

OUR COMMITMENT TO

# SUSTAINABILITY

2024



MONUMENT HEALTH

TH STREET ENTRANCE

1



MONUMENT  
HEALTH

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**MAKE A  
DIFFERENCE.  
EVERY DAY.**

## MONUMENT HEALTH'S MISSION TO MAKE A DIFFERENCE EVERY DAY INCLUDES DOING OUR PART TO CREATE A SUSTAINABLE AND HEALTHY ENVIRONMENT.

We strive to improve the environmental performance of our health care services and facilities, while reducing our environmental footprint. Our efforts are driven by continually seeking fiscally and socially responsible approaches to improve patient safety while protecting public health.

Our organization is committed to making communities healthier and to protecting the environment by creating a systemwide culture of sustainability modeled by all Monument Health caregivers, creating a sustainability team to research and implement best practices and pursuing additional ways to reduce and process waste.



## ENVIRONMENTAL STRATEGY KEY THEMES:

# 1

### **Managing Energy, Water, and Emissions Responsibly:**

Striving to reduce the amount of energy and water used, decarbonizing energy production, and decreasing indirect emissions through purchasing sustainable supplies and minimizing use.

# 2

### **Sustainable Sourcing and Waste Reduction:**

Limiting our impact on the environment and waste facilities by sourcing materials responsibly, reducing consumption, reusing where possible, and minimizing food waste.

# 3

### **Community and Social Impact:**

Promoting and encouraging social sustainability within the Monument Health organization and surrounding community.

# OUR SUCCESSES IN 2024

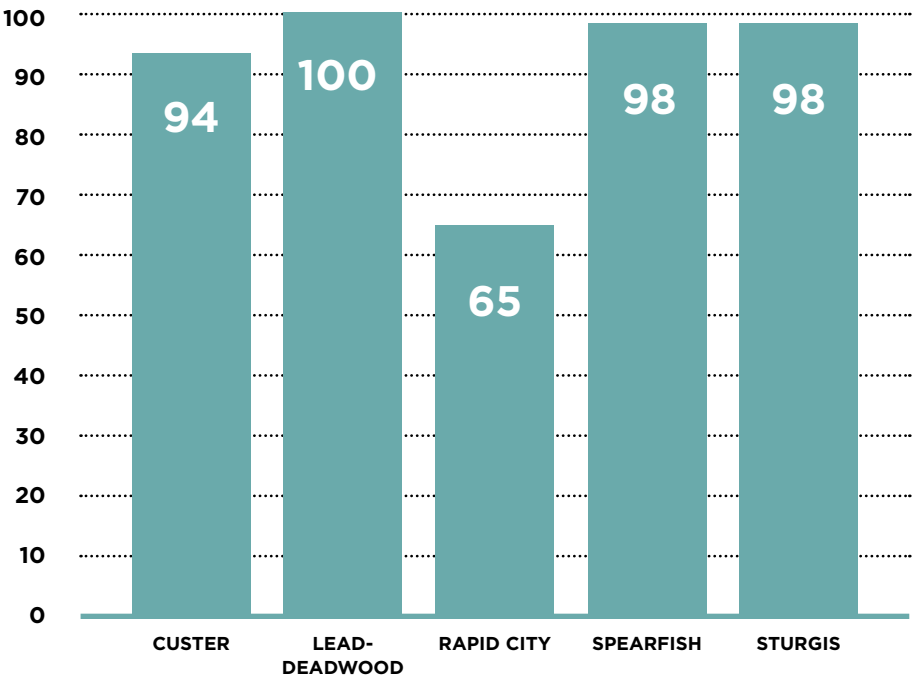
## Energy Star Usage Tracking

One of Monument Health's sustainability goals for 2024 was to implement a third-party tracking system for energy usage system wide.

In 2024, each of our five Monument Health community hospitals were entered into the EPA's Energy Star website for tracking usage of electricity, natural gas, and water. Each hospital's utility and site data have been entered for the past 24 months.

