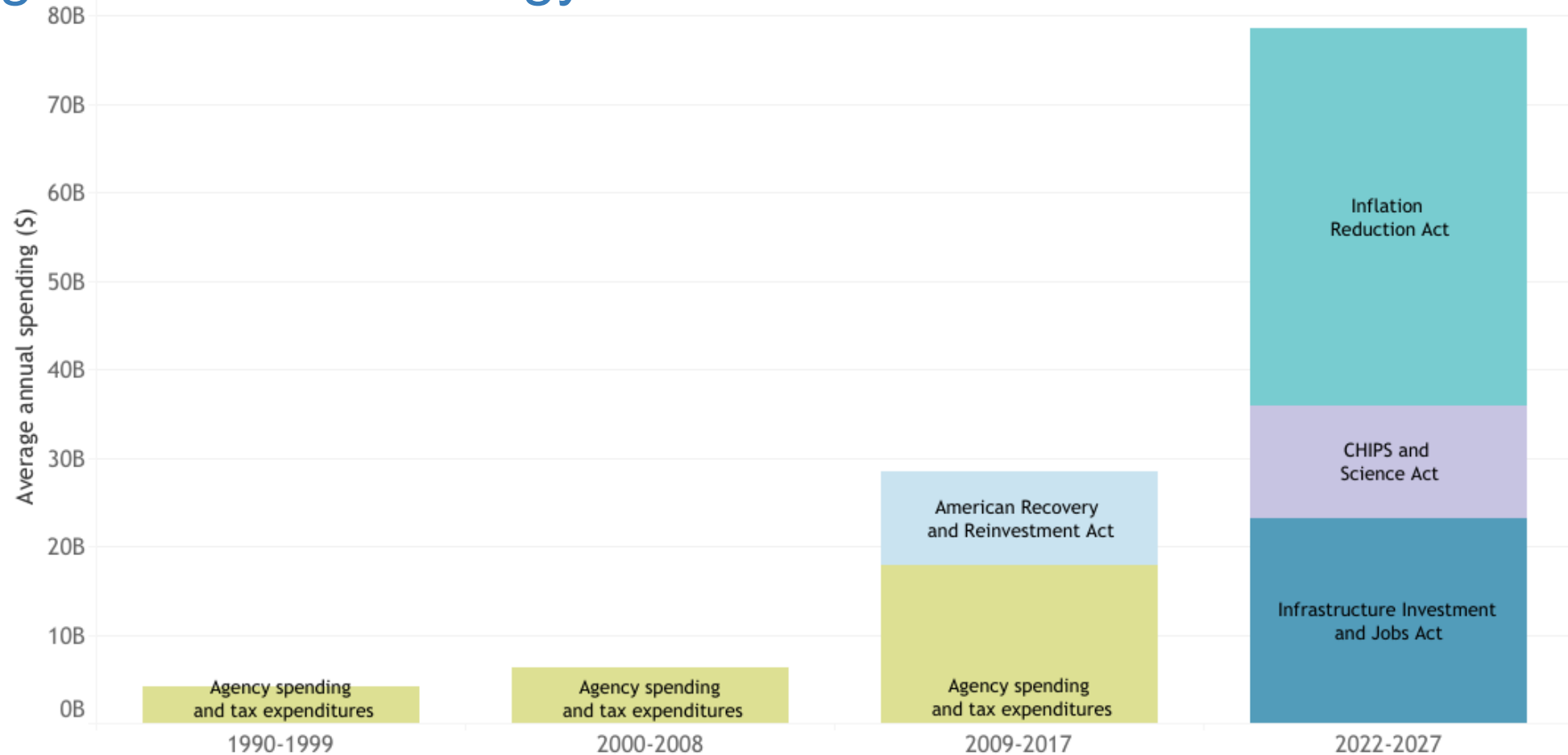
Andrew Light, Ian Goldsmith, & Kat Carroll (WRI)

What is the Inflation Reduction Act (IRA)?

