

Environmental Sustainability

Active and engaged environmental stewardship across the system is core to AdventHealth's mission.



Healthcare Sector Impact

8.5% of total U.S. greenhouse gas (GHG) emissions

Environmental Sustainability Framework

Encompasses how a company affects and is affected by the environment.

Impact



Emissions – Direct & indirect pollution

Response



Infrastructure – Design and construction



Waste – Excess or unused byproducts



Clinical Preparedness – Operations



Water – Irrigation and potable water

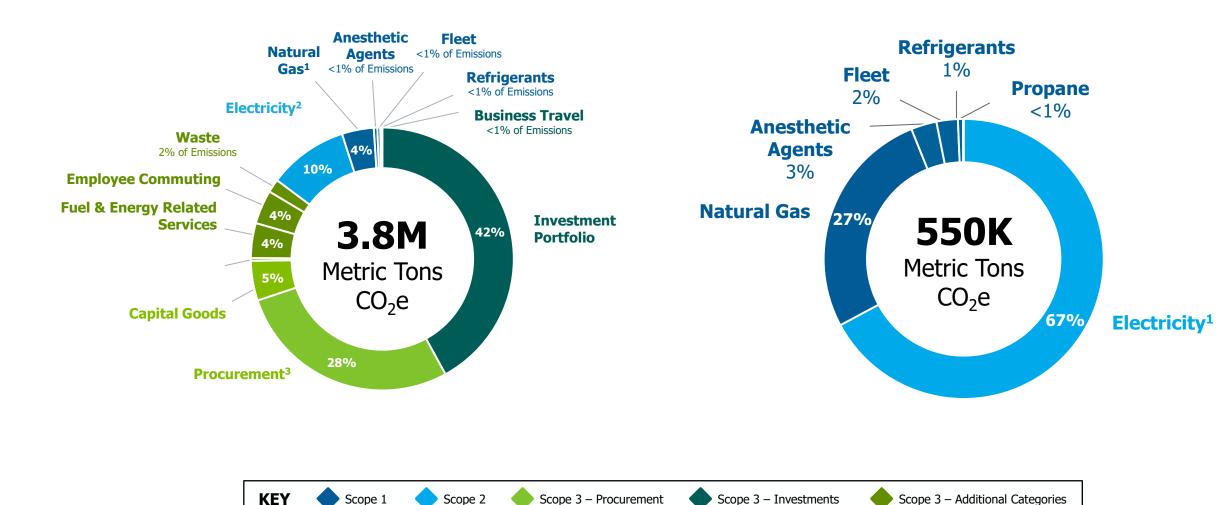


Compliance – Policy and governance



AdventHealth's 2023 Scope 1 & 2 Footprint

Scope 2



Scope 3 – Investments

Scope 3 – Additional Categories

Scope 3 – Procurement



HHS Climate Pledge Overview

AdventHealth signed the HHS Climate Pledge last year, which requires organizations to commit to short-term and long-term emissions reduction targets, alongside other criteria

SHORT-TERM TARGET (2030)

Reduce Scope 1 & 2 emissions by 50%

LONG-TERM TARGET (2050)

Reach Net Zero emissions across Scope 1, 2, & 3

ADDITIONAL CRITERIA

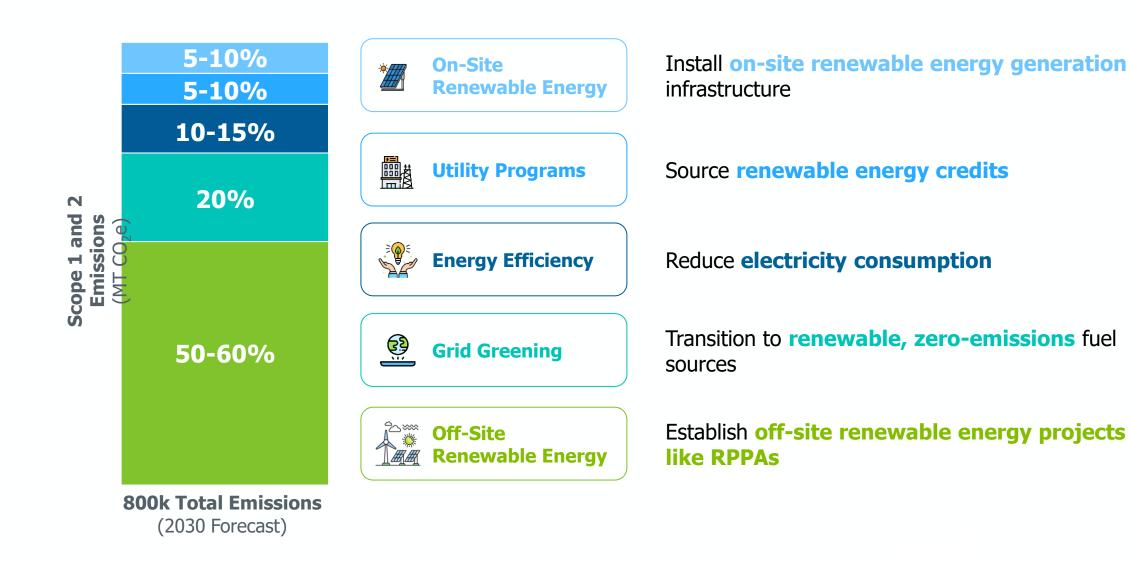
- ✓ Publicly report emissions and progress annually
- ✓ Designate an executive lead by end of 2023
- ✓ Conduct a Scope 3 inventory by end of 2024
- Develop and release a Climate Resilience Plan by end of 2023 that anticipates the needs of high-risk communities

