The background of the entire image is a dark blue color, overlaid with a pattern of various green leaves and branches. The leaves are rendered in a watercolor style, with soft edges and varying shades of green, from light lime to deep forest green. Some leaves are simple and oval-shaped, while others are more complex with multiple leaflets on a stem. The pattern is dense and covers the entire area.

CWRU
Office of Energy &
Sustainability's
Eighth Annual

BIG GREEN EVENT

FOWLER CENTER FOR BUSINESS AS AN
AGENT OF WORLD BENEFIT

The Fowler Center

for Business as an Agent of World Benefit



Director
Megan Buchter

We believe in a world where business can excel, human beings can flourish, and nature can thrive.

Educational Programs

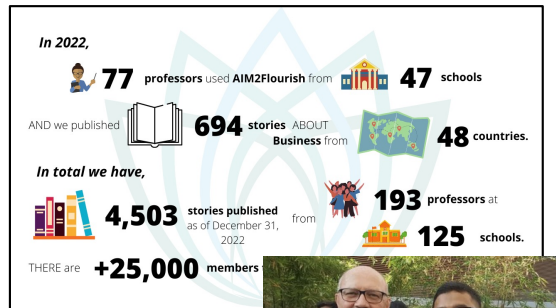
The Fowler Center

for Business as an Agent of World Benefit

Aim2Flourish (.com)
& Flourish Prizes

Business for World
Benefit Clinic

ThinkImpact



The Fowler Center

for Business as an Agent of World Benefit

Additional
Activities

Impact Investing
Competition



Global Forum Series



Research



CWRU WELLNESS

Big Green Project Goals - 2022: Wellness & Sustainability Environmental Health

Elizabeth Click
Medical Director

What is the Healthy Catering project?

A commitment to:

- Highlighting nutritious food options for the campus community for events and programs
- Turn key ideas and resources to planning your catering events
- Three presentations for faculty and staff including a healthy lunch
- Offered in 2019 and 2022
- Partnership between University Wellness, University Sustainability, and Pisanick Partners, LLC

What is the Environmental Health Series?

An 8-week University Wellness series for benefits-eligible Faculty and Staff:

- Recycling (Solid Waste District)
- Healthy Homes – Health People – Healthy Communities (Environmental Health Watch)
- Environment and Health (CWRU School of Medicine)
- PFAS – Forever Chemicals (CWRU School of Engineering)
- The Nature Prescription (Texas A&M University)
- Sustainable Healthy Lifestyle (CWRU Sustainability)
- Yards and Lawn Care (Good Nature Organic Lawns)

UNIVERSITY FARM FOOD PROGRAM

University Farm's Food Program

- Education Programs Coming Up:
 - Foraging, Square foot gardening, pickling, campus good stands...
- 3 Types of Summer Student Positions
 - Application Open Now, see case.edu/farm and apply asap
- Farm Food Program Associate Greenhouse Position also has an application open



University Farm's Food



Compost Program



CAMPUS GARDEN



Garden@Case

[Home](#)[Events](#)[Photos](#)[Members](#)[Contact Us](#)[About](#)[How To Volunteer](#)[In The News](#)[Officers](#)[Garden Layout & Plants](#)[Garden Tips](#)

USEFUL LINKS

[Google Map to Garden@Case](#)[Garden@Case on Facebook](#)[Garden@Case Photos](#)

[Ohio State University Extension's Summer Sprout program \(Cleveland's Community Gardening Program\)](#)

Garden@Case is a member.

ABOUT US

Garden@Case is a community garden maintained by faculty, staff, and students of Case Western Reserve University. Volunteers raise the food to be donated to local food banks. The mission includes: to encourage a group of diverse volunteers and appreciate the contributions of all, to foster an environment of interpersonal relationships, group dynamics (planning, organizing, deciding), and to cultivate support through networking, advocacy, and activist.

Garden@Case is located at the corner of Mistletoe and Magnolia Drive, near Mather Park.

Since 2012, volunteers raise the food to be donated to local hunger centers.

Current partnerships include:

- [Hunger Network](#) - Cuyahoga County's largest emergency food provider
- [Frontline Service](#) - Provides services and support to end homelessness, prevent suicide, resolve behavioral health crises, and overcome trauma.