IRA's projected climate spend is \$386B, but that could be far higher since tax credits make up 70% of IRA and are uncapped

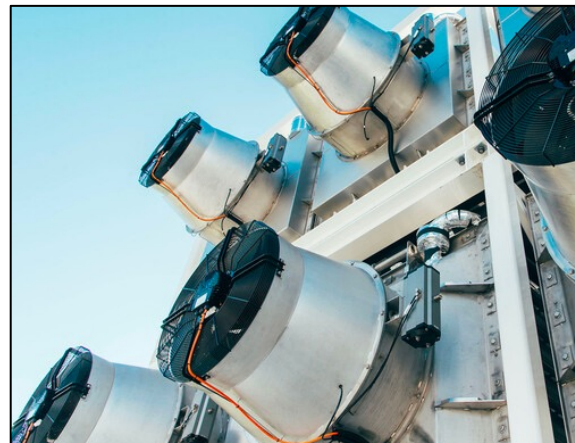
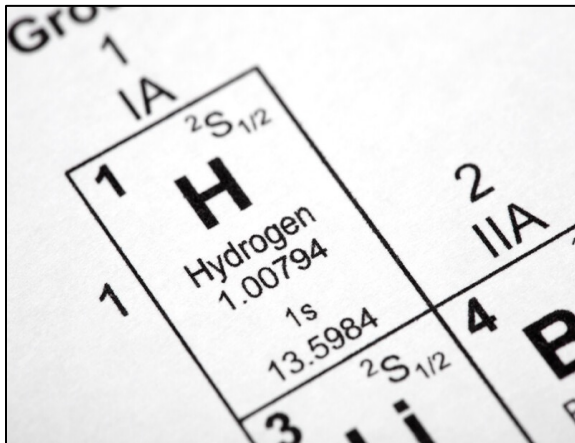


The IRA, combined with the IJJA and CHIPS and Science Act offer historic levels of federal investment into decarbonization programs and the energy transition



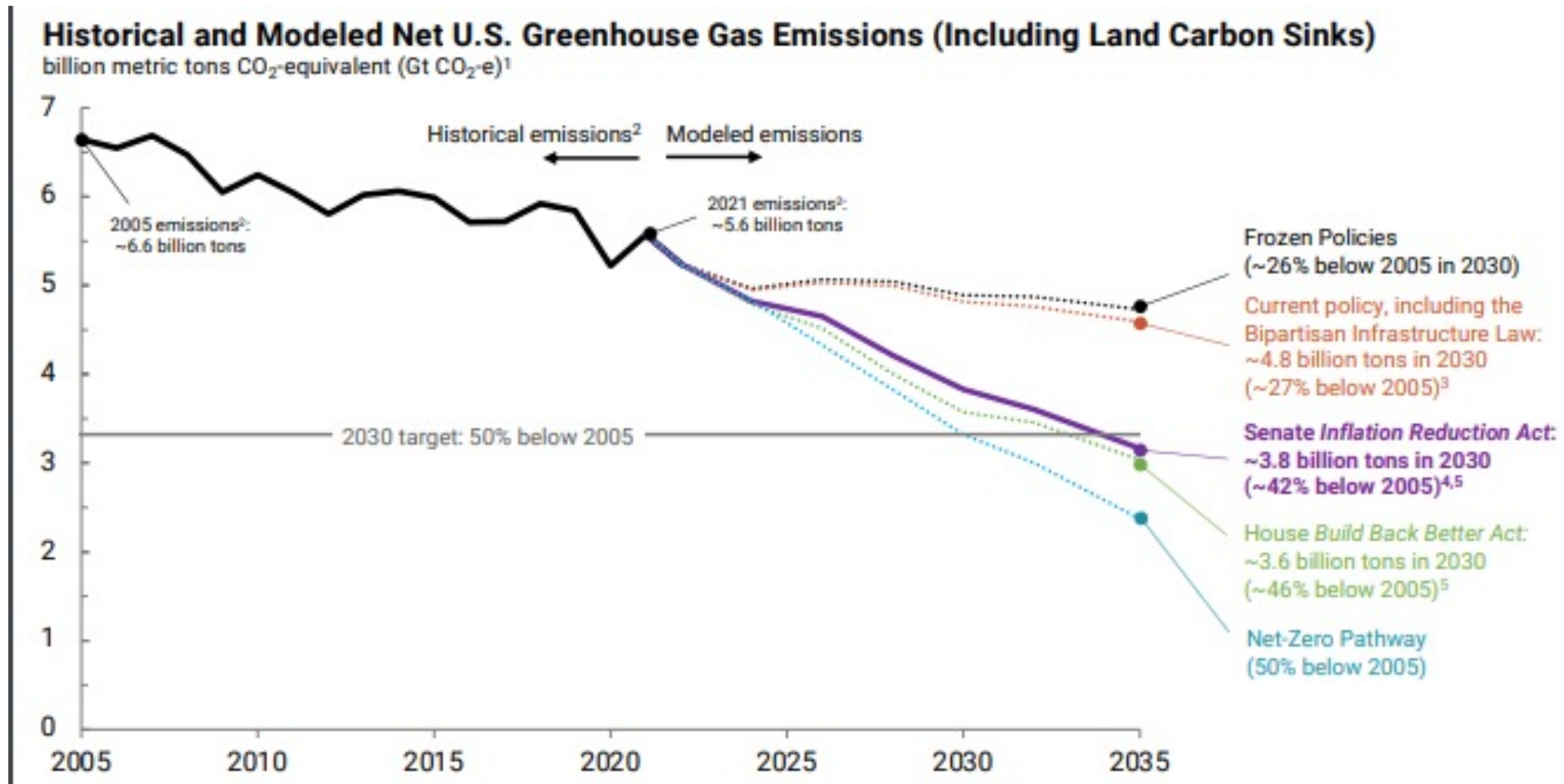
Source: RMI, *Congress's Triple Whammy: Innovation, Investment and Industrial Policy*

