

Inova Health System



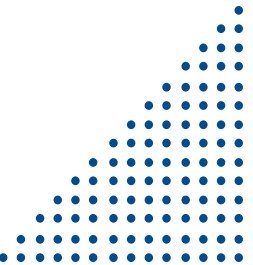
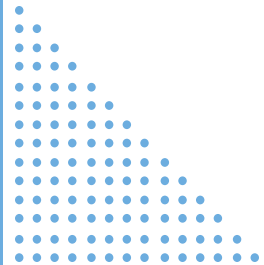
# 2021 Sustainability Report

Connecting *Your* Environment and *Your* Health



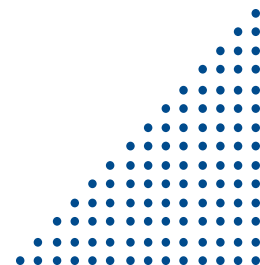
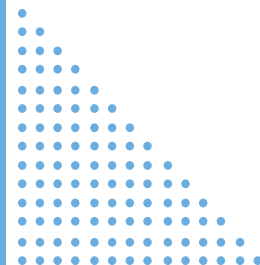
# Inova's Sustainability Mission Statement

*Inova is committed to establishing an environment that is safer and healthier for our patients, team members, and community*



# Table of Contents

<i>Goals &amp; Progress</i> .....	4
<i>Sustainability Benchmark Report</i> .....	5
<i>Sustainability Programs</i> .....	6
• <i>Waste</i> .....	6
• <i>Purchasing</i> .....	7
• <i>Water/Energy</i> .....	8
• <i>Transportation</i> .....	9
• <i>Buildings</i> .....	10
• <i>Engagement</i> .....	11
• <i>Food</i> .....	12
• <i>Climate &amp; Health</i> .....	13
<i>2022 Goals &amp; Opportunities</i> .....	14



# 2021 Goals & Progress

## Goal 1:

*Finalize new sustainability goals that include a SMART greenhouse gas reduction target.*

### Goal Status:

- Developed set of draft goals/targets, policies, implementation plans, and responsibilities matrix
- Shared draft goals and supporting documents with key stakeholders and held formal meetings
- Completed draft analysis on emissions reduction strategies to achieve new emissions targets

### Next Steps

- Present goal package to new sustainability leadership council for approval
- Disseminate goals and supporting materials to key leaders
- Establish plan for initial projects and begin to implement

## Goal 2:

*Establish leadership level sustainability council to fully integrate sustainability across Inova.*

### Goal Status:

- Sustainability Leadership Council charter developed and shared across organization
- Green building principles developed for eastern region and will serve as new standard for future projects

### Next Steps

- Present charter to Cabinet for approval to implement
- Finalize council members so meetings can begin
- Hold initial meeting and establish priorities for short and long-term

## Goal 3:

*Repurpose engagement efforts including new website and redeploy in-person initiatives.*

### Goal Status:

- New sustainability website went live
- Monthly newsletter articles and features in Inova media outlets
- Virtual Bike to Work and Alternative Transportation events
- In-person initiatives included, tree-sapling giveaway, tabling to promote alternative transportation, and in-person meetings/presentations on sustainability

### Next Steps

- As the pandemic subsides, continue to develop and participate in more in-person initiatives/events

## Goal 4:

*Initiate carbon reduction projects regarding electric charging stations, green energy, conservation and alternative transportation*

### Goal Status:

- Submitted proposal for new electric car charging stations at all sites
- Renewable energy purchased for 100% of electricity generation at Inova Alexandria
- Continued remote work and virtual patient appointments
- Energy related upgrades at existing facilities included lighting projects and HVAC system improvements

### Next Steps

- Final approval on electric vehicle charging stations projects
- Final determination of feasibility study on hybrid HVAC systems

## Goal 5:

*Continue collaborations with local, regional and national organizations to promote sustainability as good business and good for our health*





### Goal Status:




- Partnered with Champions of the Commute, a regional group of businesses looking at new transportation options
- Participated in the Fairfax County climate and energy community action plan, resulted in new carbon reduction goals for all of Fairfax County, VA
- Collaborated with Community Housing Partners and Healthcare Without Harm to offer weatherization services to low-income households in region.
- Partnered with Fairfax Releaf Inc. to provide tree seedlings to team members for both Earth Day and Fall event

### Next Steps

- Expand external reach and collaboration to position Inova as a sustainability leader in the region.