It is with great sadness that we learned one of the co-founders of Garden@Case, Kathleen Dowdell, has recently passed away. See the

UPCOMING EVENTS

There are no upcoming events.

QUICK FACTS

1 Group officers

140 Group members

4 Events

61 Emails/Newsletters

Donors - Thank You

- [Office of Energy & Sustainability](#)
- [Sears think\[box\]](#)
- [Facilities Services \(CWRU\)](#)
- [Ohio State University Extension's Summer Sprout program \(Cleveland's Community Gardening Program\)](#)

BON APPETIT

HOW IT WORKS

Food waste is separated into unique categories and then reported on a tablet which shares that data in real time on the team's Café Manager page.



Mentor Graphics using Waste Not™ to report waste

Waste is separated and reported in categories which were created to capture information that is actionable for chefs. In addition to the categories below, teams can also opt to track guest plate waste and/or catering leftovers.

KITCHEN GREEN WASTE

DESPERDICIOS VERDES EN LA COCINA

TRIM, BONE, SHELLS
 LOS RECORTES, EL HUESO, LAS CÁSCARAS

fruit & veg trim, peels, stems, bones, shells, fat
 los peños de frutas y verduras, los tallos, los huesos, las cáscaras, la grasa

 rinds <i>las cáscaras</i>	 stems and trim <i>los tallos</i>	 skins and peels <i>las cáscaras y las pieles</i>
 raw meat trim and fat <i>grasa y guarnición de carne</i>	 peels and cores <i>las pieles y los corazones</i>	 pits and seeds <i>los carozos y las semillas</i>
 egg shells <i>las cáscaras de huevo</i>	 stock bones <i>los huesos de caldo</i>	 coffee grounds <i>el café molido</i>
 stock vegetable trim <i>las pieles de verduras</i>	 tea bags <i>las bolsitas de té</i>	

KITCHEN RED WASTE

DESPERDICIOS ROJOS EN LA COCINA

<p>WHOOPS over-salted, burnt, not tasty WHOOPS demasiada sal, quemado, sin sabor</p>  dropped, spilled, burnt <i>caído, derramado, quemado</i>	<p>OVERPRODUCTION made too much food EXCESO DE PRODUCCIÓN demasiada comida hecha</p>  post-service, leftover, or excess product <i>sobranite o exceso de producto</i>
<p>FOOD SAFETY Food that is unsafe to serve or donate SEGURIDAD ALIMENTARIA la comida que no es segura para servir o donar</p>  expired or in temperature danger zone <i>vencido o en la zona de temperatura de peligro</i>	<p>POOR QUALITY wilted, damaged BAJA CALIDAD marchitado, magullado</p>  wilted, bruised, stale <i>marchitado, magullado, duro</i>
<p>ODDS AND ENDS bread butts and crust, odd cuts of deli meat, off sizes LAS SOBRAS colitas de pan y piezas y tamaños impares de carnes frías.</p> 	



CASE WESTERN RESERVE UNIVERSITY

MANAGE SETTINGS

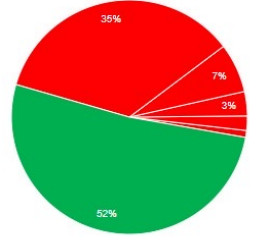
DATE RANGE: 08/08/2022 To 03/03/2023 TRACK TRENDS LINE ITEM ENTRIES

WASTE IMPACT

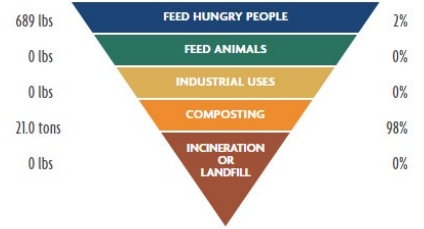
- TOTAL WASTE**
21.3 tons of waste
1931 five gallon buckets
- WATER FOOTPRINT**
4.15 million gallons
6 olympic swimming pools
- CARBON FOOTPRINT**
93.2 tons of CO2eq
20 passenger vehicles driven for one year

KIND OF WASTE

Trim, Bones, Shells	52%	11.0 tons
Overproduction	35%	7.5 tons
Odds and Ends	7%	1.4 tons
Food Safety	3%	1428 lbs
Poor Quality	2%	847 lbs
Whoops	1%	405 lbs