IRA incentives will make clean solutions cheaper or cost competitive with existing fossil fuel systems

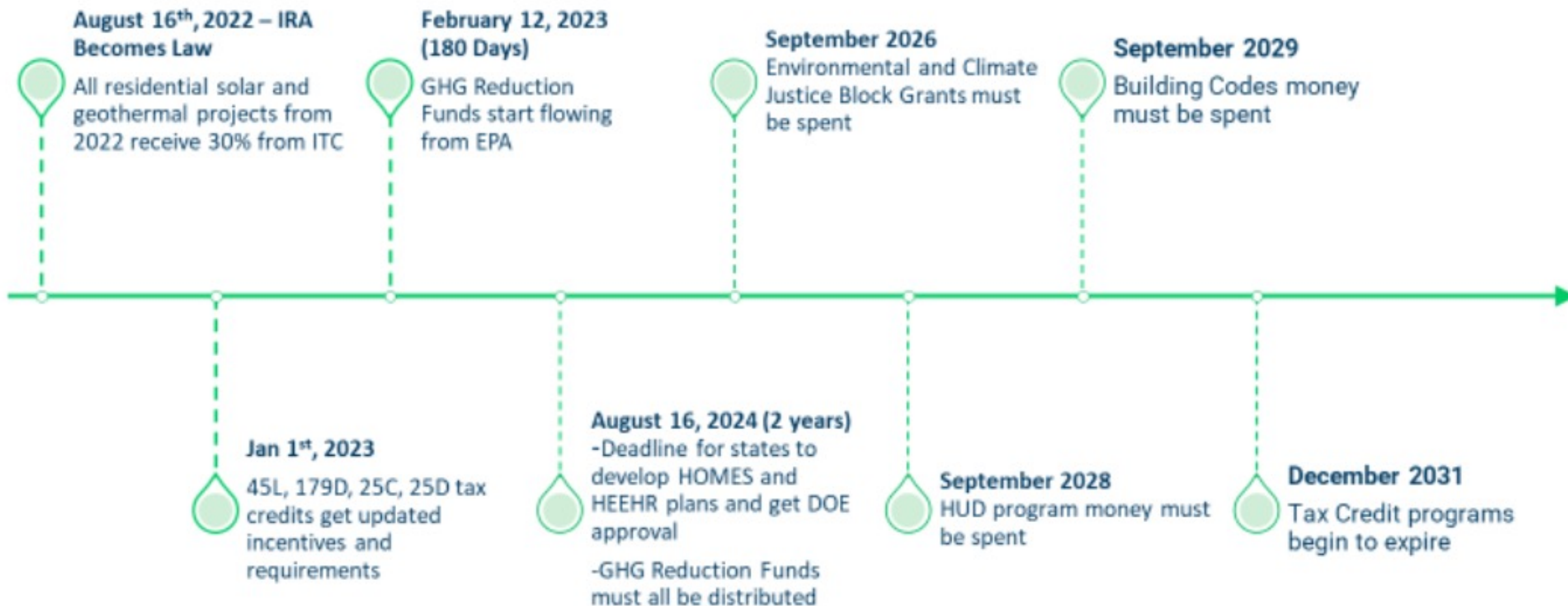


- Clean electricity
- Electric vehicles
- Batteries
- Building electrification
- Building efficiency
- Clean hydrogen
- Carbon capture
- Domestic manufacturing

The IRA is expected to reduce emissions 40% by 2030, getting us most of the way to our federal climate target