Tracking through this system allows facility managers at each site to track progress, identify trends and opportunities for improvement.

## ENERGY STAR SCORES - MARKETS



**THE RAPID CITY HOSPITAL** campus building controls operating sequence for its Central Utility Plant (CUP) was audited and adjusted to better optimize heating and cooling efficiencies completing a stated 2024 goal.





**LED Light Conversion**

Another energy reduction goal for 2024 was pushing forward to eliminate fluorescent lighting and reducing mercury through the process.

Lighting retrofits to replace the remaining fluorescent lighting in our buildings with higher-efficiency, mercury-free LED lighting and installing more automated lighting control systems to dim or turn off lighting when not in use. We made significant strides towards accomplishing this goal.

**CONVERSION PERCENTAGES FOR EACH OF THE MONUMENT HEALTH HOSPITALS:**

	CUSTER	LEAD-DEADWOOD	STURGIS	SPEARFISH	RAPID CITY
CLINICS	100%	100%	100%	80%	70%
HOSPITALS	100%	100%	80%	90%	70%
SENIOR CARE	N/A	N/A	100%	N/A	N/A



# STAYING FOCUSED ON THE FUTURE





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**As Monument Health sets new goals and identifies additional opportunities to maximize sustainability, there are certain activities which will remain constant.**

The activities we plan to make standard practices are built into our maintenance plans as areas of continuous focus and improvement.

One of these activities is conducting systematic annual reviews. Two formal methods for accomplishing this are through an annual energy audit and facility condition assessment update. Completing reviews annually ensure systems are working as expected, identifies areas for improvement, and allows for future planning and capital budgeting as systems age and become less efficient. The annual reviews also allow us to stay in close contact with our material condition and current with the latest technologies and techniques for making energy efficiency gains.

Another area of continued focus is the implementation of a comprehensive cleaning and updating policy for the HVAC units supplying air to the systems hospital facilities. This proactive approach resulted in a notable savings in energy use on the units undergoing this maintenance. With a commitment to enhancing energy efficiency, Monument Health extended this initiative in 2024 by cleaning and updating six additional air handling units (AHU). By continuing to prioritize the upkeep of these systems, the hospital not only achieves cost savings but also contributes significantly to a more sustainable and environmentally friendly operation.

While Monument Health understands the importance of continuously improving efficiency to use less energy, we must simultaneously drive our systems to use technologies and strategies aimed at reducing our emissions. Like our use of wind and solar, we will continue to investigate the infrastructure needed to add more efficient heating and cooling systems to our new projects. Monument Health also has internal programs to evaluate purchased supplies for sustainability and minimize indirect emissions through our supply sources. These initiatives will continue as we remain focused on sustainability.

# WATER: A VITAL RESOURCE

**Water is a vital resource, and our society must increasingly protect it as communities grow.** Monument Health is working to reduce our water consumption through several efforts.

New plumbing fixture styles have significantly improved water use through automatic controls and efficiency. Monument Health uses these new plumbing fixtures when constructing and renovating our facilities.

Hospital cooling and heating systems use significant amounts of water to provide both occupant comfort and the high-quality conditions expected in state-of-the-art clinical spaces. Nalco, an industry leader in water treatment, provides a treatment program to use fewer chemicals and minimize our heating and cooling systems' water use through automated controls and quality management.



**Our grounds team have implemented multiple strategies to conserve water system wide. Some of their activities include:**

1. Installation of rain sensors on all irrigation clocks, so that when rain is sensed, the sprinklers don't turn on automatically.
2. All irrigation clocks are set with seasonal adjustments.
3. Regular checks of irrigation systems to ensure all sprinklers are working as they should.
4. Installation of drip irrigation systems with emitters specific to the water requirements for each individual plant.
5. Prioritizing use of native plants adapted to the local climate, reducing the need for supplemental watering and maintenance.
6. Adjustment of mower height during the heat of the summer to conserve water. The longer grass leaves shade the soil, reducing water loss.
7. Managing stormwater runoff by incorporating features like rain gardens, swales and permeable pavements.