PEER HEALTH SYSTEMS Providence Advocate Aurora Health Atrium Health Atrium Health



Levers to Reduce Scope 1 and 2 Emissions

Five levers will help AdventHealth achieve a 50% reduction in Scope 1 and 2 emissions by 2030



Brookfield and NextEra RPPA Deals



Technology / Location	Wind / West Texas
Offer Term	12 years
Operational Date	Currently Operational
Offtake Amount	380 GWh
Estimated NPV	\$20M



Technology / Location	Solar / West Texas
Offer Term	15 years
Operational Date	January 2026
Offtake Amount	640 GWh
Estimated NPV	\$90M

AdventHealth is on track to reach 100% renewable energy by 2026; both RPPA deals also help hedge against rising operational electricity costs

AdventHealth Grid Electricity Emissions Intensity

		s Intensity e/MWh)¹	% Change	202	22 Fuel Mix		Projected Intensity ²
	2021	2022	2021 - 2022	Lower Emission	Highe	er Emission	2030
Overall ³ (100%)	397	387	-2.6%	Renewable Nuclear ⁴ 11% 13%	Natural Gas	12%	291
Florida (FRCC) (74.6%)	380	371	-2.3%	6%12%	75%	6%	285
Illinois (RFCW) (5.8%)	478	457	-4.4%	8% 28%	32%	32%	352
Colorado (RMPA) ⁵ (5.0%)	530	514	-3.0%	40%	24% 3	37%	347
Texas (ERCT) (4.9%)	371	352	-5.3%	28% 9%	47%	16%	255
Kansas (SPNO) (4.7%)	454	436	-4.0%	41%	11% 11% 3	37%	269
All Others ⁶ (5.0%)	394	391	-0.6%	10% 23%	48%	18%	313

Based on latest available data, AdventHealth realized a 2.6% emissions intensity reduction from grid greening between 2021-2022; updated eGRID data for 2023 is expected in January of 2025

Energy Efficiency Current Areas of Focus



Facility Condition Assessments (FCA)



ENERGY STAR® Portfolio Manager (ESPM)



Energy Vendor Assessment

- Prioritize operationally-critical capital projects
- Implement energy saving measures and identify corporateled initiatives
- Integrate hospital energy use intensity into Energy Star
- Track energy performance against state and local regulations (e.g., Energize Denver requirements)
- Evaluate potential energy service and equipment vendors
- Develop partnership model to support AdventHealth energy program objectives