WHERE IT WENT

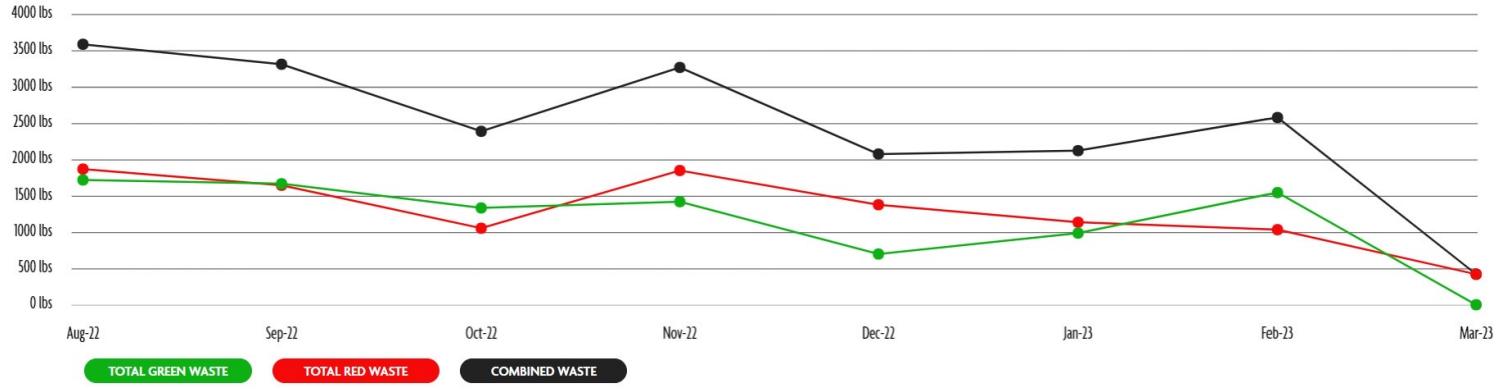


CASE WESTERN RESERVE UNIVERSITY - LEUTNER

MANAGE SETTINGS

WASTE IMPACT KIND OF WASTE WHERE IT WENT BACK

DATE RANGE: 08/08/2022 To 03/03/2023 MONTHLY



FOOD RECOVERY NETWORK



Our Mission

"Food Recovery Network unites students on college campuses to fight food waste and hunger by recovering perishable food that would otherwise go to waste and donating it to people in need."



ISSUES WE AIM TO TACKLE...

SOCIAL JUSTICE

Why are there gaps in neighborhoods with food access (food deserts), leading to food insecurity?

FOOD POLICY

What changes can be implemented in policy in the future that can help alleviate food waste, food insecurity, and ultimately alleviate hunger?

NUTRITION & HEALTH

How is food insecurity affecting individuals in the long term?

SUSTAINABILITY

How can fighting food waste help build a more sustainable future?

WHAT WE HAVE DONE SO FAR:

2085

pounds of food recovered since
August 2022 from Leutner

260

meals provided through our lunch
making events at St. Matthew
United Methodist

WEIGH THE WASTE

Kept track of the amount of
plate waste produced by
students in Leutner during a
dinner period

~50

sandwiches or salads
recovered every Friday from
Tink and Tomlinson

CWRU CLIMATE ACTION NETWORK

Foundation: Culture Change for Climate Change

- Provost's Office funded Seed sprint, initially one year time frame
- Intent:
 - Harmonize and scale climate action at CWRU
 - Build connections and collaborations across campus and with our neighboring communities
 - Promote awareness of all climate / sustainability actions happening on campus
- Original Team: 6 co-leads, 10 faculty, 6 staff, 6 students, many centers, cores, & institutes; now 75 members across schools

Progress: CWRU CAN!

1. Research Focus Groups to listen and learn from CWRU members and neighbors about experiences and attitudes regarding climate justice → currently recruiting on campus!
2. Lab greening: ongoing & growing, 3rd quad cleanout planned for this summer
 - a. Undergraduate Research Society collaboration
 - b. Summer 2022: 9 tons of impact, 2100\$, ~40 h of planning/execution
3. Midwest Climate Collaborative
4. Every job is a climate job
5. 2023 Fall CAW: Week of October 2nd



Image: Tuvalu's Minister for Justice, Communication & Foreign Affairs Simon Kofe gives a COP26 statement while standing in the ocean in Funafuti, Tuvalu (11/5/21). Courtesy Tuvalu's Ministry of Justice, Communication & Foreign Affairs / Social Media via REUTERS

The Case Western Reserve University
Climate Action Network
is looking for CWRU:

**Undergraduate students
AND
Graduate & professional students**

to take part in research focus groups where you will share your thoughts about climate change.

