Welch Allyn, a manufacturer of medical diagnostic equipment, expanded their existing headquarters facility with the goals of revamping its main campus’ image, improving the well-being and comfort of its workforce, and incorporating sustainable building practices. The scope of work included a large multi-story atrium, a façade shading system, and skylights integrated with an electric lighting system.

LRC’s DesignWorks created a daylighting design that carefully considered the overcast sky common in upstate New York, heavy snow loads, views of the sky, and the southeast building orientation.

Energy-saving results

DesignWorks brought daylight into the atrium through a series of large, tilted, south-facing skylights. The tilt and orientation of the skylights maximizes passive solar gain in the winter and minimizes it in the summer.

Designers recommended an automatic shade system on the south façade to block low-angle morning sun in order to maintain occupant comfort, mitigate glare, and maximize daylight harvesting potential.

The project also involved the addition of skylights to several office areas. Prismatic skylights with splayed light wells illuminate the interior spaces. Electric lighting in the daylight area was outfitted with energy-saving, daylight-harvesting equipment that can turn off electric lights when daylight provides the lighting needs for occupants.

Sponsor

New York State Energy Research and Development Authority (NYSERDA)

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