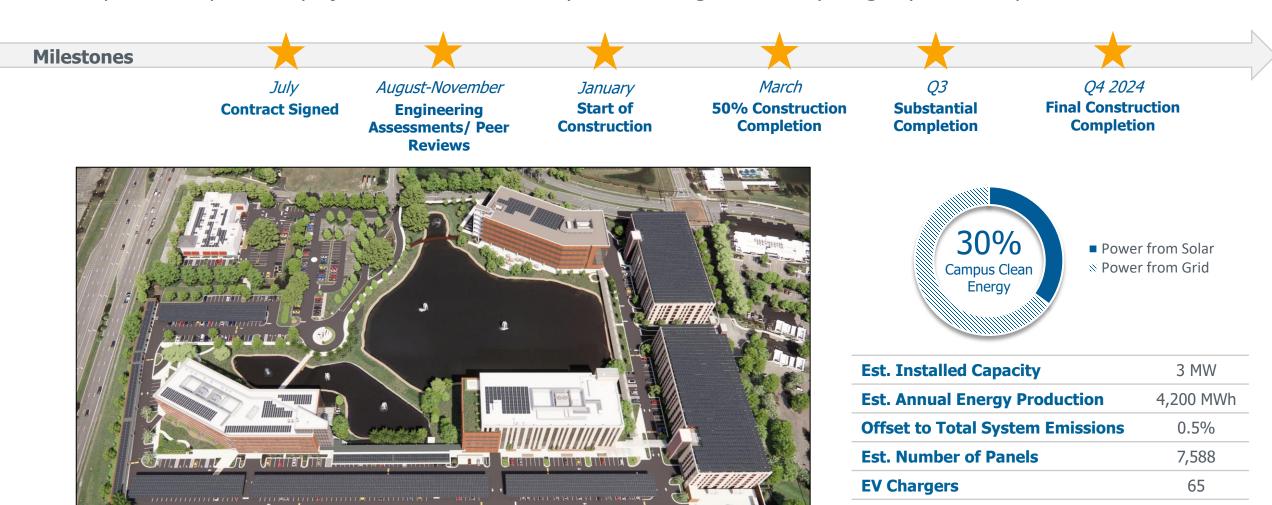


Systemwide Renewable Energy Projects KEY · Off-site (RPPA) Owned On-site **Castle Rock** Utility Program Existing On-site Solar & Wind **Parker** Assessing Existing On-site Solar Project **Daytona & Palm Coast** Community Solar Partnership **NextEra RPPA NEXTera** Orlando ENERGY 🧀 Under construction as of Q2 esa On-site Solar at McRae 2024 Parking Garage **Corporate Campus Brookfield RPPA** esa **Brookfield** On-site Solar Operational; ~120,000 RECs **Carrollwood & Riverview** TECO. AN EMERA COMPANY (Est. Completion Q4 2024) received YTD Evaluating On-site Solar Opportunities

AdventHealth remains on track to achieve 100% renewable electricity by 2026, supported by systemwide on-site and off-site renewable energy projects

On-site Solar: Corporate Campus Update

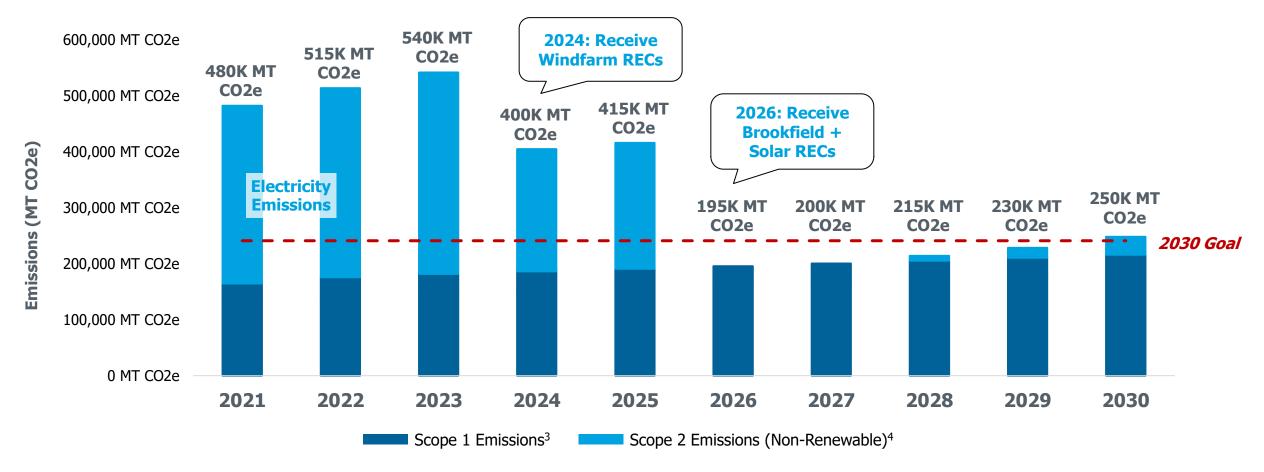
The corporate campus solar project will reduce the facility's estimated grid electricity usage by 30% compared to 2021.





