

*Putting good ideas to work for a
carbon-neutral, flourishing campus*

Sustainable CWRU

Case Western Reserve University Stats

- 8 millions sq. feet
- \$360.1 million in research revenues
- \$4.8 billion endowment
- 750,000 annual community volunteer hours
- 185 urban acres
- 140+ buildings
- 400 acres off-campus Univ. Farm
- 18,000+ people (10,000 students)
- \$20+ million annual utility spend
- 200,000 mmtco2e
- 1,300 research labs
- 1.8 million local food spend by Bon Appetit (approx)
- 130 fleet vehicles (approx)
- 140 bike racks
- 5 bike fixit stations
- 1000+ bikes
- 1,001 trees
- 1,002 squirrels



Sustainable CWRU Elements



- Climate Action Plan
- The Fowler Center for Business as an Agent of World Benefit
- Great Lakes Energy Institute
- University Farm
- Summer Undergraduate Research in Energy and Sustainability
- Social Justice Alliance
- Sustainability Alliance
- Campus Planning & Facilities Management
- Student Groups
- Staff Green Teams
- Environmental Studies Major
- Lots of sustainability related research
- ...

What We Work On

- Climate Action Plan
- Green Building + Transportation + Green Grounds
- Recycling & Materials Management
- Sustainability Data Collection
- Engagement and Creating a Culture of Sustainability

Major Office for Sustainability Projects FY19

- Energy Strategy Plan
- Recycling & waste study & Overhaul
- Climate Action Plan Refresh
- Bike training/mapping
- Compost changes

RECYCLING AT CWRU

mix recycling on campus



keep CARDBOARD separate
flatten it, place next to the bins 



 Rolling carts in buildings are
for **PAPER ONLY**. Please no
other recyclables or trash!

www.case.edu/sustainability

GREEN BAG LUNCH SERIES

- Green Your Lawn
- Personal Alternative Fuel Vehicles
- Green Building Design for Your Home
- Green Holidays w/ Upcycled Gifts
- Build Your Own Rain Barrel
- Solar for Your Home
- Biking to Work
- Recycle Like a Master
- Everything Trees
- Lake Erie's Health
- Composting at Home

Bon Appetit & University Farm Composting Partnership



- Pre-consumer kitchen scraps go to University Farm for composting.
- Post-consumer composting pilot in the coming months to meet student demand.
- Increased Special Events composting
 - Changes in regional composting infrastructure allow program expansion.

Climate Action Plan (CAP) Commitments

Signed ACUPCC 2008 / CAP published 2011



- Publicly report CWRU's GHG emissions inventory every year
- Report on CAP progress every 2 years
- Update plan every 5 years
- Requires we build min. LEED silver for new construction
- Goal to expand sustainability literacy academically

