

NJDEP RECYCLING AWARD

Bergen New Bridge Medical Center

230 E Ridgewood Ave, Paramus, NJ 07652

November 1, 2023

Food Waste Reduction using WasteWatch powered by Leanpath



Bergen New Bridge Medical Center Introduction

- Operated by Care Plus Bergen - 6 years ago (not for profit)
- Over 1,000 bed hospital
- Both the largest hospital and licensed nursing home in NJ
 - Satellite offices in Bergenfield, Englewood and Paterson
- Fourth largest publicly owned hospital in the nation.
- Not-for-profit safety net facility,
- A clinical affiliate of Rutgers
- Many Recognitions & Awards including:
 - LeapFrog Top Hospital & Safety Grade A
 - Leapfrog Top teaching Hospital
 - The Joint Commission Gold Seal



Bergen New Bridge Medical Center

Introduction

- Services Include:
 - Acute and ambulatory care
 - Mental health
 - Substance use disorder treatment
 - Long term care
 - 24/7 Emergency department
 - Surgical suites, physical rehabilitation, pharmacy, laboratory, radiological services (newest digital mammography), COVID Testing, vaccinations and therapeutics.



Bergen New Bridge Medical Center - Introduction

- Sabyan Matli is a Registered Dietitian
- Bergen New Bridge Medical Center Director – Food and Nutrition
- Leading a team of 120 team members
- Over 15 years in the food and nutrition industry



Agenda:

- NJ legislation
- BNBMC Waste Prevention
- Education & Outreach
- Coverage
- Leadership & Innovation
- BNBMC Other Sustainable Initiatives & Awards

NJ LEGISLATION P.L. 2020 C.24

- The legislation states: P.L. 2020 c.24 requires establishments who generate a projected volume of 52 tons of food waste or more per year to source separate and recycle their food waste. If your establishment fits into one of the following categories and generates more than **52 tons** of food waste per year, you must comply with the law: commercial food wholesaler, distributor, industrial food processor, supermarket, resort, conference center, banquet hall, restaurant, educational or religious institution, military installation, prison, hospital, medical facility, or casino.

"BY ADDRESSING FOOD WASTE, WE HAVE AN OPPORTUNITY TO ADDRESS TWO OF THE BIGGEST PROBLEMS FACING OUR PEOPLE AND OUR PLANET: CLIMATE CHANGE AND FOOD INSECURITY."

- LEANPATH CO-FOUNDER AND CEO ANDREW SHAKMAN

NBMC Food Waste Prevention

Tracking began April 1th, 2022, to April 30th, 2022, providing a projection of what New Bridge Medical Center is producing in food waste per year

New Bridge Medical Center Food waste Recorded for the 4-week period

Baseline: 8,230 lbs, 813 transactions

Projected for 2022: ~ 49 Tons

MEASURABLE OUTCOMES AND DOCUMENTATION

January 1, 2022, to December 31, 2022

Food Waste Recorded

58,115 lbs = ~ 29 tons

Transactions Recorded

6,548

Food Waste Prevented

11,129 lbs

Food Waste Reduction

16%

EDUCATION AND OUTREACH

MyWatch Moments



Q: What is “food insecurity?”

A: “Food insecurity” means not having reliable access to healthy food.

Momentos MyWatch en español

P: ¿Qué es “inseguridad alimentaria”?

R: La “inseguridad alimentaria” significa no tener acceso confiable a alimentos saludables.

**THE AVERAGE
AMERICAN**
throws away
**209 to 254
POUNDS**
of edible food
EACH YEAR.

WatchPalabras en español

Un estadounidense promedio desecha
209 a 254 LIBRAS de alimentos
comestibles cada año.

WatchWords



Culinary Team Meeting Agenda

Multiple Sites - Multiple Locations
October 12, 2023 - October 18, 2023

Section #3: Goals Review

Check in on your progress on your goals.

Site Name	Location Name	Goal Name	Food Name	Loss Reason	Last Week's Average Weight	Goal Weight
New Bridge Medical	New Bridge Medical Trayline	Vegetable - 10/02/2023	Vegetable	All Loss Reasons	263.77 LB	87.51 LB
New Bridge Medical	New Bridge Medical Kitchen	Vegetable - 10/02/2023	Vegetable	All Loss Reasons	288.13 LB	87.55 LB

Question: What three ideas do your team have to accomplish your goals?