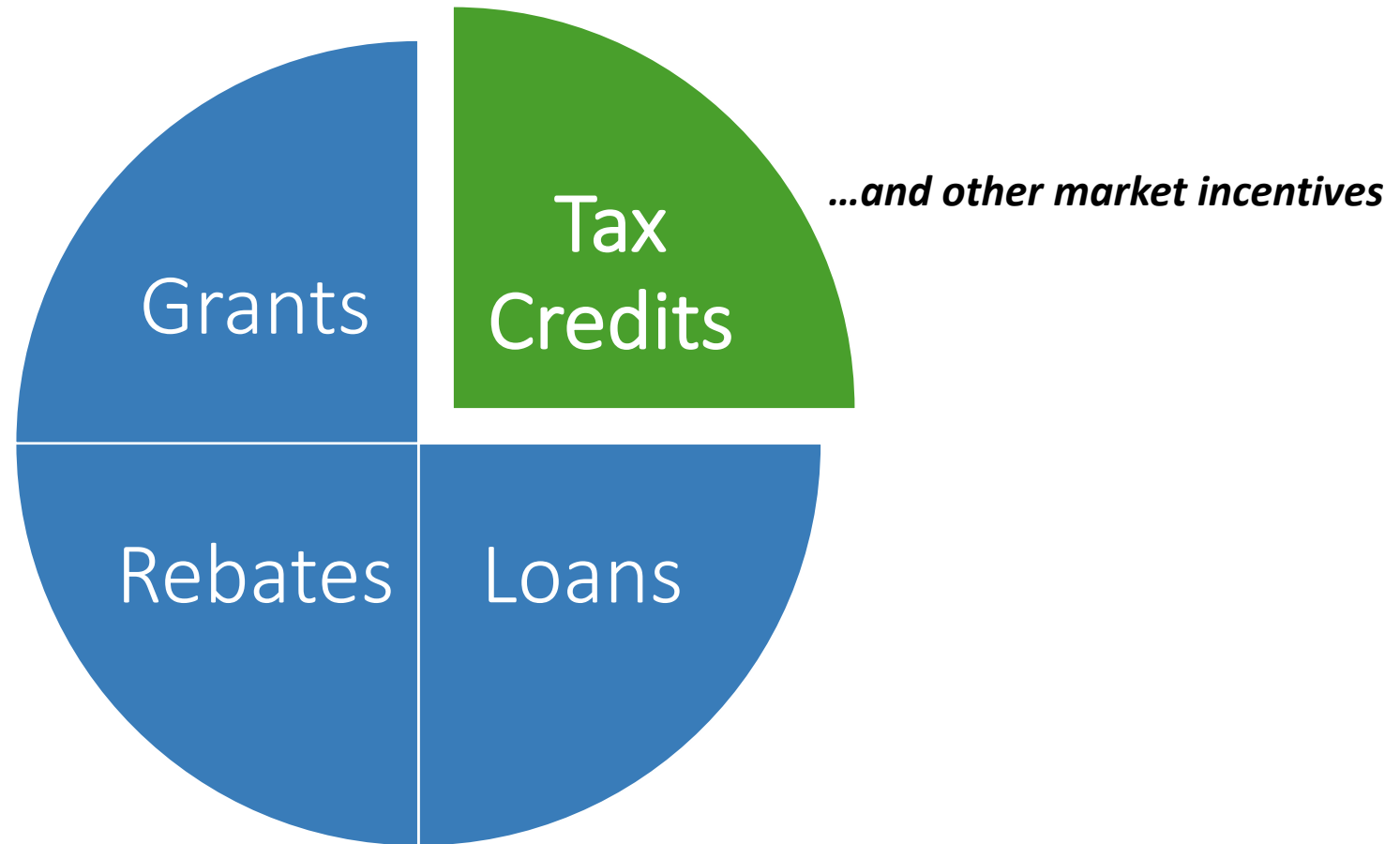


Timeline for IRA to hit the streets



How New Market Incentives and Direct Pay Unlock Opportunities

Tax credits and related market incentives comprise the majority of IRA programs



Two tax credits have been the primary economic drivers for financing renewable energy projects

Investment Tax Credit (ITC)	Production Tax Credit (PTC)
Upfront credit on the project's full eligible cost basis	10-year credit on the energy produced



