

LEED *buildings* NATURAL GAS

NATURE'S CHOICE FOR CLEAN ENERGY

Commercial and residential buildings consume approximately two-thirds of the electricity and one-third of all energy in the United States.

What is LEED?

Implemented by the United States Green Building Council (USGBC), the LEED Green Building Rating System evaluates environmental performance of an entire building over the building's life cycle. Natural gas use supports the goals of the LEED system by promoting efficient use of resources. The use of clean, efficient natural gas will significantly increase your opportunity to earn credits in the rating systems and earn certification due to natural gas increasing system efficiency, providing waste heat recovery, and being environmentally friendly due to lower harmful emissions.

Ecology and Environment, Inc.'s Corporate Headquarters in Lancaster, NY is certified LEED Platinum



The Rating System assigns credits to buildings in five main categories: Sustainable Site, Water Efficiency, Energy and Atmosphere, Material and Resources, and Indoor Environmental Quality as well as awarding additional credits for innovation and regional priority.

Natural gas systems that are eligible for LEED certification Rating System Points include: high efficiency boilers, furnaces, and water heaters; high efficiency energy recovery systems; high efficiency food service equipment; and desiccant regeneration systems.

Heating and cooling are the largest energy users in commercial buildings, often times setting higher rates and demand charges. Because of its importance, reducing energy use and increasing efficiency earns a large number of credits.

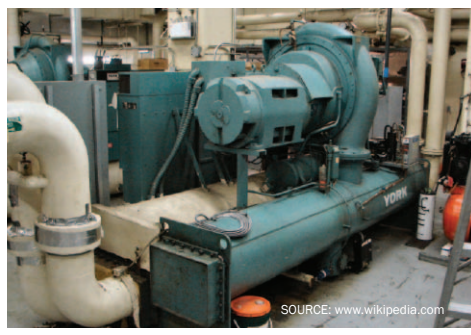
Natural gas earns LEED credits through:

- Highly efficient equipment
- Heat recovery technology that exceeds standard installation efficiencies
- Reduced energy and water use
- Lowers operating cost
- Environmentally friendly fuel



National Fuel
www.nationalfuelgas.com

Technical Review Provided By:
ecology and environment, inc.
Global Environmental Specialists
www.ene.com



Natural gas chillers earn LEED certification credits in both the Energy and Atmosphere category as well as the Innovation in Design category. Through the application of existing and emerging natural gas technology such as natural gas driven and absorption chillers, existing buildings and new construction can benefit through increased efficiency and earn green building certification.

Sustainable Sites	LEED CATEGORY (Possible Points)					
	New Construction (NC)	Core and Shell (CS)	Schools	Commercial Interiors (CI)	Existing Buildings (EBOM)	Homes
Credit 4.3 Alternative Transportation: Low Emitting and Fuel Efficient Vehicles	3	3	2			
Energy and Atmosphere						
Prerequisite 2 Minimum Energy Performance	Required	Required	Required	Required	Required	Required
Prerequisite 3 Fundamental Refrigerant Management	Required	Required	Required	Required	Required	
Credit 1 Optimize Energy Performance	19	21	19	10		34
Credit 1.3 Optimize Energy Performance: HVAC					18	
Credit 1.4 Optimize Energy Performance: Equipment and Appliances				4		
Credit 4 Enhanced Refrigerant Management	2	2	1		1	1
Materials and Resources						
Credit 5 Regional Materials	2	2	2	2		
Indoor Environmental Quality						
Credit 3.1 Construction IAQ Management Plan: During Construction	1		1	1		
Credit 3.2 Construction IAQ Management Plan: Before Occupancy	1		1	1		
Credit 2.1 Combustion Venting, Space Heating and DHW with Closed/Power Exhaust						Required
Credit 2.2 Install High Performance Fireplace						2
Credit 4 Outdoor Air Ventilator						3
Credit 5 Local Exhaust						2
Innovation						
Credit 1.1-1.5	1	1	1	1	1	1

Totals indicated are available points for each category. They can be met with use of efficient natural gas equipment that supports the category. Reference the Specific LEED Reference Guides for Details of Each Credit Requirement