# Sustainability Benchmark Report

			SYSTEM DATA	NATIONAL AVERAGE	NAT'L 90TH PERCENTILE
LESS WASTE		Recycling as % of total waste	16.33%	24%	43%
		RMW as % of total waste	8.74%	6.7%	3.1%
		Solid Waste as % of total waste	73.99%	65%	62%
		Hazardous as % of total waste	0.94%	0.6%	0.4%
GREENING THE OR		% of green cleaning chemicals	Need Data	46%	44%
HEALTHY FOOD		% spend on sustainable foods	Need Data	11.2%	23.1%
		% spend on local foods	Need Data	6%	26%
		% meat raised without ABX	Need Data	20%	50%
WATER		Gallons per square foot	Need Data	42	22

			SYSTEM DATA	NATIONAL AVERAGE	NAT'L 90TH PERCENTILE
CLEANER ENERGY		Energy use intensity (EUI)	280	234	155
		% change in EUI from baseline	23%	11%	33%
		% offsite renewable energy	N/D	24.8%	35.6%
		% onsite renewable energy	0%	-	-
BUILDING		Building projects pursuing LEED	6	-	-
TRANSPORTATION		Alternative transportation mode split	23% - IFMC 16% - IMVH	-	-

# Waste

**Objective:**

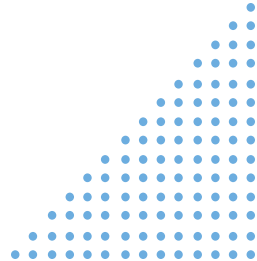
*Minimizing regulated medical waste (RMW), hazardous waste, and solid waste, while increasing reuse and recycling is crucial to reducing Inova's environmental impact and operational costs.*

**Inova's Progress:**

In 2021, Inova continued to reduce waste across the hospital system. In collaboration with a number of our key partners, we intensified our focus on RMW, hazardous waste and recycling.

**2021 achievements include:**

- Food composting pilot continued at Fair Oaks hospital, diverting ~31,200lbs of food waste for the year (~600lbs/week).
- Inova recycled 2,437,805lbs of comingled materials, an increase of 193,500lbs from 2020 numbers, due to team member efforts.
- Hazardous waste disposal dipped below our target threshold of 1% for the first time since 2018.
- As a system, RMW rates were lower than 10% for the second year in a row.
- Engaged with facility and departmental stakeholders to ensure containers and signage were readily accessible.
- Loudoun Hospital's Observation Unit significantly reduced admissions materials through a waste reduction effort.





# Sustainable Procurement

**Objective:**

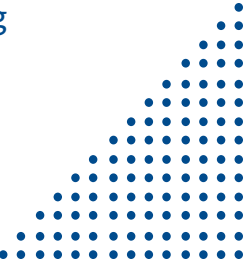
*Hospital supply chain teams have an opportunity to help shift the healthcare marketplace by using purchasing power to demand safer, healthier, more environmentally preferable products from supplier partners.*

**Inova's Progress:**

In 2021, we renewed our focus on environmentally preferable purchasing by continuing our integration with the Office of Supply Chain. This enabled sustainability to become a priority for the system, with sustainability team members often joining contract negotiations and discussions.

**2021 achievements include:**

- 100% of window/glass cleaners, 93% of floor cleaners, and 81% of carpet cleaning chemicals that Inova uses in our facilities are certified green chemicals.
- Rolled out phase two of reusable isolation gowns throughout the system, saving many tons of annual waste while further securing supply in case of future shortages.
- Supply Chain completed a comprehensive review of surgical custom packs, reducing economic and material waste in operating rooms across the system.
- Loudoun Hospital transitioned to digital consent forms, reducing paper usage.



# Water/Energy

**Objective:**

*In maintaining 24-hour operations, healthcare facilities consume large quantities of energy and water. Conserving these resources, and utilizing them more efficiently, is key to Inova's sustainability efforts.*

**Inova's Progress:**

In 2021, Inova's facilities teams helped the system adjust to the new normal that the COVID-19 Pandemic created. Inova was able to decrease its energy use intensity (EUI) despite increased usage of negative pressure rooms as well as an extremely busy emergency department and operating rooms.