Please email cc4ccstudy2@case.edu with your name and affiliation if you are interested in participating.

Meetings will last about 90 minutes

****Gift cards will be offered as a token of appreciation for your participation.****

Ongoing and Future

- Climate curriculum, possible climate minor
- Climate justice work across campus and communities
- Building climate research across campus, research centers
- Implementing climate research solutions on campus
- Food
- Community events
- Climate action weeks (help wanted: event coordinator, general logistics, planning committed; email pvv4@case.edu with interest)
- Other...

MIDWEST CLIMATE COLLABORATIVE

MIDWEST CLIMATE COLLABORATIVE PRESENTS:

STUDENT CLIMATE CONFERENCE



COMMUNICATION, ADVOCACY, AND MAKING A REAL CHANGE

A VIRTUAL EVENT

DAY 1:
Climate Communication

THURS. MARCH 23
5:30-7:30 P.M. (EST)

DAY 2:
Making Real Changes

SAT. MARCH 25
12:00-2:30 P.M. (EST)

LUNCH PROVIDED!

*complimentary \$15 grubhub giftcard for those who attend!

REGISTER FOR FREE!
**REGISTRATION LINK
COMING SOON**

Direct any questions to:

Hifsah Ayub:
ayub.11@buckeyemail.osu.edu

&

Paola Van Der Linden Costello:
pvv4@case.edu



STUDENT SUSTAINABILITY COUNCIL

What is SSC?

- We are **CWRU's Student Run Environmentalism Organization!**

What We Do:

- Farm Harvest Festival!
- Environmental advocacy on campus!
- Collaborations with other CWRU clubs & organizations!
- Weekly Newsletter
- Sub-Projects



The Conservation Project



Mission

We strive to protect and conserve earth's biodiversity and natural resources by helping make campus more sustainable.



Projects

- Reusable Container Program
- Bird Nest Box Project
- Native Species Landscaping
- Mindful Mondays



GND For CWRU

Campaign Objective

- Shift the university to 100% renewable energy through a just transition for all students, workers, and community members
- Invest in the university's infrastructure to enable low carbon and sustainable operations
- Offer higher education and research opportunities that prioritize sustainable learning and aid the global transition to a fossil free economy
- Provide clean air and water, community resiliency, healthy food, and a sustainable environment for all campus users
- Promote justice and equity by stopping current, preventing future, and repairing historic oppressions of frontline and vulnerable communities



BIKE COMMITTEE & THINK ENERGY

Mobility!

At CWRU

Mobility Initiatives

CWRU Bike Committee

The CWRU Bike Committee seeks to represent bike riders in the CWRU community and on our campus. Open to students, faculty, and staff, this advocacy group aims to create programming, influence policy, and improve the material conditions that impact everyone spanning bike commuters to recreational riders. Additionally, this committee seeks a built environment that is accessible and safe for bikers, pedestrians, and everyone else navigating the CWRU community outside of a vehicle.

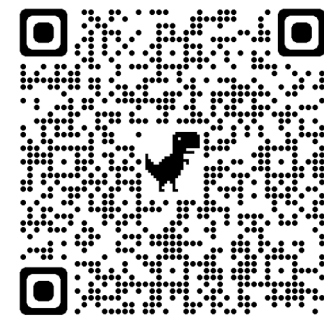
Clevelanders for Public Transit at CWRU

CPT is a rider's organization intended to support and promote the interests of transit riders including safe, affordable, accessible, reliable as well as environmentally and financially sustainable public transportation in Northeast Ohio.

THINK [energy]

The Great Lakes Energy Institute is looking for motivated **undergrad and graduate** students to join this exciting network of energy innovators.