# SUSTAINABLE SOURCING AND WASTE REDUCTION

## Food Sourcing, Options and Waste

Monument Health offers a variety of healthy and sustainable food choices promoting physical and mental well-being. Monument Health's food offerings include plant-based menu options and use local ingredients and sustainably sourced food. Monument Health is continually seeking ways to reduce food-related energy use and conserve resources, such as water, as well as effectively manage and lower the amount of waste generated.

Monument Health reduces food waste by participating in the WasteNot 2.0 Program with Compass Group, offering plant-based menu items and utilizing local ingredients. We are also increasing the number of recipes use root-to-stem cooking methodology.

## Product Sourcing, Materials Management

Monument Health's Supply Chain established environmentally friendly considerations that are utilized when soliciting and selecting products and services.

- **Prioritize durable products:** Choose products that are not single-use or disposable.
- **Consider the product's life cycle:** Think about the product's environmental impact throughout its life, including manufacturing, use, and disposal.
- **Use energy-efficient products:** Selecting productions with an Energy Star® rating, when available.
- **Use recycled materials:** Choose products that are made from recycled materials or have recyclable packaging.
- **Use non-toxic materials:** Choose products that are non-toxic or minimally toxic.
- **Consider local production:** Look for products that are produced locally or regionally.

## Waste

Monument Health utilizes chemicals in our facilities to treat and heal patients and to clean, disinfect and sterilize supplies and surfaces. It is crucial our methods of waste management consider our patients, caregivers, local communities, and the environment. Our partner for Environmental Services is Crothall, a recognized industry leader in quality housekeeping services in healthcare.

We are committed to reducing unnecessary waste and ensuring all waste is managed appropriately.

We utilize Clean Waste Systems' Ozone medical waste treatment system (shredder/sterilizer) as our primary waste processor. This system reduces GHG emissions and drastically reduces the volume of waste going to the landfill. Using this waste treatment processing methodology, Monument Health has reduced its GHG emissions by approximately 15,500,000 kg per year. This is a 76% reduction as compared to our previous processes of hauling our medical waste out of state for processing.

Monument Health participates in Stericycle's Sharps Management Service. We have avoided the production of an estimated 66,100 pounds, by the utilization of nearly 13,000 reusable containers.

Monument Health engages with several local specialized waste management processors with recycling outlets for metal, cardboard, electronics, and repurposing furniture and other equipment.

## Reprocessing

Monument Health partners with Stryker Sustainability Solutions to use Food and Drug Administration (FDA)- approved reprocessed single-use devices to reduce waste and save costs. Reprocessing extends the life of these products and reduces material consumption. Our efforts have resulted in 10,700 pounds of single-use devices being diverted from landfills.





BY USING CLEAN WASTE SYSTEMS' OZONE MEDICAL WASTE TREATMENT SYSTEM, WE REDUCED OUR GREENHOUSE GAS EMISSIONS BY APPROXIMATELY

**15,500,000  
KG PER YEAR,  
A 76%  
REDUCTION**



USING STERICYCLE'S SHARPS MANAGEMENT SERVICE, WE HAVE AVOIDED THE PRODUCTION OF AN ESTIMATED **47,842 LBS.**

BY THE UTILIZATION OF NEARLY

**9,101  
CONTAINERS**



BY PARTNERING WITH **STRYKER** SUSTAINABILITY SOLUTIONS TO REPROCESS SINGLE-USE DEVICES,

**12,200  
POUNDS**  
HAVE BEEN DIVERTED  
FROM LANDFILLS



# COMMUNITY AND SOCIAL IMPACT

Social sustainability is broad, encompassing labor laws, human rights, workplace safety, employee health and wellness and nuanced subjects like diversity and inclusion. It also includes actions considered outward facing, such as employee engagement, philanthropy and community engagement. At its core, successful social sustainability practices have a positive impact on both the business operations of a company and the communities they serve. Creating a formal mechanism for employees to volunteer can address both, resulting in a win-win for all involved.