- 1.
- 2.
- 3.

Section #4: Team Recognition

Celebrate your team members for tracking waste.

Top participant this period: Bevan Johnson – 22 Transactions

Notes

Team engagement



Team Engagement— Wasteless Week

EDUCATION AND OUTREACH

FOOD WASTE NOT ON MY WATCH

At Sodexo, our mission is to improve the quality of life in the communities we serve all around the world. Given our corporate footprint and food purchasing reach, fighting the global crises of climate change and hunger must be part of that mission. Sodexo is championing these efforts by reducing the amount of food that goes to waste on our watch.

Sodexo began developing its food waste prevention program, WasteWatch powered by Leanpath (WWxLP), over 10 years ago, and Sodexo groups have been deploying it at sites across the globe. Using scales paired with tablet computers to quantify and identify causes and means of disposal, Sodexo locations have reduced food waste by 50%.

SODEXO IS COMMITTED TO DEPLOYING WWxLP AT:

100% of sites by **2025**
3,000 sites globally in the next **12 MONTHS**

OUR REASONS WHY

we committed to combating global hunger and climate change by implementing WasteWatch powered by Leanpath (WWxLP) as part of our daily operations at every food service location.

! IT'S IMPORTANT

HUNGER AND CLIMATE CHANGE ARE A GLOBAL CRISIS

Did you know?

- 870 million people go hungry daily
- 1 in 7 Americans face food insecurity
- 1% of the food produced globally goes to waste

Reducing food loss and waste is how we can ensure there is enough food for everyone.

- Climate change is already causing damage to communities across the globe
- Efficiencies across the supply chain reduce the emission of greenhouse gases.

♥ IT'S RIGHT

OUR GLOBAL PRESENCE REQUIRES GLOBAL LEADERSHIP

We serve:

- 100 million customers a day
- At 13,000 sites
- In 72 countries

WWxLP demonstrates our global leadership in pursuit of critical change.

Sodexo is committed to improving the well-being of those we serve by:

- Fighting hunger and malnutrition
- Reducing carbon emissions
- Championing sustainability

Addressing wasted and surplus food anchors corporate responsibility into our daily operations.



EDUCATION AND OUTREACH - Nationwide GOALympics results - Healthcare

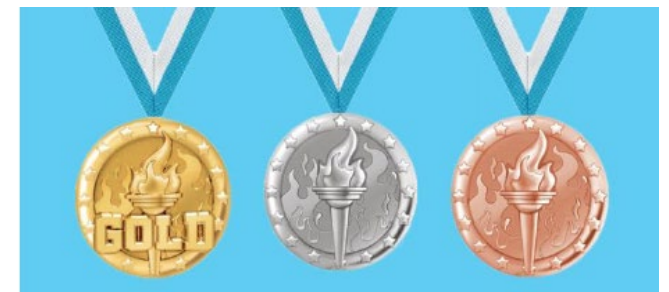


Healthcare Medal Recap:

Team Endurance

Contest for registered users of WasteWatch Powered by Leanpath

- “Weight” Lifting: Sweeping the Category!
- **GOLD: NEW BRIDGE MEDICAL CENTER**
- SILVER: Sharp Grossmont Hospital
- Bronze: Sheppard Pratt Towson



Components of the Program



Improved forecasting



Batch cooking



Café Specials



Promotions included Zero-Waste with Plant-Based menu special



Receiving



Review of weekly Leanpath reporting of *top wasted foods* and *loss reasons* with BNBMC FN and culinary team members, Champion, Co-Champion and managers to review ways to further reduce food waste.