The IRA dramatically extends and expands the benefits of the existing renewable energy tax credits

Extended Timeframe:

- The ITC and PTC are now extended until 2035, offering greater clarity and certainty to project developers, utilities, and energy buyers

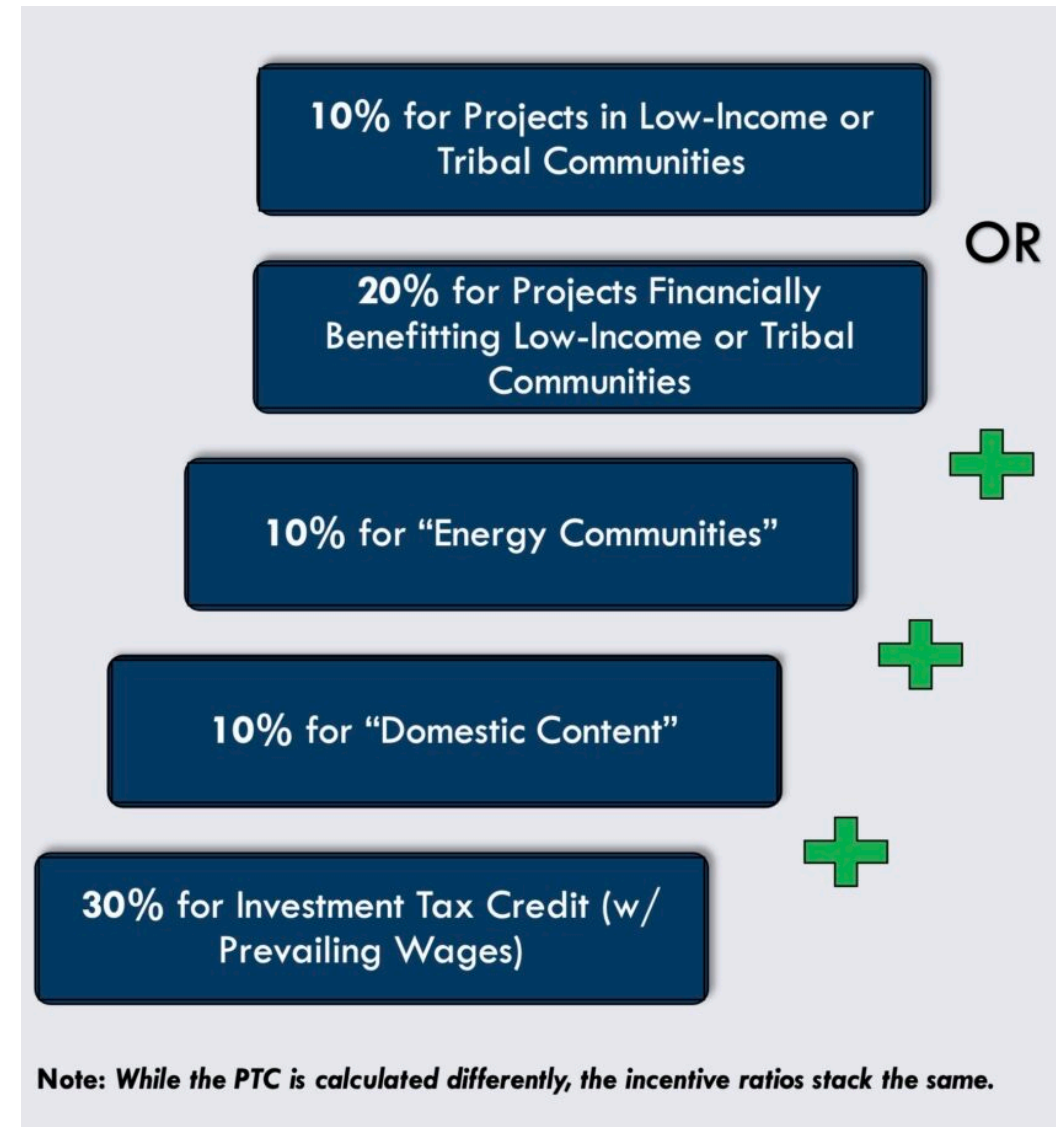
- For the first time ever, the PTC is now eligible for both solar and wind projects (previously only wind could qualify)
- Energy storage (i.e. batteries) now qualifies for the ITC
- Tax-exempt entities can now receive the equivalent of these credits through “direct pay”