- Paid Fellowship Awards
- Incorporates policy, research, entrepreneurship and internships!
- Prototype groundbreaking energy products and connect with industry leaders



Apply by April 3 at: energy.case.edu

THINK ENERGY FELLOWS

NuH₂

Powered by Pink

Revolutionizing Emission-Free Hydrogen Production



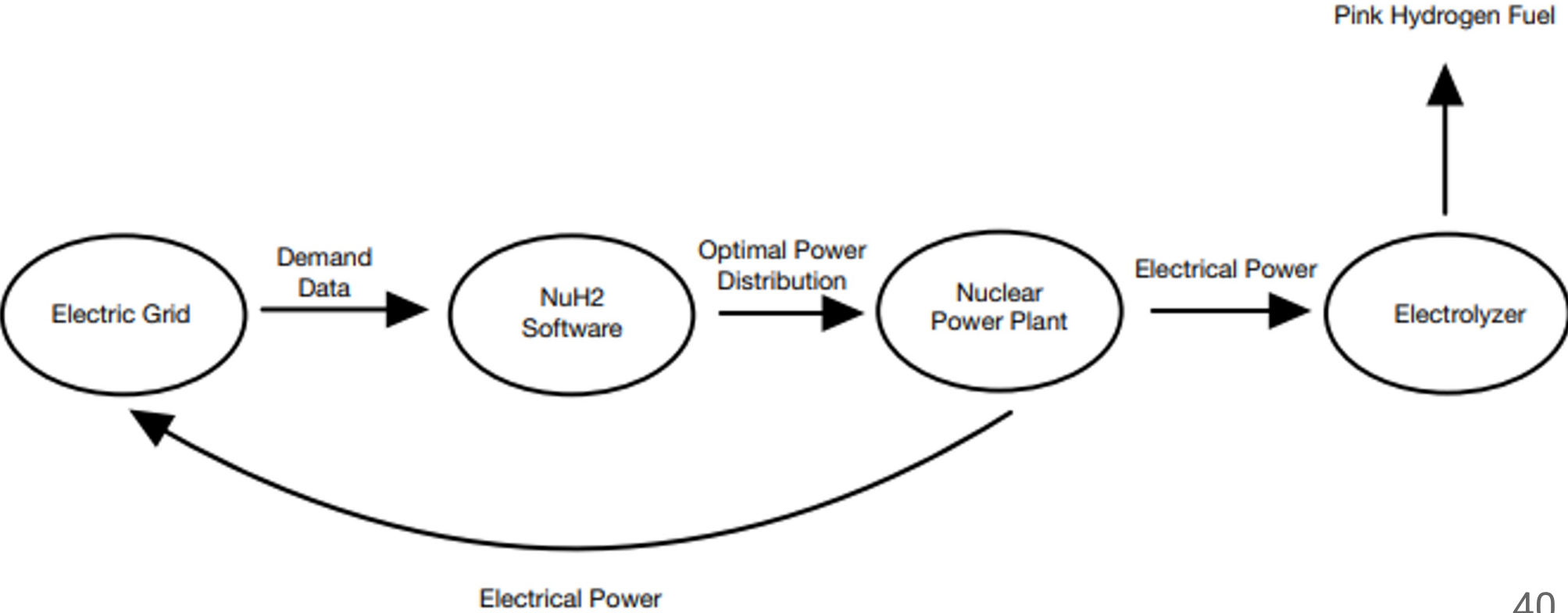
GREAT LAKES
ENERGY
INSTITUTE

CASE
WESTERN
RESERVE
UNIVERSITY
think beyond the possible

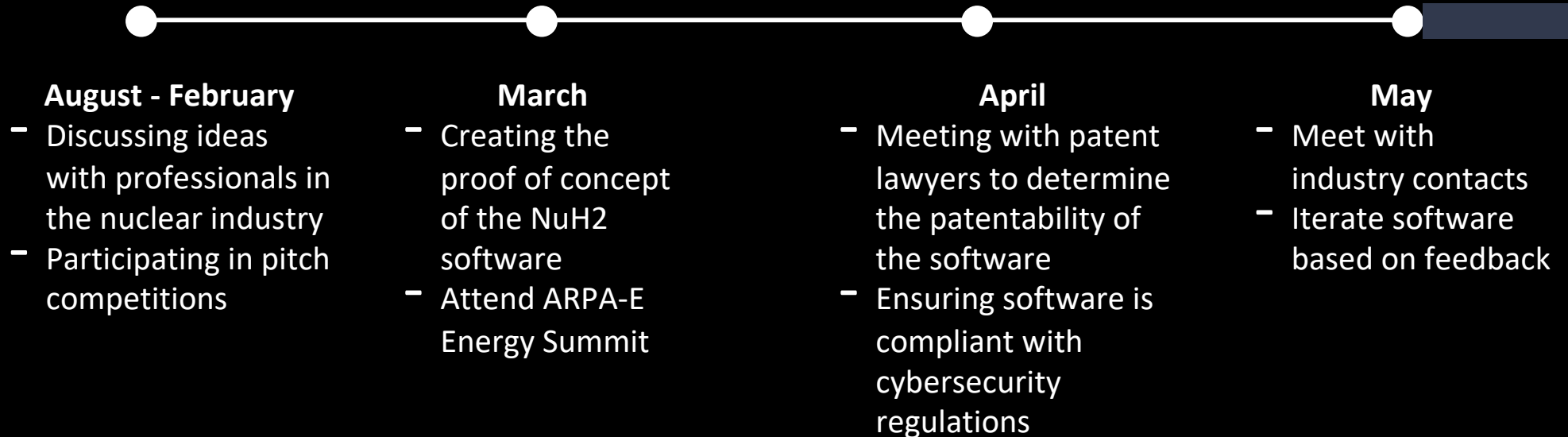


Nu-H₂ Software

Optimizing Pink Hydrogen Production



Project Timeline



BIOREGIONALISM +

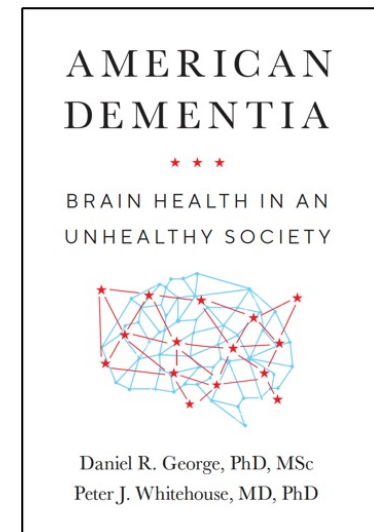
Transdisciplinary intergenerative storytelling in action

- CONTEXT – the Anthropocene, a new geological epoch produced by the Great Acceleration starting in middle of the last century
- PURPOSE – transformation of society beyond sustainability
- PASSION- designing learning spaces/organizations (“agora”)
- TARGET- neoliberal, technoscience
- FOCUS- health, education, arts and “humanities”

Ecopsychosocial “brain” health in bioregions

- American dementia: Brain Health in an Unhealthy Society (2021)

- CWRU Climate and Health Education Collaborative
 - Planetary Health
 - Earth Systems Science (and humanities)
 - Regenerating Bioregions





REGENERATING BIOREGIONS CoDesigning Our Future Together

*An interactive dialogue exploring the diversities
that make our communities so rich!*