Lean Path Reporting:

Date Range: **Custom** | View Data As: **Weight** | Group Data By: **Day**

Start Date (MM/DD/YYYY): **10/17/2022** | End Date (MM/DD/YYYY): **10/23/2022**

[Apply Filters](#) | [Show All Filters](#) | [Learn More](#)

10/17/2022 - 10/23/2022 / By Weight / By Day / All Locations

WASTE VALUE

\$945.50

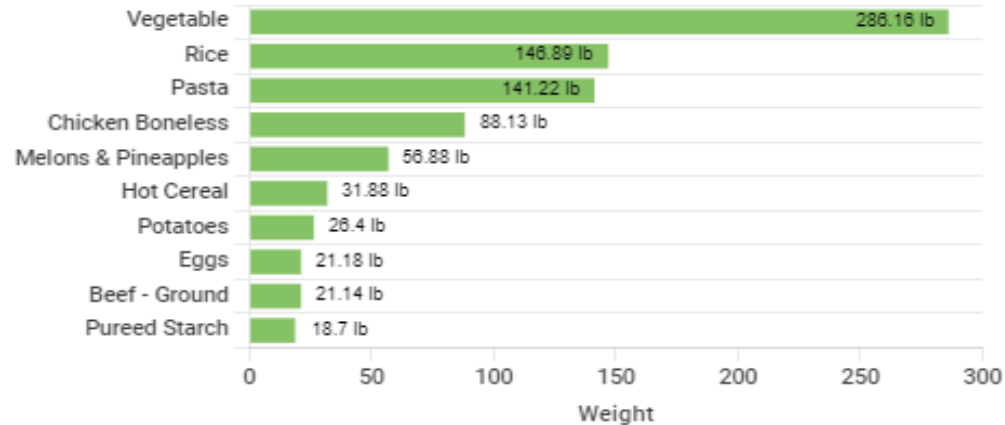
WASTE WEIGHT

864.64 LB

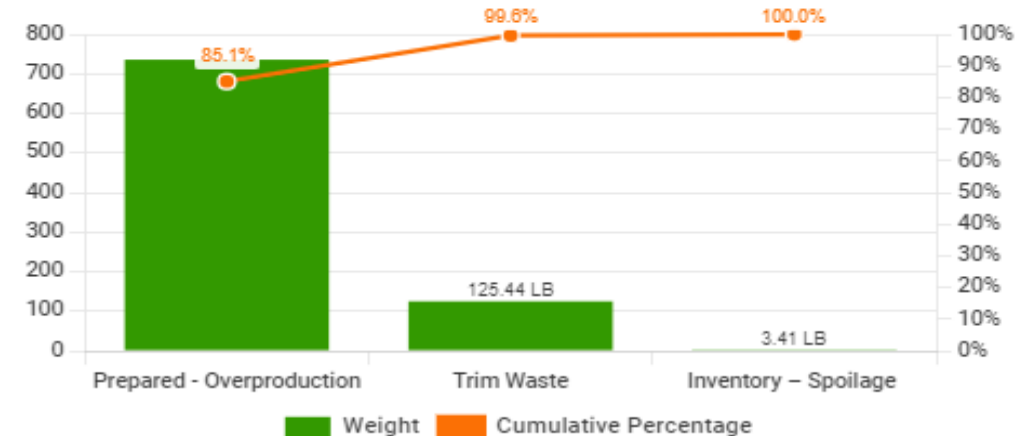
WASTE TRANSACTIONS

85

TOP WASTED FOODS



TOP LOSS REASONS



Food Waste Profile

JANUARY 2022 - DECEMBER 2022

Waste Recorded

58,115 LB

Transactions Recorded

6,548

PROJECTED ANNUAL FOOD WASTE

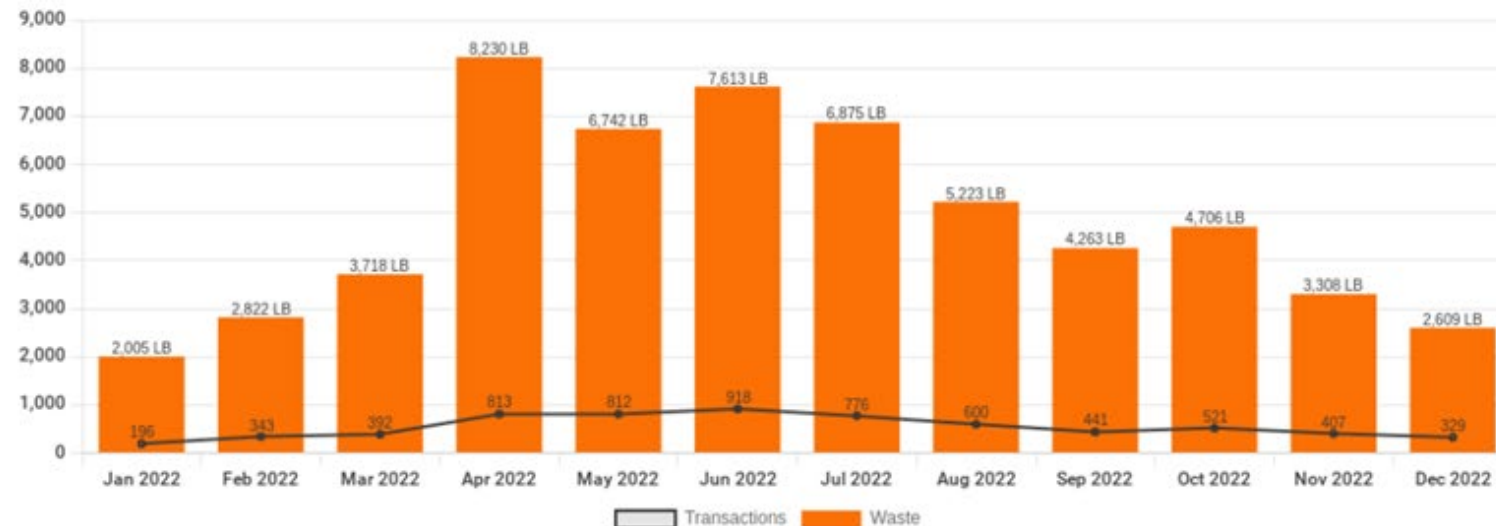
Waste Projection

58,115 LB

Projection based on waste levels from January 2022 - December 2022.



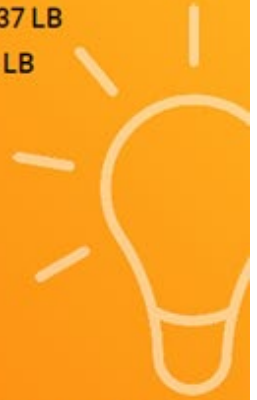
WASTE TREND



Why Waste is Occurring

The top reasons food waste is occurring in your operations:

1. Prepared - Overproduction — 43,433 LB
2. Trim Waste — 7,105 LB
3. Prepared - Expired — 2,888 LB
4. Inventory — Spoilage — 2,737 LB
5. Equipment Failure — 1,240 LB



Did you know?

Understanding why food waste is occurring is critical to creating effective plans for preventing it in the future. Every time a staff member records food waste with Leanpath, they capture the reason for the waste, empowering your chefs to turn their food waste data into action.

Prevention Impact

JANUARY 2022 - DECEMBER 2022

Reduction	Waste Prevented
▼16%	11,129 LB

SINCE PROGRAM START

Reduction	Waste Prevented
▼19%	14,562 LB

CUMULATIVE WASTE PREVENTED FOR JANUARY 2022 - DECEMBER 2022



Measuring Prevention

Waste prevention is measured by comparing the change in food waste levels over time against each location's unique waste baseline.

Baselines are set at the beginning of the program to establish average food waste levels prior to working on prevention.

Sustainability & Social Impact

Your food waste prevention impact is equivalent to...



