

Choate Rosemary Hall

Kohler Environmental Center

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|------------------------|---|------------------|--------------------|
| Location | Wallingford, Connecticut | Size | 31,325 square feet |
| Architect | Robert A.M. Stern Architects | Cost | \$20 million |
| Services | MEP/FP, Sustainable Design, Energy Analysis | Completed | 2012 |
| LEED Awards | <i>LEED Platinum Certified</i> <i>Boston Society of Architects Education Facilities Design Award, 2016</i> | | |



Choate Rosemary Hall embarked on a plan to create an innovative environmental center on over 260 acres of property adjacent to its existing campus. Made possible by a generous gift of Herbert V. Kohler, Jr. (class of 1957) president and chairman of Kohler Company, the new center combines interdisciplinary academics with a residential program focused on environmental science. Designs incorporate 14 dormitories, dining facilities, seminar rooms, laboratories, faculty/staff housing, and a state-of-the-art greenhouse.

Kohler Ronan is delighted to have designed the sophisticated MEP/FP systems for this unique facility. Sustainable elements are integral to the project since one of the goals was to achieve a LEED Platinum certification for the building. Other goals included achieving net-zero energy usage. Nearly 100% of the energy needs are provided by a photovoltaic array and roof mounted thermal solar panels.

To help achieve such ambitious goals, Kohler Ronan conducted several energy simulations using advanced modeling software. We were able to determine the building's best performance based on innumerable variables like orientation, window and door placement, insulation, type of equipment, daylighting, and natural ventilation. Today, students are able to track this performance via specialized dashboard monitoring systems.



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