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MONUMENT HEALTH  
HAS FIVE PRIORITIES,  
INCLUDING, **“BE A  
GREAT PLACE TO  
WORK,”** AND **“IMPACT  
OUR COMMUNITIES.”**





WE CARRY OUT THESE OBJECTIVES IN SEVERAL WAYS, INCLUDING:

**VOLUNTEERISM  
AND COMMUNITY  
BENEFIT HOURS**

**28,377**

**VOLUNTEER HOURS**  
were contributed by Monument  
Health caregivers in 2024

**↑ THIS IS A  
14% INCREASE**

**COMMUNITY HEALTH  
SCREENINGS**

**18,664**

**FREE COMMUNITY  
HEALTH SCREENINGS**  
were completed in 2024

**↑ THIS IS A  
33% INCREASE**

**ORGANIZING  
BLOOD DRIVES**

**18**

**COMMUNITY  
BLOOD DRIVES**  
hosted by Monument Health  
in FY24 through partnerships  
with Vitalant and LifeServe

**REDUCING  
WORKPLACE  
VIOLENCE**

A new Visitor Management  
System was implemented at  
Rapid City Hospital to

**ENHANCE SAFETY  
AND SECURITY FOR  
PATIENTS, CAREGIVERS  
AND PHYSICIANS**

by providing access to the facility  
and streamlining check-in of the  
more than 800 daily visitors.

**FOCUSING ON  
DIVERSITY AND  
INCLUSION**

Monument Health was  
honored to receive the

**2024 DIVERSITY AND  
INCLUSION AWARD  
PRESENTED BY  
ELEVATE RAPID CITY**

in recognition of our continued  
commitment to Diversity, Inclusion  
and Health Equity. Monument  
Health hosts monthly Cultural  
Diversity Gatherings.

**PROMOTING  
EMPLOYEE HEALTH  
AND WELL-BEING**

**The Monument Health LiveWell  
program** is available at no cost  
to all caregivers and includes  
several benefits to promote both  
physical and mental well-being.

- Free access to Noom program for healthy behavior change
- Mental Health First Aid training/certification
- HealthPartners Employee Assistance program
- Onsite Caregiver Support Therapist
- Free and discounted access to onsite gym use and memberships
- Access to outdoor walking paths



# GOALS AND FUTURE STRATEGIES



## THIRD PARTY AUDITS AND PROGRAMS

- Conduct annual checkups and updates to our energy audit and facility condition assessments to build a culture of continuous improvement.
- Achieve a minimum certification of one Green Globe via Green Building Initiative (GBI) on new construction projects.



## REDUCE OUR CARBON FOOTPRINT

- By year 2035 we will:  
Reduce Greenhouse gas emissions by 50%
- By year 2050 we will:  
Reach net zero emissions





## REDUCE ENERGY USAGE

- Conduct a review of all variable air volume (VAV) boxes and remove inactive VAVs from use.



## SOURCE SUSTAINABLE EQUIPMENT AND SUPPLIES

- When determining supplier and product selection, consider quality as well as environmental impact.
- Look upstream by studying incoming material and then reduce both inputs and outputs together to achieve greater reductions in total waste cost.



## IMPROVE WATER USE EFFICIENCY

- Increase focus on usage, collection and conservation in building systems and in landscaping/grounds operations.
- Water meters installed on mains and irrigation systems to collect data for water tracking and future conservation methods.
- Evaluate water use cycles of concentration through the cooling towers and boiler blowdown sequencing to have maximum efficiency.