JANUARY 2022 - DECEMBER 2022

Avoiding emissions from

35

metric tons of CO2



Conserving

124,001

bathtubs of water



Saving

9,274

meals

SINCE PROGRAM START

Avoiding emissions from

46

metric tons of CO2

Conserving

162,246

bathtubs of water

Saving

12,134

meals

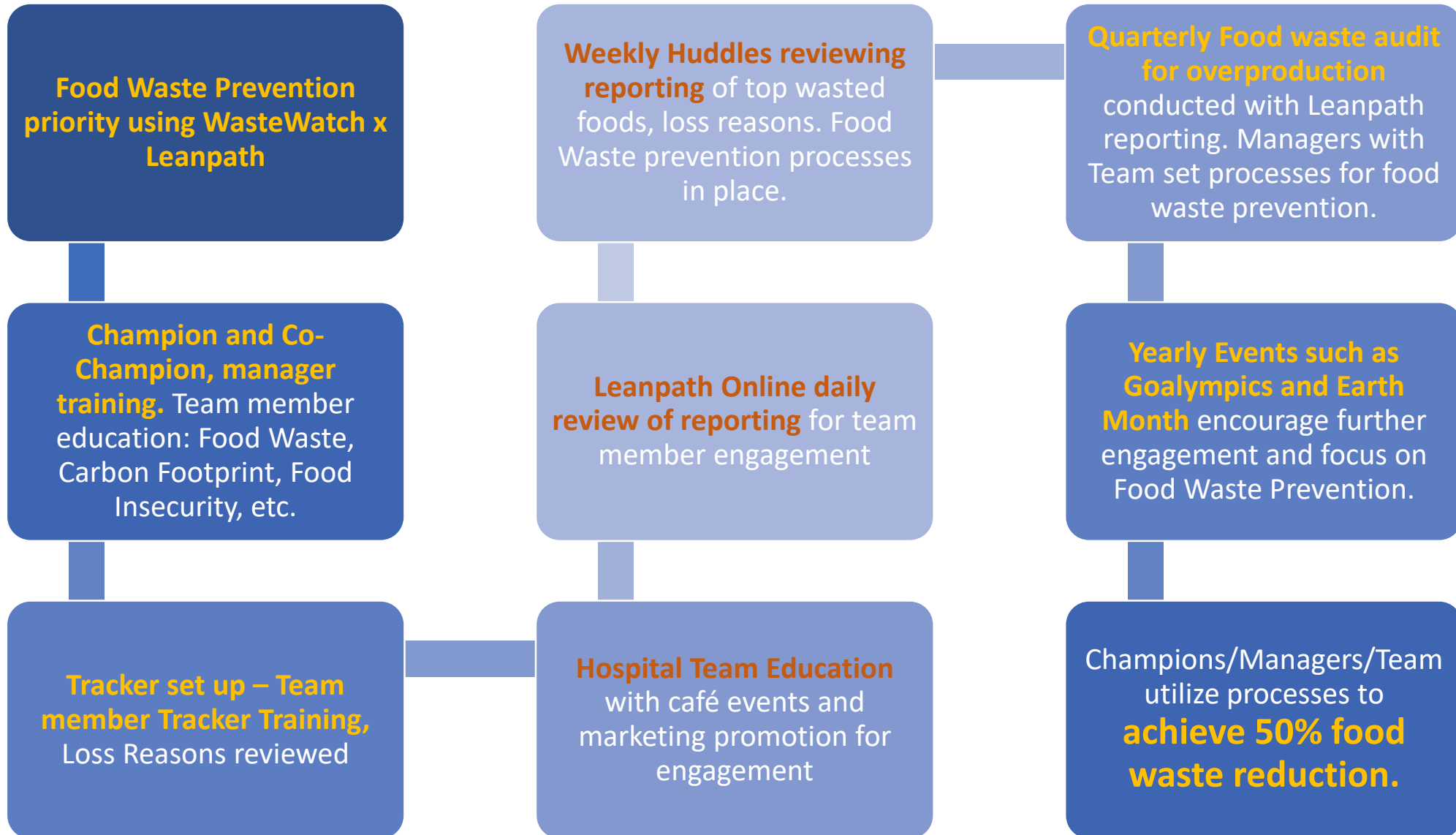
You are part of a critical global movement.

By reducing food waste, you are addressing the top-ranked solution for emissions reduction per [Drawdown Project](#), and you are advancing critically-needed progress toward [Target 12.3](#) – the UN's Sustainable Development Goal calling for a 50% reduction in global food loss and waste by 2030.

Equivalency factors provided by the US EPA and USDA.



Summary- Process Flow Chart



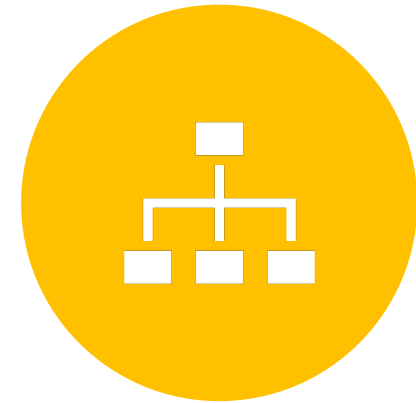
LEADERSHIP



QUARTERLY FOOD WASTE AUDITS ARE PERFORMED ASSESSING LEFTOVER FOOD FROM PATIENT MEAL PRODUCTION



DATA IS REVIEWED WITH BNBMC CULINARY TEAM AND ADJUSTMENTS ARE MADE TO FUTURE PRODUCTION BASED ON PERCENTAGE OF OVERPRODUCTION.