Student Sustainability Ambassadors

Recycling & Waste: Lori Sun & Sindhu Yalavarthy

Reuse: Carlos Lewis-Miller & Sierra Leonard

Energy – Res Hall: Maggie McClarren & Divya Manoharan

Energy – Green Labs: Ethan Hill & Emily Herrmann

Green Building: John Kilbane & Kevin Pataroque

Transportation: Thanvi Vatti & Mika Hoecher

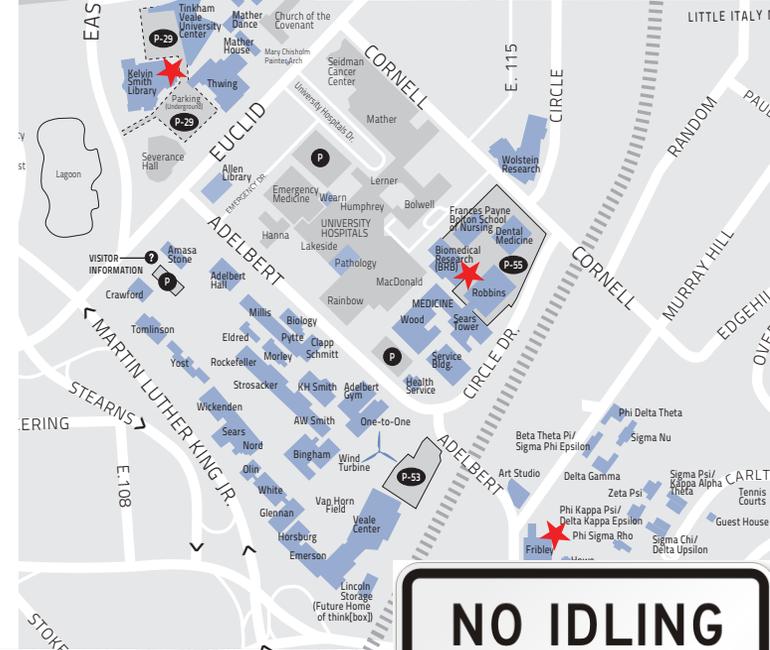
Green Grounds: Kayla Buckelew & Claire Holliday

Food (Real Food Challenge): Naveen Rehman & Jason Guo



Sustainable Transportation @ CWRU

- 6 Bike Fixit Stations
- Over 130 bike racks
- 4 Bike Share Stations
- Greenie shuttle system (1 runs on CNG)
- Car sharing – Enterprise & Zip
- Gohio ride matching portal
- New Van Pool program in Cuyahoga County
- RTA Commuter Advantage for employees
- U-Pass for Undergrads



Welcome Home to Case Western Reserve University

The University is striving to use less and recycle the rest - thank you for your assistance in reducing, reusing & recycling!

In Your Room:



when your bin fills,
empty it into the
appropriate bins in
the common area

paper



In Common Areas:



plastic, metal & glass



corrugated cardboard
- break it down
- put it between bins



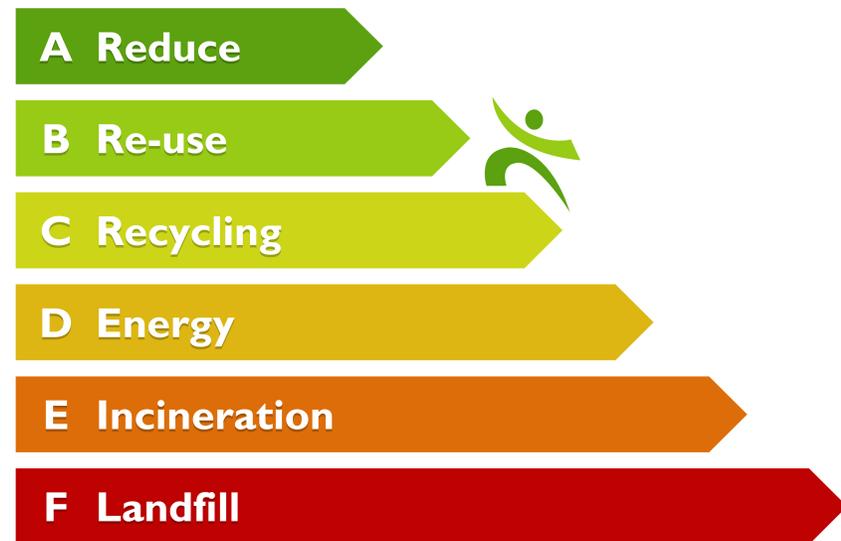
Reach out to us for
specialty items:

- Styrofoam
- Scrap Metal
- Furniture
- www.tinyurl.com/CWRUewaste
- Batteries
- Printer Cartridges
- Office Supplies

What is Recycling?

- The collection and processing of items that would otherwise be thrown away as trash and turning them in to new products.
- Planet Earth is a checking account.
- Waste Hierarchy
 - RECycle

WASTE HIERARCHY - LANSINK'S LADDER



Powered by Recycling.com

REBECCA LOWRY
SENIOR INTERIOR DESIGNER
CWRU

A modern office lounge with leather armchairs and a circular coffee table. The room features a large window on the left, a bookshelf in the background, and a contemporary chair on the right. The text is overlaid in the center.