## ENERGY

- Update LED lighting as repaired and replaced.
- Performing steam trap assessments to reduce carbon and energy consumption within the building for HVAC and Sterilization.
- Evaluate and make programming improvements to the Rapid City hospital's Central Utility Plant operating sequences and air handling units to utilize heating and cooling more efficiently.
- Clean heat transfer coils from Air Handling Units, saving 20% in energy costs from air side energy.

# IDENTIFIED WASTE STREAMS AND CURRENT PERFORMANCE

WASTE STREAM	ESTIMATED ANNUAL USAGE/SAVINGS - 2022 (BASELINE)	ESTIMATED ANNUAL USAGE/SAVINGS - 2023	ESTIMATED ANNUAL USAGE/SAVINGS - 2024
<b>Water</b>	57,495 cubic feet (Rapid City Hospital)	57,160 cubic feet (Rapid City Hospital)	*62,310 cubic feet (Rapid City Hospital)
<b>Sharps</b>	Stericycle's Sharps Management Service avoided the production of an estimated 66,160 pounds, through the utilization of nearly 13,000 reusable containers.	Stericycle's Sharps Management Service avoided the production of an estimated 100,610 pounds, through the utilization of nearly 20,912 reusable containers.	Stericycle's Sharps Management Service avoided the production of an estimated 47,842 pounds, through the utilization of nearly 9,100 reusable containers.
<b>Regulated Medical Waste</b>	2,454,000 pounds	2,540,000 pounds	2,554,000 pounds
<b>Recycled Cardboard</b>	405,600 lbs.	312,000 lbs.	**624,000 lbs.
<b>Medical Equipment</b>	<ul style="list-style-type: none"> <li>• Convoys of Hope - 2 semi-trucks full of donated equipment and medical supplies, including patient beds were repurposed.</li> <li>• Green Wizard - Picks up electronics/IT/metal for recycling. Average 1 pallet per week @ 350 lbs. per pallet.</li> </ul>	<ul style="list-style-type: none"> <li>• Green Wizard - Picks up electronics/IT/metal for recycling. Average 1 pallet per week @ 350 lbs. per pallet.</li> </ul>	<ul style="list-style-type: none"> <li>• Bridges of Hope, Inc - 7,200 lbs of donated medical supplies and medications were sent to Liberia, Africa</li> <li>• Green Wizard - Picks up electronics/IT/metal for recycling. Average 1.5 - 2 pallets per week at 450 lbs. per pallet.</li> <li>• Matter 360 - 39 patient hospital beds were donated and repurposed in Africa</li> </ul>
<b>Hazardous Air Pollutants</b>	8.8 tons (Rapid City Hospital)	8.9 tons (Rapid City Hospital)	8.8 tons (Rapid City Hospital)
<b>Electricity (Black Hills Energy)</b>	45,917,000 Kilowatt Hours	45,808,000 Kilowatt Hours	45,964,000 Kilowatt Hours

\*Water use in 2024 was higher due to a large leak in one of our RCH cooling towers.