CHAMPION, CO-CHAMPION, AND MANAGERS REVIEW DATA FOR PROCESSES IN PRODUCTION, SEASONAL MENU PLANNING, RECEIVING AND PURCHASING.



BNBMC Other Sustainable Initiatives & Awards

- Waste Management Single stream recycling
- Styrofoam Recycling
- PSE&G Upgrades (BPU – Clean Energy Program)
- Outside Garden – Long Term Residents
- Horiculture Program
- Mop buckets to micro fiber

Recycling

- Waste Management Single stream recycling includes:
 - Plastics 1 – 7 (bottles, containers)
 - Newspapers, Magazines, Paper, paperboard, dairy/juice containers
 - Cardboard, Brown Paper bags
 - Tin / Steel Cans / Aluminum tins (Mostly from Kitchen)
 - Glass bottles/Jars
 - Video: <https://www.youtube.com/watch?v=OcgqQBbssqM>
- Styrofoam Recycling
 - Bergen County Densifying machine
 - Village of Ridgfield Park
 - “RecycleTech Corp” densifying machine
 - Recommendation: Reach out to your County



<p>XT70 Multiple Foam Densifier</p> <p>XT70</p> <ul style="list-style-type: none">- Materials: EPS, EPP, EPE, & PSP- Weight : 908 lbs- Capacity : 50 lbs/hour- Overall Dimensions : 31"(W) X 43"(L) X 55"(H)- Hopper Opening : 17" X 12"- Power Requirements : 220 Volt / 3 Phase / 60 Amp (60 Amp circuit breaker required) 	<p>XT200 Compact Foam Densifier</p> <p>XT200</p> <ul style="list-style-type: none">- Weight : 1400 lbs- Capacity : 200 lbs/hour- Overall Dimensions : 47"(W) X 43"(L) X 65"(H)- Hopper Opening : 25" X 20"- Power Requirements : 220 Volt / 3 Phase / 60 Amp (60 Amp circuit breaker required)Check our "Wet" model 
<p>XT400 Mid-Size Foam Densifier</p> <p>XT400</p> <ul style="list-style-type: none">- Weight : 5500 lbs- Capacity : 400 lbs/hour- Overall Dimensions : 97.5"(W) X 128(L) X 129"(H)- Hopper Opening : 34.5" X 29"- Power Requirements : 480 Volt / 3 Phase/ 70 Amp 	<p>XT500 Mid-Size Foam Densifier with Conveyor System</p> <p>XT500</p> <ul style="list-style-type: none">- Weight : 5500 lbs- Capacity : 500 lbs/hour- Overall Dimensions : 97.5"(W) X 128(L) X 129"(H)- Hopper Opening : 34.5" X 29"- Power Requirements : 480 Volt / 3 Phase/ 70 Amp 

PSE&G Upgrades (& Other NJ Utilities) – BPU

<https://www.njcleanenergy.com/residential/programs/comfort-partners/comfort-partners>



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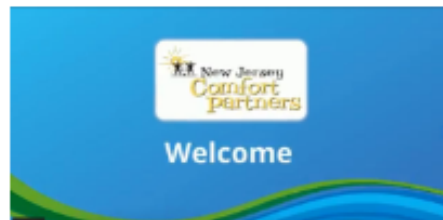
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Comfort Partners

The New Jersey Comfort Partners Program is a free program that helps income-eligible customers reduce their utility bills through implementing cost effective measures which save energy and money while improving their home's safety and comfort at no cost to them.



Comfort Partners has helped over 126,000 families since the program was launched in 2001! [Read more here](#) or click the image below to watch a video introduction to Comfort Partners.



Through Comfort Partners, the New Jersey Board of Public Utilities (NJBPU) and your electric and natural gas utilities partner with you to reduce your energy use and utility bills, improve your comfort, and increase the health and safety of your home.

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PSE&G Upgrades (& Other NJ Utilities) – BPU

For More Information, Fill Out the Form Below or Call:

800-915-8309 (Option 1)

The Comfort Partners Program takes a comprehensive approach to energy savings, including considering efficiency, building performance, and health and safety issues.