- For full credit, utility-scale projects (typically those over 1 MW) will need to meet prevailing wage and apprenticeship standards specified in the IRA.
- The IRA created new “adders” to further incentivize projects prioritizing specific communities

The IRA carves out new "adders" which incentivize projects that advance an equitable clean energy transition

- ✓ Sourcing from American businesses (domestic content)
- ✓ Siting projects in "Energy Communities"
- ✓ Ensuring that >50% of the benefits are allotted to low-income or Tribal communities
- ✓ Siting projects in or adjacent to low-income or Tribal communities

These adders can be stacked too!



The IRA also created a new mechanism called “Direct Pay” (aka “Elective Pay”) that unlocks the benefits of tax credits for tax-exempt entities

What does this do?

- Enables projects to be ***owned*** by tax-exempt entities and still capture the financial incentives

How will this work?

- Direct Pay will *likely* work like a regular income tax refund where eligible parties are treated as if they "overpaid" on a tax return
- This is **non-competitive** funding

Why does this matter?

- Those seeking to own projects that wouldn't be as affordable without tax credits
- Entities in regulated electricity markets precluded from third-party financing

Direct pay and transferability will allow local governments and non-taxable entities to benefit from tax credits

Most Relevant to Local Governments

- Renewable Electricity Production Tax Credit (PTC) (Section 45)
- Energy Investment Tax Credit (ITC) (Section 48)
- Clean Energy Production Tax Credit and Investment Tax Credit (Section 45Y/48E)*
- Commercial Building Energy Efficiency Tax Deduction (Section 179D)**
- Qualified Commercial Clean Vehicle Tax Credit (Section 45W)***

Potentially Relevant to Local Governments

- Alternative Fuel Vehicle Refueling Property Credit (Section 30C)
- Carbon Oxide Sequestration Credit (Section 45Q)****
- Zero-Emission Nuclear Power Production Credit (Section 45U)
- Clean Hydrogen Production Credit (Section 45V)****
- Advanced Manufacturing Production Tax Credit (Section 45X)****
- Clean Fuel Production Credit (Section 45Z)
- Qualifying Advanced Energy Production Credit (Section 48C)

* The CEPTC and CEITC are similarly structured to the current PTC and ITC, respectively. However, they are zero-emissions technology neutral and will take effect in 2025.

** Not eligible for direct pay.

*** Not eligible for transferability.

**** For these credits, all taxpayers are eligible for Direct Pay regardless of tax-exempt status.

Start preparing for these market incentives now by incorporating it into your broader funding strategy



Considerations As You Prepare for New IRA and IIJA Programs

Before getting overwhelmed by the range of IIJA and IRA funding, break down your considerations into a manageable decision-making framework.

What are our priorities?

What are our budget needs (and what do we have already)?

What gaps remain for our program/project budget?

What federal or state programs can fund what parts of our project?

What other factors (deadlines/timelines, partners needed, likelihood of success, etc.) shape our strategy?