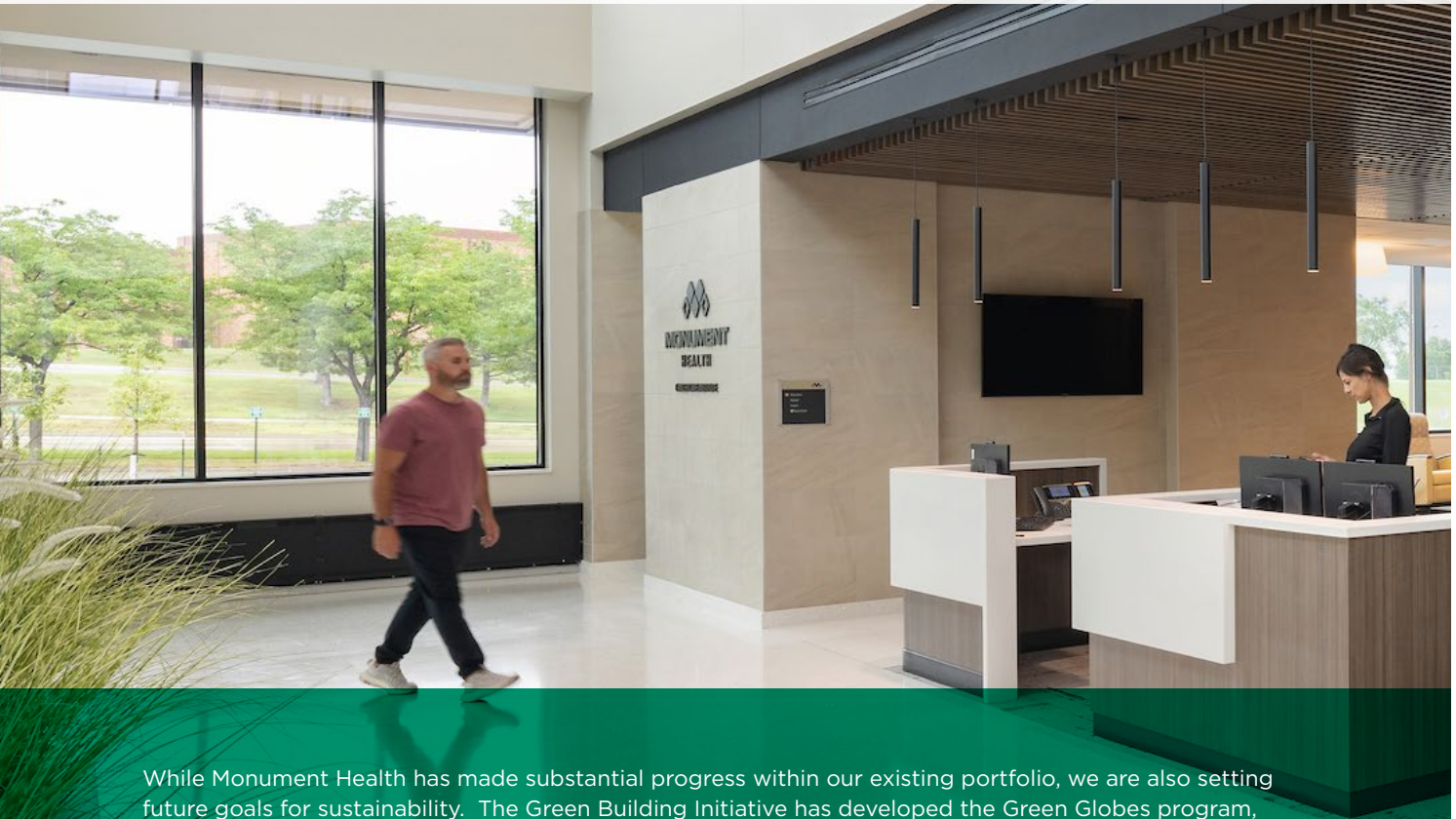
\*\*Recycled Cardboard - previous years data were estimated. Actual data collection started 2024.



