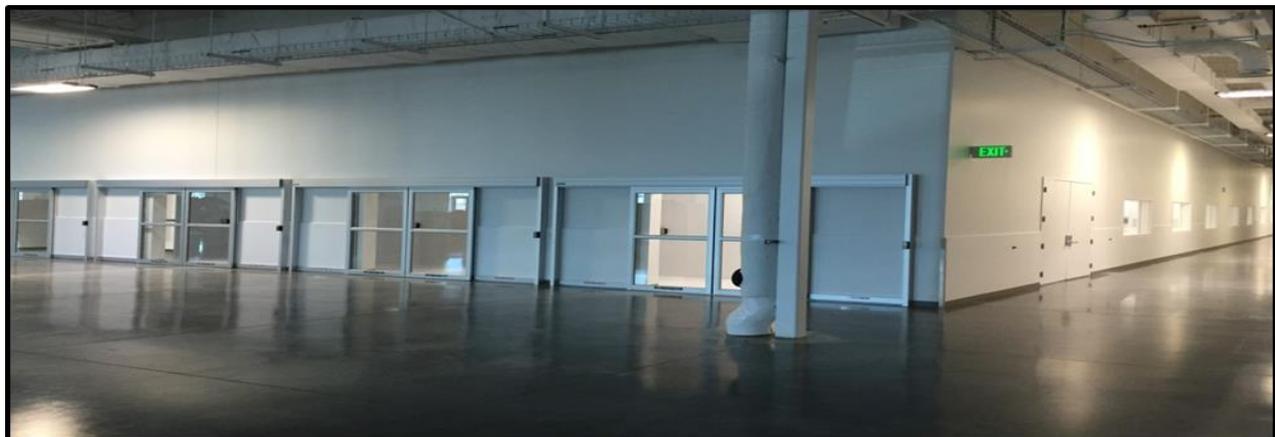


The Business Case for Industrial Energy Efficiency

Project Profile: 2015 Clean Room with LED Lighting

Varian Medical Systems

Facility Description	Project Quick Facts
<p>Varian Medical Systems' mission is to save lives. To meet this challenge, Varian equips the world with new tools for fighting cancer, taking X-ray images, and protecting ports and borders, all from their manufacturing hub in Salt Lake City, Utah. In this 500,000 square foot facility, Varian:</p> <ul style="list-style-type: none"> • Builds over 70 different X-ray tubes • Is a leader in digital imaging • Employs over 700 local Utahns • Completed 46 energy efficient projects over the last 15 years 	<p>Location: Salt Lake City, Utah</p> <p>Market Sector: Healthcare equipment manufacturing</p> <p>Energy Efficiency Project: Clean room with LED lighting</p> <p>Annual Energy Savings (kWh): 138,215</p> <p>Annual Electrical Cost Savings: \$210,000</p> <p>Change in Energy Intensity: -21%</p> <p>Total Project Cost: \$30,573.04</p> <p>Utility Incentives: \$11,057.20</p> <p>Return on Investment (\$/year): \$6,626</p> <p>Payback Period: 1.4 years</p> <p>Project Benefits: Lower energy usage and fewer LED replacements</p>
Project Description	
<p>In 2015, Varian built a new clean room. The new clean room is approximately 30,000 square feet and is comprised of four clean rooms that have environmental management classifications ISO8 to ISO5. Originally, the design team specified florescent lamps for the clean room. As a more efficient alternative, Varian opted to use LED retrofit lamps to replace the florescent lamps.</p>	



Clean Room at Varian Medical Systems

Project Rationale

Varian strives to be a leader in energy efficiency by replacing old systems and processes with newer, more efficient ones. Maintenance on clean rooms requires significant down time, reducing production levels. By retrofitting their clean room with LEDs that required less maintenance, Varian reduced the production down time. As a result, Varian could justify the up-front costs because of the reduced lifetime maintenance costs.



Inside the Clean Room

Operation Details

Varian upgraded to LED lights in a new clean room to save energy costs. The project cost was over \$30,000 and the company covered almost 36% of its costs through utility incentives. With a payback period of 1.4 years and a high return on investment, the company will be able to achieve over 138,000 kWh savings through the upgraded lighting in the new clean room.



Environmental Stewardship

Financial growth and technical innovation are common measures of a company's performance. But for Varian, these goals must be achieved in a socially and environmentally responsible manner. Varian continues to develop better therapeutic capabilities for the clinicians who fight cancer, better diagnostic systems for filmless imaging, and better security systems for cargo screening, while also extending access to advanced care, improving clinical outcomes, optimizing safety, and making a positive impact on its local community. In line with its stewardship goals, Varian's Salt Lake City facility has completed over 40 energy efficiency projects of varying size and complexity, resulting in over 38 million kWh and over \$2 million saved since 2001 through projects like: air compressors, HVAC control set-backs, variable frequency drives (VFDs) on motors, building control upgrades, etc. The Utah Industrial Energy Efficiency Challenge recognized Varian for its tremendous reduction in energy waste in 2012.

For More Information

VARIAN MEDICAL SYSTEMS
www.varian.com
(801) 972-5000

GOVERNOR'S OFFICE OF ENERGY DEVELOPMENT
www.energy.utah.gov
(801) 538-8732

UTAH CLEAN ENERGY
www.utahcleanenergy.org
(801) 363-4046