
Consolidated Sterilizer Systems Contributions toward LEED Credits

Summary

Consolidated Sterilizer System's sustainable sterilizer design and construction helps claim LEED points in up to four separate categories, including water efficiency, material and resources, energy and atmosphere, and innovation in design.



**CONSOLIDATED
STERILIZER SYSTEMS**

GSE International Group Pte Ltd
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Consolidated Sterilizer Systems

Contributions toward LEED Credits

For out of USA and Canada, for further enquiries, contact GSE International Group Pte Ltd
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What is LEED?

Leadership in Energy and Environmental Design (LEED) is an initiative started by the US Green Building Council (USGBC) in an effort to provide a baseline measurement and rating system for “green” buildings. LEED is applicable to new construction and renovation projects and promotes a holistic view to designing sustainable buildings that incorporate the latest technological capabilities. The LEED Green Building Rating System relies on metrics of sustainability, energy efficiency, material/resource use, water efficiency, indoor atmosphere and design innovation.

The rating process covers many areas of the design and construction process including energy and water conservation, land usage, recycling, minimizing raw materials, onsite energy generation, and the usage of windows just to name a few. When a building is being designed, the more standards the engineers and architects are able to meet, the higher the building’s LEED rating can be. LEED has four rating tiers: Certified, Silver, Gold, and Platinum. Achieving even the lowest rating of ‘Certified’ is respected within the industry.

For more information about LEED, visit usgbc.org.

LEED and Laboratory Equipment

The USGBC does not provide ratings for equipment or processes used in a building project, however laboratory equipment can contribute to a building’s LEED rating through a number of areas (listed above). Laboratory equipment that is designed to be environmentally friendly can increase LEED points in these categories. Consolidated has identified nine (9) potential LEED credits (over 4 categories) that could benefit from using a Consolidated steam sterilizer.

Consolidated’s Contributions to LEED - *Contributions to Sustainability*

Consolidated sterilizers generate LEED points through four major areas: Water Efficiency, Materials and Resources, Energy and Atmosphere, and Innovation in Design. Here is how Consolidated can help achieve these points.

SUSTAINABLE STEAM STERILIZERS FOR ENERGY EFFICIENT LAB



Water Efficiency Category

Credit Description	Points	Explanation
Credit 2: Innovative Wastewater Technologies	2	Consolidated sterilizers can be equipped with WaterEco® water conservation systems that will reduce potable water consumption by over 50%.
Credit 3: Water Use Reduction 30%, 40%, 50%	2-4	Consolidated sterilizers can be equipped with premium WaterEco® water conservation systems that can reduce potable water consumption by up to 99%.

Material and Resources Category

Credit Description	Points	Explanation
Credit 1.2: Building Reuse – Maintain Interior Nonstructural Elements	1	Consolidated sterilizers can be customized to fit existing wall cutouts, utility connections, and room layouts. In addition, existing sterilizers can be retrofitted with WaterEco® water conservation systems to reduce water consumption.
Credit 2: Construction Waste Management	1-2	Consolidated sterilizers can be shipped with minimal crating material and any crating material that is used can be recycled.
Credit 3: Materials Reuse 5%, 10%	1-2	Refurbished sterilizers can be supplied for the project.
Credit 4: Recycled Content 10%, 20%	1-2	Consolidated sterilizers contribute 80-90% post-consumer recycled content and 10-20% pre-consumer recycled content. Scrap metal is both utilized on the sterilizer and sent back to the refinery.
Credit 5: Regional Materials 10%, 20%	1-2	Consolidated sterilizers are manufactured in New England. Points could be applied to building projects in the New England area. Additionally, sterilizers can be manufactured from stainless steel and carbon steel sources within North America.

Energy and Atmosphere Category

Credit Description	Points	Explanation
Credit 1:Optimize Energy Performance	1-19	Consolidated sterilizers can be supplied with an EcoCalendar feature that shuts off steam supply when the sterilizer is idle. In addition, this on/off indicator can signal a lower flow-rate requirement to the HVAC system or canopy hood. Sterilizers can be supplied with a superior insulation (higher R Value) to reduce heat loss to the room, thereby requiring a lower HVAC flow-rate in the room.

Innovation in Design Category

Credit Description	Points	Explanation
Credit 1:Innovation in Design	5	Consolidated sterilizers can be supplied with innovative options such as the WaterEco® system and EcoCalendar feature for water and energy savings.

Every manufacturer should publish energy and water usage statistics for their equipment. In the absence of a regulatory body to standardize and rate energy/water usage and general “eco-friendliness” of lab equipment, leading manufacturers such as Consolidated proactively pursue these goals on behalf of architects, lab planners and end users.

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