WASTE STREAM	ESTIMATED ANNUAL USAGE/SAVINGS - 2022 (BASELINE)	ESTIMATED ANNUAL USAGE/SAVINGS - 2023	ESTIMATED ANNUAL USAGE/SAVINGS - 2024
<b>Natural Gas (Rainbow Gas)</b>	System Usage 2022 MMBtu= 164,608	System Usage 2023 MMBtu= 168,126	System Usage 2024 MMBtu= 171,534
<b>Transportation</b>	<ul style="list-style-type: none"> <li>Total Fleet Vehicles - 123</li> <li>Fuel Usage - 97,339 gallons</li> <li>CO2 Emissions - 947.6 tons</li> <li>Distance Driven - 1,524,625 miles</li> </ul>	<ul style="list-style-type: none"> <li>Total Fleet Vehicles - 124</li> <li>Fuel Usage - 91,506 gallons</li> <li>CO2 Emissions - 928.8 tons</li> <li>Distance Driven - 1,587,197 miles</li> </ul>	<ul style="list-style-type: none"> <li>Total Fleet Vehicles - 123</li> <li>Fuel Usage - 98,313 gallons</li> <li>CO2 Emissions - 737.1 tons</li> <li>Distance Driven - 1,601,679 miles</li> </ul>
<b>Pharmaceutical &amp; Hazardous Waste</b>	<ul style="list-style-type: none"> <li>Methanol/Ethanol solution - 3387 lbs.</li> <li>Methanol, acetonitrile - 527 lbs.</li> <li>Arsenic Trioxide - 6 lbs</li> <li>Corrosive Liquid, acidic - 16 lbs.</li> <li>Oxidizing Solid - 8 lbs.</li> </ul>	<ul style="list-style-type: none"> <li>Methanol/Ethanol solution - 3,974 lbs.</li> <li>Methanol, acetonitrile - 509 lbs.</li> <li>Arsenic Trioxide - 14 lbs.</li> <li>Corrosive Liquid, acidic - 6 lbs.</li> <li>Oxidizing Solid - 5 lbs.</li> <li>Aerosols (as inhalers) 110 lbs.</li> <li>RCRA Pharmaceutical Waste - 35,236 lbs.</li> </ul>	<ul style="list-style-type: none"> <li>Methanol/Ethanol solution - 2,334 lbs.</li> <li>Methanol, acetonitrile - 344 lbs.</li> <li>Arsenic Trioxide - 0</li> <li>Corrosive Liquid, acidic- 0</li> <li>Oxidizing Solid - 0</li> <li>Aerosols (as inhalers) - 114 lbs.</li> <li>RCRA Pharmaceutical Waste - 36,873 lbs. Dual Waste (Pharmaceutical with Biohazard Waste) - 963 lbs.</li> </ul>
<b>Medical Devices &amp; Supplies</b>	Partnership with Stryker, 10,743 pounds of waste was diverted from the landfill.	Partnership with Stryker, 13,382 pounds of waste was diverted from the landfill.	Partnership with Stryker, 12,223 pounds of waste was diverted from the landfill.
<b>Food</b>	<ul style="list-style-type: none"> <li>1% (82 lbs.) of food waste was kept out of the landfill</li> </ul>	<ul style="list-style-type: none"> <li>1% (195 lbs.) of food waste was kept out of the landfill</li> <li>Feed hungry people - 70 lbs.</li> <li>Feed animals - 38 lbs.</li> <li>Composting - 87 lbs.</li> </ul>	<ul style="list-style-type: none"> <li>1% (332 lbs.) of food waste was kept out of the landfill</li> <li>Feed hungry people - 180 lbs.</li> <li>Feed animals - 8.5 lbs.</li> <li>Composting - 143.8 lbs.</li> </ul>
<b>Light Bulbs</b>	Not tracked	346 pounds	693 pounds
<b>Trash, Old Corrugated Cardboard (OCC)</b>	Rapid City Market <ul style="list-style-type: none"> <li>2,420 Total tons</li> <li>58 Tons OCC "cardboard"</li> <li>1.12 Tons Comingle REC</li> <li>1,350 Tons from Ozone Compactor</li> </ul>	Rapid City Market <ul style="list-style-type: none"> <li>2,310 Total tons</li> <li>58 Tons OCC "cardboard"</li> <li>0.65 Tons Comingle REC</li> <li>1,030 Tons from Ozone Compactor</li> </ul>	Rapid City Market <ul style="list-style-type: none"> <li>2,330 Total tons</li> <li>95 Tons OCC "cardboard"</li> <li>0.59 Tons Comingle REC</li> <li>1,280 Tons from Ozone Compactor</li> </ul>
<b>Systemwide Hospitals, Clinics and Business Occupancy Owned &amp; Leased</b>	2,571,407 square feet	2,574,048 square feet	2,576,350 square feet

\*Former shell space was infilled in various areas each year.