Purchasing
new
COMMERCIAL
furniture



CONTRACT
VS
RETAIL

CONTRACT/ COMMERCIAL

12 YEAR WARRANTY TYP.

GREATER DURABILITY – MANUFACTURERS OFFER
CONTRACT QUALITY FABRICS AND FINISHES.
INCLUDING: MOISTURE AND STAIN RESISTANT
FABRICS (CRYPTON, AND RECYCLED CONTENT)

MAY COST MORE \$ UPFRONT BUT WILL LAST LONGER

MORE OPTIONS: FABRICS, FINISHES

ADDITIONAL FEATURES/ACCESSORIES: HIDDEN
FASTENERS TO SECURE SEAT CUSHIONS, REMOVABLE
COVERS (TRINITY “FACELIFT”), BARIATRIC SEATING
(STEELCASE HEATHCARE)

LOCAL DEALERS AND REPRESENTATIVES AVAILABLE FOR
SERVICE CALLS AND REPLACEMENT PARTS

PURCHASING A MORE DURABLE PRODUCT WILL PROVIDE
THE OPPORTUNITY TO RE-UPHOLSTER, REFINISH
BEFORE HANDING DOWN FOR RE-USE

RETAIL/ RESIDENTIAL

LIMITED WARRANTY, ONE YEAR, IF ANY

NOT AS DURABLE

MAY BE MORE COST EFFECTIVE INITIALLY
BUT, NOT LAST AS LONG

LIMITED OPTIONS ON FABRICS AND FINISHES

NO ADDITIONAL FEATURES/ACCESSORIES TO
PREVENT ADDITIONAL WEAR AND TEAR

HELP OR SERVICING FURNITURE MAY BE
LIMITED

LESS OPPORTUNITY TO RE-USE. ONLY
OPTION REMAINING IS TO
DECOMMISSION

COMMERCIAL - TESTING AND SAFETY STANDARDS

IN ORDER FOR COMMERCIAL FURNITURE TO RECEIVE A ANSI AND BIFMA RATING, IT IS PUT THROUGH A RIGOROUS SET OF TESTS. THESE TESTS ARE MEANT TO MEASURE SAFETY, PERFORMANCE AND SUSTAINABILITY. EACH PIECE OF FURNITURE AND MANUFACTURING FACILITY MUST MEET A STRICT SET OF STANDARDS BEFORE IT CAN RECEIVE A ANSI OR BIFMA RATING. TESTING IS ENTIRELY VOLUNTEER AND MANUFACTURES WORK VERY HARD TO MEET THESE RATINGS.

OFFICE FURNITURE IS AWARDED POINTS IN FOUR CATEGORIES THAT INCLUDE: MATERIALS, ENERGY AND ATMOSPHERE, HUMAN AND ECOSYSTEM HEALTH AND SOCIAL RESPONSIBILITY.

What is ANSI?

Founded in 1918 the [American National Standards Institute \(ANSI\)](#) works with organizations to create and manage voluntary national standards for products. The goal of ANSI is to enhance the global competitiveness of US business by facilitating the development of standards.

What is BIFMA?

The mission of the [Business and Institutional Furniture Manufacturer's Association \(BIFMA\)](#) is to lead, advocate, inform and develop standards for the North American office and institutional furniture industry. BIFMA is a non for profit that develops voluntary product and industry standards that support safe, healthy and sustainable environments in the workplace.