Joe Brewer

Come meet Joe Brewer & Penny Heiple (Bioregional Activators Network, Barichara River Watershed in Colombia, South America). Cleveland is the next stop on their two-week journey through the largest freshwater basin on the planet - our beloved Great Lakes.

We will co-create visions of Northeast Ohio's future. Using the regenerative lens of bioregionalism, thought leaders in environmental sustainability will guide guests through conversations on how we can steward our natural resources for generations to come.

In conversation with local environmental thought leaders:

- Peter Whitehouse (Moderator) - Founder of the Intergenerational Schools, Physician, and Ethicist
- David Beach - Writer and Environmental Activist
- David Orr - Paul Sears Distinguished Professor of Environmental Studies and Politics Emeritus at Oberlin College
- Kimberly Foreman - CEO, Environmental Health Watch

Great Lakes Basin Project Intergenerational School in Toronto



LEARN HOW TO PROTECT YOUR FAMILY AND CREATE LEAD SAFE HOMES



RESIDENTS & FAMILIES

Learn how to protect your family from lead poisoning and find other tools to make Cleveland lead safe.

[Learn More](#)



LANDLORDS & PROPERTY OWNERS

Learn how to make your home lead safe and obtain a Lead Safe Certification.

[Learn More](#)



LEAD SAFE WORKERS

Join the workforce to complete clearance examinations, risk assessments, and lead safe home repairs.