**2021 achievements include:**

- Sustainability, Facilities Management and Engineering work together to implement water conservation practices and efficient equipment.
- With an EUI of 276, Inova reached and surpassed its 2020 goal of 277 a year later than anticipated (EUI of 283 in 2020) . This is a 20% EUI reduction from our 2012 baseline.
- A number of energy saving projects continued in 2021 ranging from new rooftop units, condenser water pumps, Building Automation Systems, air handler replacements, new refrigeration units and ongoing commissioning.
- Energy efficiency initiatives will continue to be incorporated in both renovation projects and equipment replacement to ensure that Inova's energy footprint is reduced.





## SUSTAINABILITY PROGRAM

# Transportation

### **Objective:**

*Alternative transportation reduces Inova's carbon footprint and positively contributes to better air quality and climate mitigation in our communities*

### **Inova's Progress:**

The Office of Sustainability continued its expansion of alternative transportation programming across the organization. IMVH along with IFMC/ICPH are required to execute transportation demand management programs with 15% and 20% of their team members required to use alternative transportation to get to work. These locations met these requirements again in 2021 and will build on this success moving forward.

### **2021 achievements include:**

- Promotion of team member-focused commuter offerings including WageWorks (a pre-tax payroll deduction commuter benefit), Inova's formal telework policy, free team member commuter shuttles, bike lockers/showers and preferred carpool parking spots.
- Inova continued its work with the Champions of the Commute, which includes a number of large businesses in the Capital region who's goal is to reduce congestion, improve air quality and make the region a more desirable destination to live, work and play.
- Inova executed a tele-visit initiative that had not existed previously. This tele-visit option is now reaching approximately 20,000 patients each month.





# Buildings

**Objective:**

*Healthy buildings result in healthier occupants, and we are committed to greening our buildings for patients, visitors, and team members.*

**Inova's Progress:**

Inova continues to incorporate green and healthy building principles into all projects across the system. The Office of Sustainability collaborated with Inova's Design and Construction team throughout the year to ensure that the system is building in an environmentally responsible manner.

**2021 achievements include:**

- Inova Fairfax continued its OR renovation project, which is projected to achieve LEED Silver.
- Inova began the development of three new major health care facilities in its Eastern Region: Oakville, Springfield and Landmark. The sustainability office, in collaboration with Inova's construction team, is working to make these buildings safe and sustainable. Each facility will achieve LEED Silver at minimum and will strive to electrify most major mechanical systems.
- *Adding Bullet regarding ICPH projects*





## SUSTAINABILITY PROGRAM

# Engagement

### Objective:

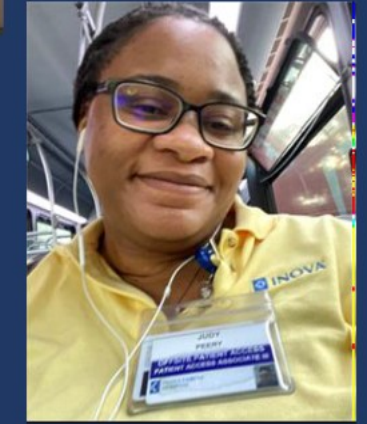
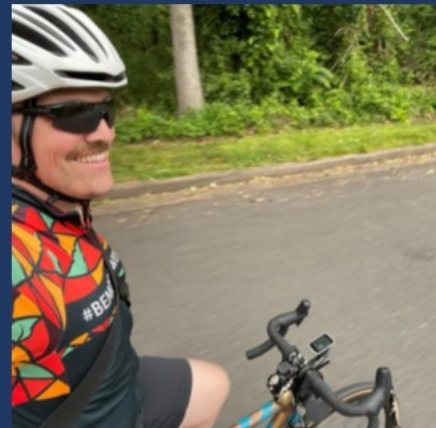
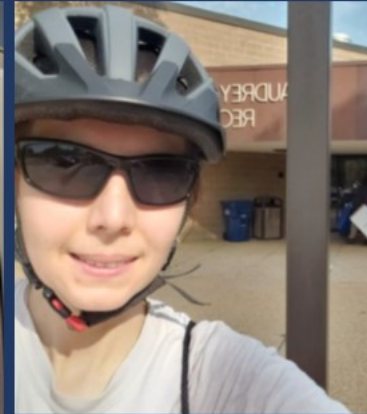
*Team member engagement has a direct impact on staff retention and well-being.*

### Inova's Progress:

Team member engagement is always a major focus at Inova, with events and activities at all of our hospitals and various non-hospital locations. In 2020, most of these events were suspended due to the COVID-19 Pandemic. In 2021, the Office of Sustainability restarted its in-hospital efforts.

