

A Decade of Success for Energy Conservation through Behavior Change® at UMass Dartmouth

Behavior, Energy, and Climate Change Conference Tuesday, November 14, 2023





UMass Dartmouth Performance Contract

UMass Dartmouth

- Deferred maintenance
- Limited available capital
- Aging infrastructure
- Energy intensive operations



- Financing mechanism
- Partnership with an energy service company
- Energy savings from facility improvements
- Decreased maintenance and operating costs
- Upgraded equipment and infrastructure







Energy & Utility

Maintenance COSTS

Savings
GREATER OR EQUAL TO CONTRACT COSTS

People Savings
Additional reduction of energy costs

ENERGY CONSERVATION THROUGH BEHAVIOR CHANGE®

- Holistic initiative to partner with an energy project
- Created by an Industrial/Organizational Psychologist
- Scientifically-valid proprietary program
- "People-Side of Performance Contracting"

PROGRAM PROCESS

Human Behavior Energy AuditsM

Awareness Communication

Sustainable Behavior Change

Existing Program Alignment

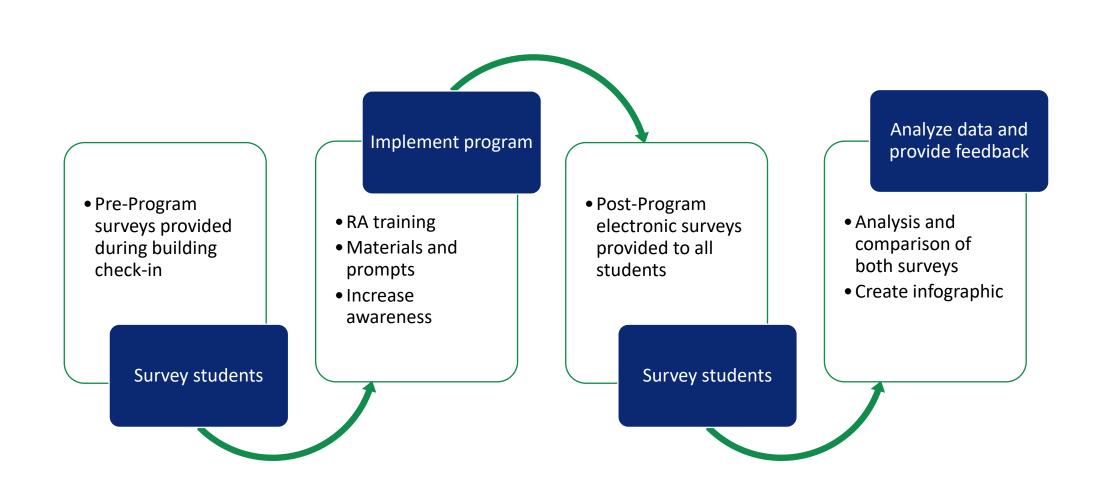
- Establish human energy baseline
- Identify impactful Behaviors

- Necessary, but insufficient first step
- Engages entire community

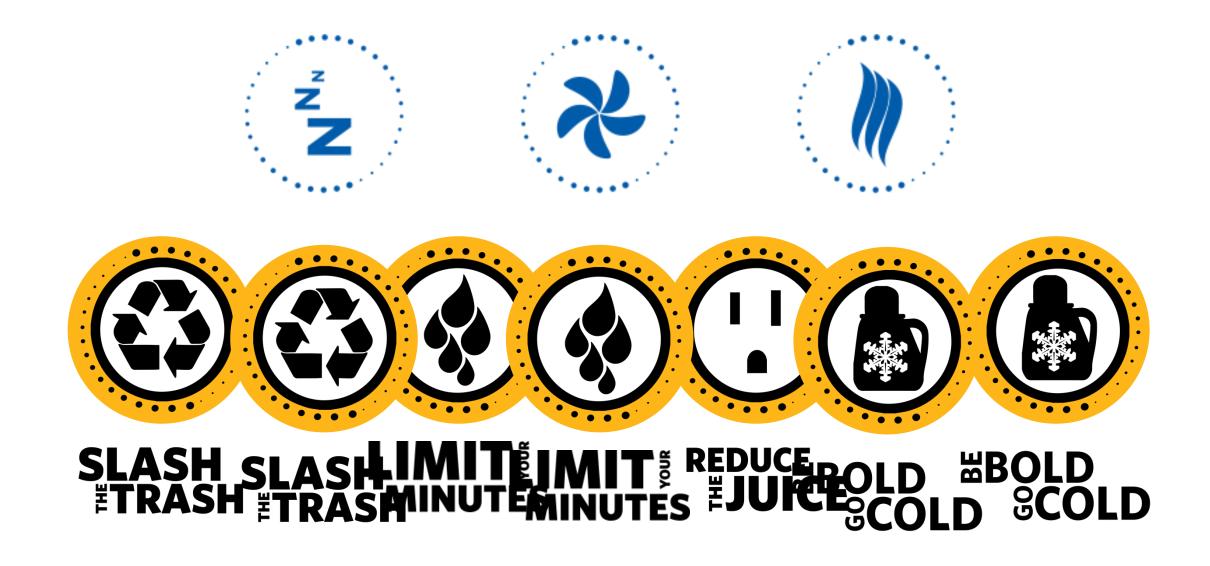
- Proven social-cognitive behavior change
- Increased organizational culture of energy conservation

- Integrates with current efforts
- Broadens and supports successful initiatives

ENERGY CONSERVATION THROUGH BEHAVIOR CHANGE®



Program Development and Evolution



Shower Prompts



Shampoo, Condition, Soap, Shave, Rinse.