CONTRACT MANUFACTURERS ON GROUP PURCHASING ORGANIZATIONS

CWRU belongs to e&i, us communities, iuc, tcpn, njpa, hps

AGATI	DAVIS	INSCAPE	SAFECO
AIS	EGAN	JASPER	SAUDER
ALLERMUIR	EMECO	JONTI-CRAFT	SEDIA
ALLSTEEL	ENWORK	KEILHAUER	SEGIS
AMERICAN SEATING	EXEMPLIS (SIT ON IT & IDEON)	KNOLL	STEELCASE
ANDREU WORLD	GLOBAL FURNITURE GROUP	KI	STYLEX
ARCADIA	GUNLOCKE	MAGNUSON GROUP	TEKNION
CLARIDGE	HAWORTH	MARTIN BRATTRUD	VERSTEEL
CLARIN	HERMAN MILLER	MAVERICK DESK	VITRA
CLARUS GLASSBOARDS	HBF	MAYLINE GROUP	WATSON FURNITURE
CFGROUP (FALCON, THONET, SHELBY WILLIAMS, HOWE)	HIGHTOWER	MITY-LITE	
DARRAN	HON	NEVINS	
DAUPHIN	HUMANSCALE	NUCRAFT	
DAVID EDWARD	INDIANA FURNITURE	OFS BRANDS (FIRST OFFICE, LOEWNSTEIN, CAROLINA)	

WHERE TO PURCHASE CONTRACT FURNITURE

CLEVELAND FURNITURE DEALERS

Ohio Desk – steelcase

American Interiors - knoll

APG – herman miller

River City Furniture (RCF) - haworth

Environments 4 Business (e4B) – gunlocke/allsteel

Gdot – teknion

National Office Services – open lines

Contract Source – open lines

Workscope Interiors – open lines

Office Furniture Warehouse – gently used contract furniture

The City Desk Company – gently used contract furniture

EXTEND THE USEABLE LIFE OF CONTRACT FURNITURE

RE-UPHOLSTER

schultz upholstery, wodarczyk interiors, laubacher upholstery

REFINISH

gomillion, hardwood solutions

RETROFIT EXISTING WORKSTATIONS WITH SIT STAND LEGS

National office will retrofit an existing workstation with “Gen 2” legs

RELAMINATE WORK SURFACES

Wilsonart – “re-cover” laminate surface - An innovative new option for laminate combining a pre-applied adhesive to HPL to quickly update a dated design. Suggested interior applications include store fixtures, cabinetry, furniture, doors, and other vertical surfaces.



REUSED FURNITURE

RE-UPHOLSTER

KNOLL – PFISTER LOUNGE CHAIR

BEFORE



AFTER



RE-FINISH GEIGER CONFERENCE TABLES

BEFORE



AFTER



EST. 1920

think beyond the possible[®]

RE-FINISH GEIGER CONFERENCE TABLES

BEFORE



AFTER





FURNITURE WITH Recycled content

LOLL DESIGNS

TINK UNIVERSITY CENTER PATIO



EMECO

NAVY CHAIR



80% RECYCLED
ALUMINUM LIGHTWEIGHT,
NON CORROSIVE,
FIREPROOF, DESIGNED IN
1944

PRODUCTS ARE MADE WITH 100% RECYCLED HIGH-DENSITY POLYETHYLENE (HDPE) PRIMARILY FROM MILK JUGS. MILK JUGS ARE REUSED AND RECYCLED SO LOLL'S VIBRANT COLORS CAN BE CREATED.

COCA-COLA AND EMECO COLLABORATED TO SOLVE AN ENVIRONMENTAL PROBLEM: UP-CYCLING CONSUMER WASTE INTO A SUSTAINABLE, TIMELESS, CLASSIC CHAIR. MADE OF 111 RECYCLED PET BOTTLES



think beyond the possible®

ARLET WRIGHT
DIRECTOR,
THE OFFICE OF THWING CENTER
ENGAGEMENT AND OPERATIONS
CWRU

MARK CAPURIA
VICE PRESIDENT
THE CITY DESK

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Maureen Wise, Sustainability Consultant

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Coming Up

11/13

Big Green Event,

5:00 - 8:00pm

1/17/19

Green Bag Lunch

Noon – 1:00pm

**How everyday chemicals affect
our health & behavior**