### 2021 achievements include:

- Native Tree Giveaways - Inova gave out approximately 2000 native trees and shrubs to team members across the system via an Earth Day event and a fall planting event.
- Stream Cleanup - Inova's Life With Cancer hosted a local stream cleanup to decrease litter in the watershed.
- Bike To Work Day (BTWD) - The system celebrated BTWD in May/June, and rewarded team members that use alternative transportation to commute to work (pictured).
- GoingGreen Newsletter - Although we were unable to conduct any physical outreach during Inova's pandemic response, we continued our team member outreach via our monthly GoingGreen newsletter, which provides information about healthcare sustainability, local environmental initiatives and more.
- Annual Commuter Survey and Tables - This year's survey reached thousands of IMVH, IFMC, and ICPH team members through a combination of in-person and online responses.
- Waste Diversion Activities - Worked with functional leads and green team champions to address recycling challenges around containers, signage and more.



# Food

**Objective:**

*Hospital supply chain teams have an opportunity to help shift the healthcare marketplace by using purchasing power to demand safer, healthier, more environmentally preferable products.*

**Inova's Progress:**

In 2021, Inova continued its partnership with Morrison Food Services. The Office of Sustainability and Morrison continued quarterly data calls to review Inova's food purchases and convened monthly calls with hospital food services directors to discuss engagement opportunities. In an effort to capitalize on the healing potential of food, the Sustainability team works with partners to ensure our foods contribute to every patient's journey to peak wellness.

**2021 achievements include:**

- The sustainability team collaborated with Morrison to ensure that specific dairy products achieved rBGH-free certification and growth continued in other sustainability categories.
- In 2021, the Inova CSA sold more than 1,692 healthy sustainable food bags in support of team member health and local farms.
- An RFP for a system-wide food composting program was drafted and released for bid.
- The Sustainability team worked to maintain healthy food options and sustainable packaging; addressing supply chain challenges as they arose.
- Pop up retail offerings initiated in all Inova cafeterias, providing necessities to team members.
- Locally sourced food expenditures increased by \$87,650 in 2021.







## SUSTAINABILITY PROGRAM

# Climate & Health

### Objective:

*A changing climate has the potential to impact the delivery of service through storm-related damage and an increase in climate and health-related admissions.*

### Inova's Progress:

Inova's leadership in climate change and public health continued in 2021, with a number of our clinicians continuing to lead the efforts of the Virginia Clinicians for Climate Action (VCCA). VCCA steering committee members and Inova doctors participated in education events around the state as well as at internal events at Inova. VCCA members also spent time educating state lawmakers and the general public about the nexus between climate change and public health.

### 2021 achievements include:

- Inova hospitals were [awarded Practice Greenhealth's 'System for Change' sustainability award](#) in 2019, 2020, and 2021, one of only twelve systems in the nation to do so.
- Inova Alexandria Hospital now purchases 100% of its energy from [Dominion's 100% Renewable Energy program](#).
- The Office of Sustainability restarted its collaboration with GMU's Center for Climate Change Communications, developing a set of communication products meant to better communicate climate action to clinical professionals.



# 2022 Sustainability Goals & Opportunities

## Goal 1:

Finalize and publish comprehensive set of sustainability goals that includes carbon reduction.

## Goal 2:

Finalize and convene new sustainability leadership council to carryout strategies in support of new goals.

## Goal 3:

Initiate development of supply chain plan that includes identifying top carbon generating suppliers and strategies to reduce carbon emissions.

## Goal 4:

Continue extensive team member engagement campaign that includes electronic, virtual and in-person initiatives

## Goal 5:

Expand external reach and collaboration to position Inova as a sustainability leader in the region.