Align federal funding opportunities with municipal decarbonization goals to focus on relevant sources of funding

Goals

Energy Efficiency (EE)

Renewable Energy (RE)

EVs, Charging Infrastructure & Transportation

IIJA

- Energy Efficiency and Conservation Block Grants+
- Other Competitive State Energy Program Funding+

- Grants for EE and RE improvements at Public Schools
- State Energy Program & EECBG

- National EV Infrastructure Program
- Discretionary Grant Program for Charging and Fueling Infrastructure
- Carbon Reduction Program & SMART

IRA

- Energy efficient commercial buildings deduction (179D)

- Direct pay for Commercial ITC (48)

- Qualified commercial clean vehicles tax credit (45W)
- Clean Heavy-Duty Vehicles program

Then align federal funding opportunities with community-wide decarbonization goals to focus on relevant sources of funding

Goals

Residential and Commercial Energy Efficiency (EE)

Residential and Commercial Renewable Energy (RE)

Community-Wide Equity and Resilience

IIJA

- Building Codes Implementation for Efficiency and Resilience
- Energy Efficiency Revolving Loan Fund Capitalization Grants

- State Energy Program

- Building Resilient Infrastructure and Communities Program
- Flood Mitigation Assistance Program+

IRA

- Residential and commercial tax credits (25C, 179D, 45L)
- HOMES and High efficiency electric homes rebate program
- Latest and Zero-Emissions Energy Code Adoption Assistance

- Greenhouse Gas Reduction Fund
- Climate Pollution Reduction Grants
- Energy infrastructure reinvestment financing
- Direct pay for ITC/PTC

- Environmental and Climate Justice Block Grants
- Neighborhood Access and Equity Program

What federal or state programs can fund what parts of our projects?

IIJA and IRA funding opportunities are segmented federally, but can be combined locally

Bipartisan Infrastructure Law

Building Resilient Infrastructure and Communities (FEMA)

Energy Efficiency Conservation Block Grants (DOE)

Flood Mitigation Assistance Program (FEMA)

Strengthening Mobility and Revolutionizing Transportation Grants (DOT)

Charging and Fueling Infrastructure Grants (DOT)

Inflation Reduction Act

Greenhouse Gas Reduction Fund (EPA)

Environmental and Climate Justice Block Grants (EPA)

Climate Pollution Reduction Grants (EPA)

High Efficiency Electric Home Rebate Program (DOE)

Neighborhood Access and Equity Program (DOT)

This learning series now includes 4 core sessions to help local governments better understand, navigate, and prepare for federal funding to advance climate action and sustainability

Target Audience:

- This series was designed for municipal staff and community partners – regardless of prior experience with grant writing or grant management

Upcoming Session:

- To be determined

Near-term resources to keep you going!

Understanding the IRA

- [USDN's Inflation Reduction Act Miniguide](#)
- [NACO's Inflation Reduction Act Legislative Analysis for Counties](#)
- [RMI - 4 Ways the IRA Speeds the Shift to a Cleaner, More Affordable Energy Future](#)
- [WRI - Beyond Climate: 6 Big Benefits of the IRA](#)

Understanding Federal Funding Opportunities

- [FFOLD Tool \(Updated 9/23/2022\)](#)
- [Energy Efficiency and Conservation Block Grant \(EECBG\) Calculator](#)
- [Electrification Coalition EV Funding and Financing Guide](#)

Understanding Equity & Federal Funding

- [Equity Design Considerations for Federal Funding](#)
- [White House CEQ Justice40 Guidance](#)

Events and Resources from Our Partners



- [A 50-State Survey of State Policies and Decision Makers to Help Ensure Federal Investments Go to “Disadvantaged Communities” Under Biden’s J40 Initiative](#)
 - Report was just released this past Friday, Sept. 30th
- [Upcoming Funding Webinars from L4GG’s Climate Change Program](#)
 - L4GG has several upcoming webinars including “*Blue Sky (Funding) is the Limit - Update on DOE’s Recent State Energy Program Regulations*” tentatively scheduled for Oct. 14th
- [Brightfields 102 Workshop: Understanding the Landscape of Brightfields Funding and Financing](#)
 - RMI and Kansas State University’s Technical Assistance to Brownfields program are partnering to offer guidance on [brightfields](#) funding and financing strategies, including relevant IRA incentives scheduled for Nov. 16th



THANK YOU FOR JOINING US FOR THIS
LEARNING SERIES!

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