AdventHealth's Scope 1+2 Footprint

Historical and Projected Scope 1+2 Emissions with Renewable Energy Deals^{1,2}



AdventHealth remains on track to achieve 100% renewable energy in 2026

Anesthetic Emissions & Reduction Strategies Overview

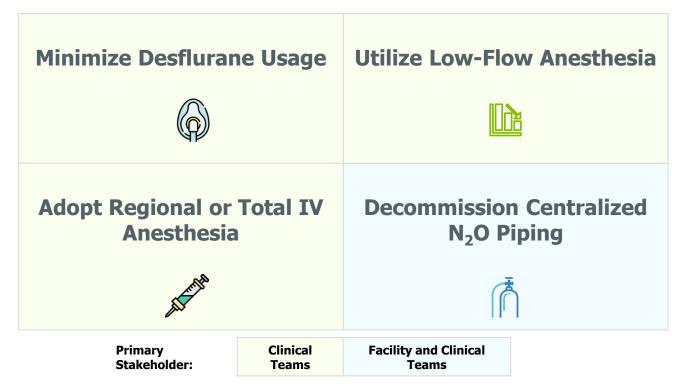
COMMON INHALED ANESTHETIC AGENTS

Four inhaled anesthetics contribute up to 3% of hospital operating emissions, by spend

Gas Type	Impact ¹
Desflurane	2,540x higher global warming potential than CO_2
Isoflurane	510x higher global warming potential than CO_2
Nitrous Oxide	298x higher global warming potential than CO_2
Sevoflurane	130x higher global warming potential than CO_2

LEVERS FOR CHANGE

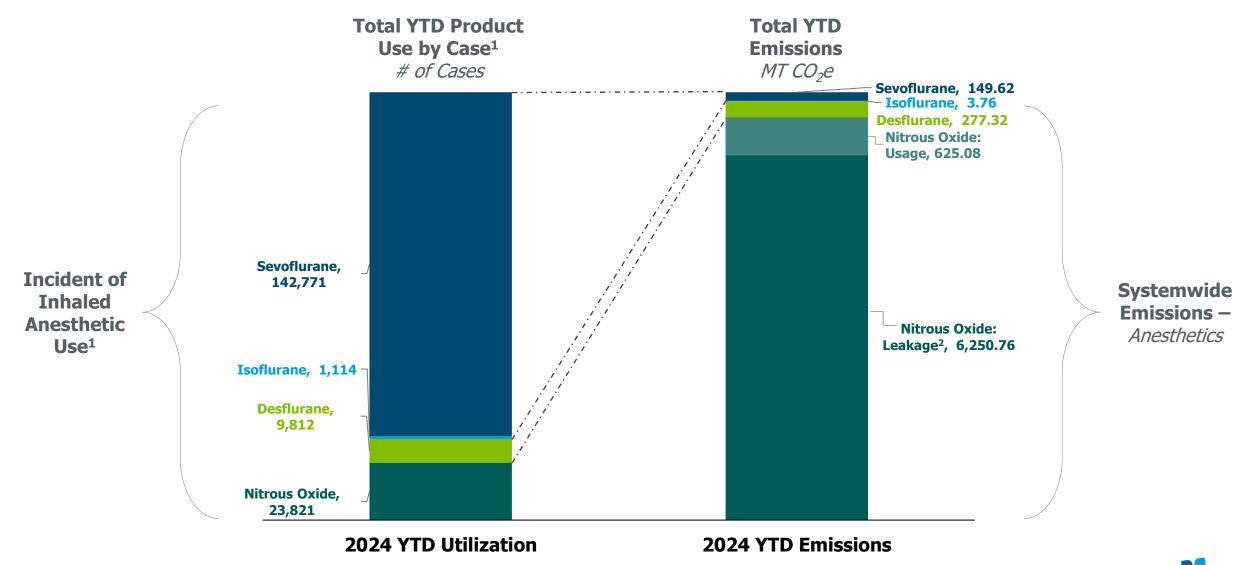
Four proven pathways recommended by the American Society of Anesthesiologists reduce the impact of inhaled anesthetics²



Note: (1) Practice Greenhealth: numbers reflect Global Warming Potential (GWP), a measure of how much energy a given mass of each gas could absorb (when released into the atmosphere) relative to an equivalent mass of carbon dioxide (2) Reflects recommended approach by the American Society of Anesthesiologists; waste anesthetic gas recapture has limited evidence of cost and environmental efficacy, though may be considered after the above interventional measures



Inhaled Anesthetics – Total 2024 YTD Utilization & Emissions



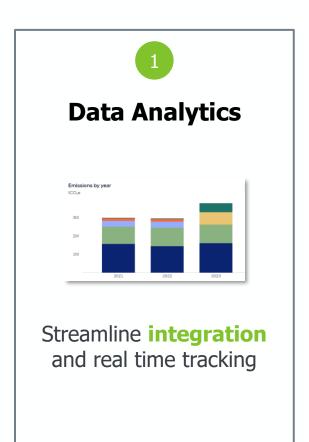
Note: (1) Case count data derived from Epic-captured anesthetic utilization through July 2024. (2) Nitrous oxide emission split conservatively assumes that 90% of emission is due to leakage, based on peer benchmarks