Try turning off the water when you are

Don't spend extra time in the Shower.

BOLD

WWW.UMASSD.EDU/GREEN

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SCOLD

not rinsing.

Get Out Sooner







Data Collection and Distribution



Please complete both sides of the survey and return to your RA

We are interested in your opinion regarding environmental aspects of residential life at UMassD. Please read each item carefully and consider the corresponding scale, then place a mark that most accurately reflects your opinion.

Please answer questions with respect to your opinions and behaviors while on campus and skip questions that do not apply to you or your living situation at UMassD.

Please indicate your level of agreement with each of the followi	ng
statements regarding energy at LIMaccD	

Your level of consumption impacts budgets and the UMassD community.

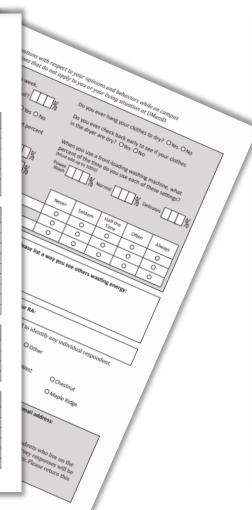
2019

statements regarding energy at UMassD.	Disagree	Disagree	Neutral	Agree	Agree
Energy Conservation is important here at UMassD.	0	0	0	0	0
UMassD should conserve energy.	0	0	0	0	0
I should help UMassD conserve energy.	0	0	0	0	0
It is my right to use as much energy as I want.	0	0	0	0	0
Recycling is important here at UMassD.	0	0	0	0	0
My personal actions, in combination with others, have a significant	0	0	0	0	0

Did you know?	Yes	No
Washing clothes in hot water uses more energy than washing them in cold water.	0	0
Many electronics consume energy while plugged in, even when not in use.	0	0
Leaving a fan on in an unoccupied room does not make it cooler because it just re-circulates the same air.	0	0
Over 75% of the waste stream is recyclable.	0	0
UMassD uses a single stream recycling program (paper, cardboard, plastic, metal, and glass in the same bin).	0	0
Over 24% of the waste stream is compostable.	0	0
UMassD has a collection process for uneaten food.	0	0
On average, each American throws away 1lb of food daily.	0	0

Please answer the following regarding your behaviors on campus.	Never	Seldom	Half the Time	Often	Always
When I leave my unoccupied bedroom, I turn off my fan.	0	0	0	0	0
I turn off the water faucet while I am brushing my teeth.	0	0	0	0	0
I use a reusable water bottle.	0	0	0	0	0
I am mindful to only take as much food as I will eat.	0	0	0	0	0

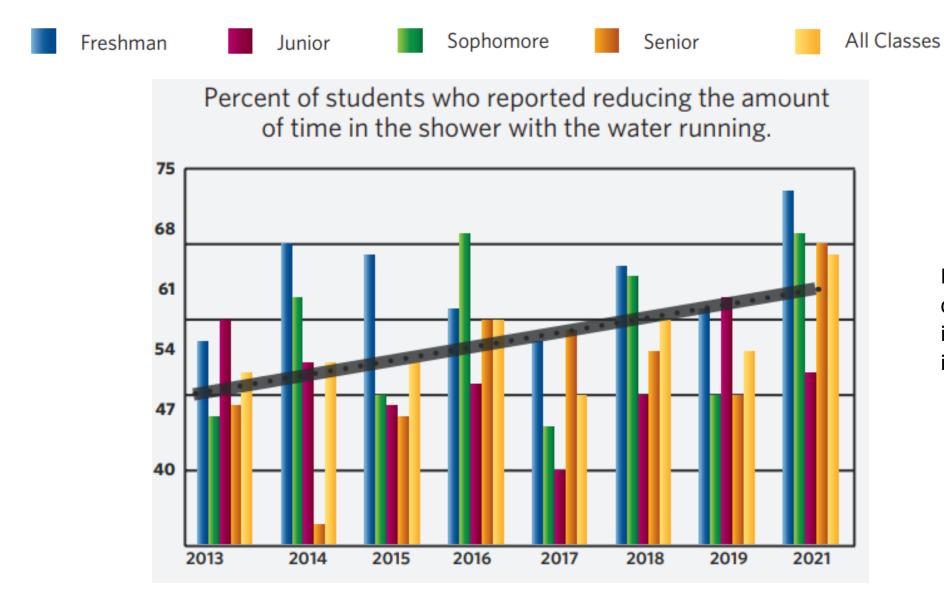
Please answer the following regarding your recycling on campus.	Never	Seldom	Half the Time	Often	Always
I recycle in my residence hall.	0	0	0	0	0
I recycle around campus.	0	0	0	0	0
I am mindful to place recyclable material in the appropriate bin.	0	0	0	0	0
Bin placement and capacity is sufficient in my residence hall.	0	0	0	0	0
Bin placement and capacity is sufficient around campus.	0	0	0	0	0
University staff properly process the recycling bins.	0	0	0	0	0



0



Longitudinal Data – Shower Behavior



All Classes
Linear Trend line

Note: Shower Study conducted in 2015 with increased positive results in subsequent years



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