If eligible, participants receive:

- All recommended efficiency measures and energy education services - free of charge.
- Installation of cost-effective energy efficiency measures in the home (determined on a home-specific basis). These can include:
 - Efficient lighting products;
 - Hot water conservation measures (water heater insulation, water heater pipe insulation and energy-saving showerheads and aerators);
 - Replacement of inefficient refrigerators;
 - Thermostats;
 - Insulation upgrades (attic, wall, etc.);
 - Air sealing;
 - Duct sealing and repair;
 - Heating/cooling equipment maintenance;
 - And other measures.
- Comprehensive, personalized energy education and counseling.

PSE&G Upgrades (& Other NJ Utilities) – BPU Phone Numbers to know!

BPU Clean Energy Program - Call for your Free Energy Audit		
	Commercial & Industrial program	Residential Program
Public Service Electric & Gas	844-300-7734	855-846-2895
Atlantic City Electric	833-223-7297	866-353-0007
Jersey Central Power & Light	866-527-5249	800-915-8309
Rockland Electric	800-701-0952	973-232-0728

BNBMC - PSE&G Upgrades

- Lights to LED
- Motion detectors for lights
- Building 11 AHU
 - BNBMC Selected for CIANJ/Commerce Magazine Environmental Leadership Award in the reducing Carbon footprint category. – April 21, 2023
- Enhancement in both air quality and carbon emissions

Bergen New Bridge Medical Center Selected for CIANJ/COMMERCE Magazine Environmental Leadership Award

The Medical Center is being recognized for reducing its carbon footprint



Commerce & Industry Association of NJ

Long Term Residents Garden



Horticulture Program

- Fully Supported by Volunteers
- BNBMC is a Recipient of The National Garden Bureau Therapeutic Garden Grant Award (October 2023)
- Includes Onsite Greenhouse
- Two screened three-season porches within Long Term Care suitable for wheelchair users
- An Outdoor seating area with two large multi-Level L-shape raised planters
- Greenhouse programs includes 30 sessions over a month
- Facilitates one on one interaction
- Designed for adult residents with multiple complex physical, complex, cognitive, psychological and/or social challenges that require regular daily regimen of care and attention by qualified health professionals.



Our Vision

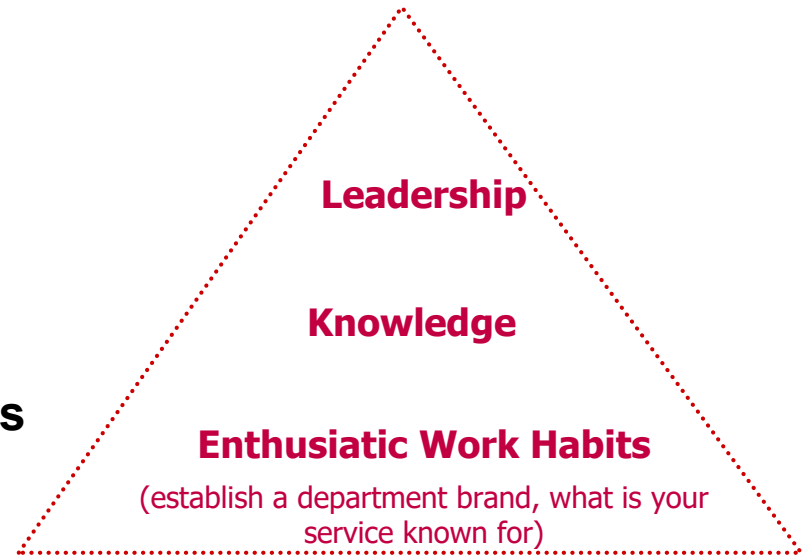
Mops to Microfiber Vision

- Implement the Micro-Fiber process in the 3rd. Qtr. Of 2022.
- Success of implementation can largely be traced to communication of roll-out, selecting the areas where we could achieve the most success, the enthusiasm of the EVS staff and the focused discipline of the EVS management team.
- Reduction in water usage and utility cost, commonly attributed to traditional cleaning methods.
- Success to be measured by previous utility invoices and chemical reduction expenses.
- Success was also measured, by happier customers, knowing that the equip. for cleaning was used only in their space.
- Improved patient HCAHPS scores