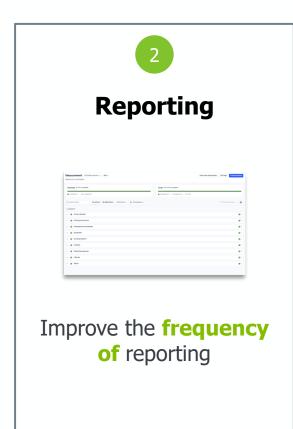


Strategic Partner



2023 2024-2025









Engagement



2024 Notable Recognitions and Engagements









WSJ Sustainability Article

Healthcare Climate Council

Modern Healthcare Sustainability Conference

Climate Week







SMI Spring Conference



CleanMed 2024



FICPA Industry Insights

Partnerships



U.S. EPA Green Power Partnership

Voluntary program supporting increased use of green power to reduce negative environmental impacts



- Report on green power use annually
- Use 7% or more green power¹
- Use Green Power Partner mark when promoting partnership with EPA

Benefits

- + National Recognition
- + Posted description of AdventHealth's green power efforts
- + EPA to assist green power procurement & communications²

Additional Opportunities

5 Award Opportunities

- Excellence in Green Power Use
- Green Power Partner of the Year
- Sustained Excellence in Green Power
- Direct Project Engagement
- Green Power Community of the Year

10 List Opportunities including

- National Top 100
- 100% Green Power Users
- Green Power Partnership Long-Term Contracts



U.S. DOE Better Climate Challenge

Voluntary program to promote emissions reduction and showcase steps to addressing climate change

- Reduce scope 1 & 2 by 50% in 10 years³
- Set and Pursue energy efficiency target (in progress)
- Develop organization-wide plan with GHG reduction milestones
- Participate in 1+ working group
- Make data available through ENERGY STAR Portfolio Manager®
- + National Recognition
- + 950+ Organization in Challenge with Peer-to-peer Events
- + Access to DOE Resources

Potential for chair on **Better Buildings Alliance Healthcare Steering Committee** alongside...















Facility Councils

This system-wide sustainability governance model will take a holistic approach to sustainability.



- Meets our broader sustainability aspirations and goals
- Broadens existing foundation and promote our holistic, integrated approach to social and environmental issues
- Provides facility-level oversight and coordination for successful implementation of initiatives



Facility Environmental Sustainability: 2025 STIP

Theme	Initiative	Corporate Collaboration *	Example Activity
	Renewable Energy	√	Subscribe to a Community Solar Project
	Reflewable Lifelgy	✓	Implement an On-site Renewable Energy Source (e.g., On-site Solar)
	Anesthetic Emissions	✓	Participate in Systemwide Desflurane Reduction Efforts
	Ut Allestrette Effissions	√	Begin process of decommissioning centralized N ₂ O system and replace with canisters
	② Energy Efficiency	✓	Replace Equipment at End-of-Life with More Energy-Efficient Models
Emissions	<u> </u>		Apply Energy-saving Window Films
	Refrigerants		Switch to Low-CFC Refrigerants
	Sustainability Certification & Recognition	\checkmark	Submit for a Sustainability Certification (e.g., LEED, WELL, The Joint Commission)
			Create a Carpool Program for Employees
	Employee Commuting	✓	Install EV Charging Stations
			Enable Mass Transit Alternatives to Personal Vehicles
		✓	Participate in GMI Medical Equipment Donation
			Begin Instrumentation Reprocessing in Collaboration with Existing Stryker Program
Waste			Implement an e-Waste Collection Program
		✓	Replace Styrofoam with more Eco-Friendly Products and Materials
	© Composting		Implement Kitchen Composting through a Local Provider
	Water Use Reduction		Develop Water Management Plan
Water			Begin Graywater Treatment and Water Reclamation
	Sustainable Irrigation		Transition to the Use of Eco-friendly Landscaping Chemicals
	www.		Begin Rainwater and Stormwater Collection
Food		√	Increase the Availability of Plant-Based Offerings
	Sustainable Food		Launch a Food Donation Program in the Local Area
			Establish a Hydroponic Garden to Supplement Food Offerings



Extending the Healing Ministry of Christ