[Learn More](#)

TH!RD ACT



Save the date | 3.21.23

STOP DIRTY BANKS

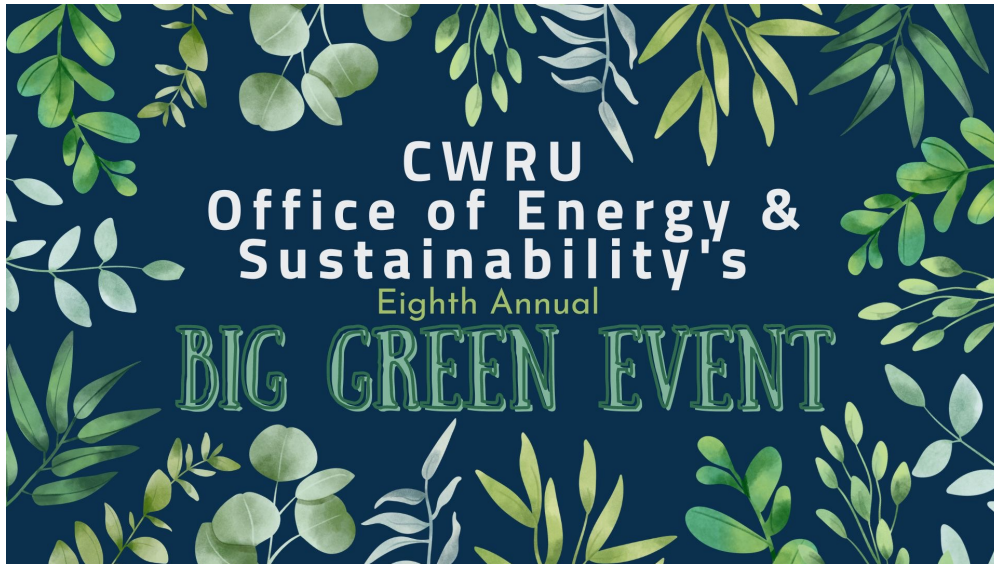
Join us for a National Day of Action on March 21, 2023 - 3.21.23! Together we demand banks stop funding climate chaos.

 **extinction rebellion** | [DONATE](#) | 



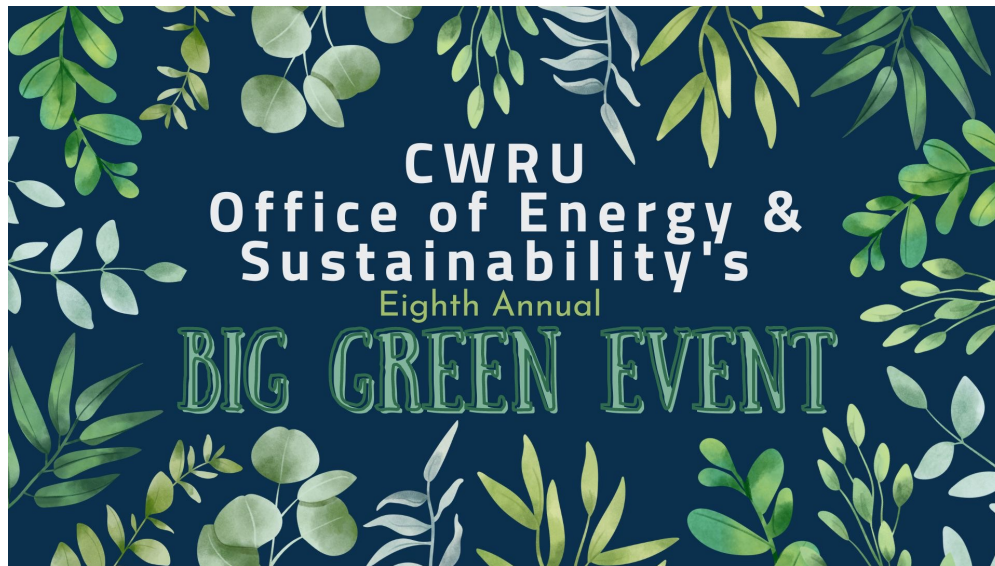
THE BIG ONE

21–24 April 2023.
100,000 people at the Houses of Parliament.



**Thank you
for sharing
your work!**

Next Up



**Mini Keynote by SeMia Bray,
Black Environmental Leaders
Association**