



SIGNATURE HEALTHCARE BROCKTON HOSPITAL

Charting a course for today and the future of healthcare

A generational opportunity

Through the Inflation Reduction Act (IRA), there's a unique opportunity for healthcare facilities to make infrastructure improvements without capital expenditure or unbudgeted costs. With many states offering incentives, hospitals now have an opportunity to monetize a 30% to 50% tax credit on sustainability projects.

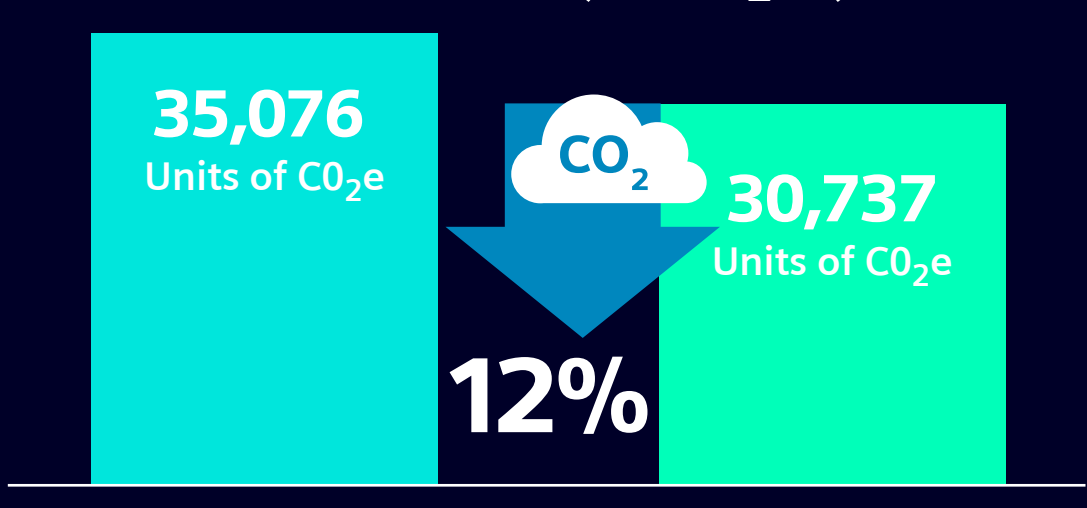
Signature Healthcare Brockton Hospital in Massachusetts offers a blueprint for moving healthcare facilities into the future and leveraging these tax credits for sustainability projects. In 2017, Signature Healthcare worked with Siemens to identify critical upgrades to their main heating and cooling system, including a combined heat and power system. This resulted in a \$9 million infrastructure improvement plan, which was paid for through a combination of guaranteed energy savings and by refinancing its existing bonds at a lower rate through a 10-year debt package totaling approximately \$40 million. Next, installing a Microgrid including 1.9 MW of solar panels and a battery energy storage system (BESS) will help offset peak energy demands. Siemens will also provide microgrid controllers, switchboards and other electrical gear for distributing energy.



A holistic technological and financial solution

These improvements yielded others in operations, from creating a better workflow, greater energy efficiency, and strengthened resiliency – improving the quality of patient care and working environment for physicians and nursing staff. Financially, overall cost savings through energy efficiencies and offsets have made a positive impact to the bottom line. With these operational savings, a larger portion of the budget can now be shifted for cutting-edge healthcare technologies to invest in improving the quality of patient care.

Signature Healthcare Brockton Hospital Emissions (MtCO₂-e)



The energy savings over three years resulted in polluting **EMISSION REDUCTION** of **12%** or **4,339 MtCO₂-e**

917
Emissions from 917 passenger vehicles driven for a year

458
Emissions from 458 homes' energy use for a year

111,262
Emissions sequestered by 111,262 tree seedlings grown for 10 years

10,091
Emissions from 10,091 barrels of oil consumed

Sustainability goals help long-term competitiveness

With an estimated 10% of greenhouse gas emissions coming from the healthcare industry, the sector will need to take a major step forward on its sustainability journey. The Department of Health and Human Services in conjunction with The White House has issued a call to action for this sector to tackle emissions with a goal to **lower Greenhouse Gas Emissions (GHGs) by 50% by 2030 and reach net zero by 2050**. Regulatory pressures could be applied in the future such as an emissions reduction requirement to receive full payment on government insurance programs like Medicare and Medicaid. Similarly, accessing capital from lenders is increasingly being attached to Environmental, Social and Governance (ESG) performance. By prioritizing sustainability, healthcare systems and hospitals can futureproof themselves to both survive and thrive by improving their competitiveness.

Lower GHGs by 50% by 2030

Net Zero by 2050



Learn more about how Siemens is helping its healthcare partners achieve their vision.