NBMC
Environmental
Services, Our
Guiding Principles

Mops to Microfiber Implementation

- **Hardwiring For Excellence**
- **Establish Goals & Routine Review**
- **Share and Delegate the Goals**
- **Train & Retrain**
- **Share Score Cards Progress**
- **Round For Outcomes**
- **Celebrate the Wins**
- **Thank The Team**



EVS Goals

- Reduction in water utility usage and cost
- Reduction in chemical usage
- Cost effective because there is no need to spend money on throw away materials
- Overall improvement in consistency and quality

Right Tools for Today's Business (Evolving and Innovation). Leveraging Technology

Housekeeping Cart

Micro-Fiber Cart Set-up



Old Loop Mop and Bucket



Microfiber Mop

Micro-Fiber Mop Head & handle



Old Loop Mop and Handle



Microfiber Pad

Micro-Fiber Pads



Old loop mops



Micro-fiber System Summary

Market What You Do

OLD SYSTEM

- Bucket & Wringer
- Enormous volumes of water and harsh chemical usage
- Frequent changing of water and solution every 2-3 rooms
- Manual Chemical Mixing.

NEW MICRO-FIBER SYSTEM

- Conserves water, reduces the use of disposable products
- Requires fewer if any harsh chemicals
- The density of a microfiber pad hold t-8 times its weight in water. Therefore, it requires less or no frequent changing of chemicals and high-water usage,
- Since Microfiber products are light and ergonomic, they are less labor intensive than conventional cleaning tools, thus increase productivity while reducing workers' injuries and compensation claims

EVS: Our Financial Profile Then & Now

The EVS department uses approximately 36 (8) gallon buckets for water. Each buckets water should be changed every 2-3 rooms and as needed. Using this example the staff on a daily basis over three shifts be required to change the water in Their buckets between 737 times to 1106 times

Changing water every 2 room -737 water changes times 8 Gallons = 5,896 gallons of water daily used for cleaning floors
Changing water ever 3 rooms - 1106 water changes times 8 gallons = 8,848 gallons of water daily used for cleaning floors

2018 Water utility cost

\$403,063.20

2019 Water utility cost

\$377,136.19

2020 Water utility cost

\$396,541.91

2021 Water utility cost

\$335,465.75

2022 Water utility cost

**(implemented in
October 2022.)**

\$319,176.74

2023 Water utility cost

**through Sept. 5th. =
\$199,717.90. Projection the
remaining 15 months of
2023 would add approx.
\$80,966.71 for a **year end
total of \$280,684.07****

**IN ESSENCE MICRO-FIBER PROVES TO
BE ALSO GREEN FRIENDLY**

Example cost comparison between conventional wet loop mops and microfiber mops

	Microfiber Mop	Conventional Loop Mop
Mop Costs		
Cost	\$17.40	\$5.00 each
Washing Lifetime	500 - 1000	55 to 200
Rooms Cleaned Per Washing	1	22
Cost Total	\$174 to \$3.48 per 100 rooms	\$11 to \$41 per 100 rooms
Labor Cost		
Rooms Cleaned per Day	22 per eight hour shift	20 per eight shift
Labor Cost	\$12 per hour	\$12 per hour
Cost Total	\$436 per 100 rooms	\$480 per 100 rooms
Chemical Cost		
Quantity of Chemicals	0.5 ounces per day	10.5 ounces per day
Cost of Chemical	\$.22 per ounce	\$.22 per ounce
Rooms Cleaned Per Day	22	20
Cost Total	\$0.50 per 100 rooms	\$11.55 per 100 rooms
Water Use		
Quantity	1 gallon	21 gallon
Rooms Cleaned	22	20
Cost Total	5 gallons per 100 rooms	105 gallons per 100 rooms
Electricity Usage (Washing)		
Cost	\$0.30 per mop	\$1.00 per mop
Rooms Cleaned	once per room	once per day
Cost Total	\$30 per 100 rooms	\$5 per 100 rooms
Total Costs		
	\$468 to \$470 per 100 rooms per day	\$497 per 100 rooms per day
Microfiber mops use 95% less water and chemicals		



Thank You

Questions?