# CONSTRUCTION/ GREEN GLOBES



While Monument Health has made substantial progress within our existing portfolio, we are also setting future goals for sustainability. The Green Building Initiative has developed the Green Globes program, a comprehensive and flexible green building rating system. This program has demonstrated success on health care projects across the country. Monument has set a goal of attaining a minimum certification level of a single Green Globe on new construction projects.

## UNDERSTANDING GREEN GLOBES

As the health care industry increasingly acknowledges the importance of sustainability, we at Monument Health are seeking innovative ways to reduce waste and embrace environmentally conscious practices within new construction.

Green Globes is a green building certification program designed to assess and improve the environmental performance of buildings. This system provides a holistic framework for evaluating sustainability across various aspects of construction and operation. The program certifies buildings with a one to four Green Globe score depending on how many points are achieved out of the potentially available points for that project.



## STEPS TOWARD

# GREEN GLOBES CERTIFICATION

1

### **Pre-Design Assessment:**

- Evaluate the building site's environmental characteristics and identify opportunities for sustainable development.
- Onboard stakeholders early to establish preliminary energy efficiency goals and outline a plan for waste reduction.

2

### **Design and Construction:**

- Prioritize energy-efficient design elements, such as optimized HVAC systems, natural lighting, and efficient insulation.
- Implement waste reduction strategies, including responsible material selection, recycling programs, and construction waste management.

3

### **Energy Efficiency:**

- Adopt renewable energy sources, such as solar or wind power, to reduce reliance on non-renewable energy.
- Utilize energy-efficient technologies and systems, aiming for reduced energy consumption and lower carbon emissions.

4

### **Water Conservation:**

- Implement water-efficient plumbing fixtures and landscaping practices to minimize water consumption.
- Explore the use of rainwater harvesting systems to supplement water needs.

5

### **Indoor Environmental Quality:**

- Prioritize the use of lower chemical emitting materials to enhance indoor air quality for occupants.
- Design spaces that maximize natural light and ventilation, contributing to a healthier indoor environment.

6

### **Commissioning and Verification:**

- Verify the proper implementation of sustainable design elements through thorough commissioning processes.
- Conduct regular inspections and assessments to ensure ongoing compliance with Green Globes standards.



## THE BENEFITS FOR US AT MONUMENT HEALTH:

Green Globes encourages the reduction of construction waste through responsible practices, minimizing the environmental impact associated with building projects. By optimizing energy and water usage, we can lower operational costs while contributing to a more sustainable and resilient infrastructure. Achieving Green Globes certification demonstrates our commitment to environmental responsibility, fostering positive relationships with our community. By prioritizing sustainability through Green Globes certification, we will help to distinguish ourselves as leaders in environmentally conscious healthcare construction, attracting patients and staff who share these values.

### **Active Green Globe Projects:**

Within our active construction project and near future projects we are moving forward in pursuit of not only Green Globe certification but also implementation of

the program's principles when certification is not feasible. The following projects are using Green Globe guidelines and/or are pursuing certifications: Box Elder Urgent Care, Rapid Valley Urgent Care, Spearfish Hospital expansion, Women's & Children's expansion and our new Stand-Alone Emergency Department.

### **Thermal Storage for Energy Efficiency:**

We have design plans to add thermal (ice) storage at our Spearfish Hospital Addition, Children's Expansion and at our Mall Drive Campus. This methodology will allow us during summer months to make ice at night, place ice within underground storage tanks and then using the ice to help cool these facilities during daylight hours. This results in a substantial reduction in the cooling electricity used overall. While there are up front infrastructure costs to support this technique, the energy savings help provide a favorable payback period.



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