

Siena College New Residence Hall Electrical and Lighting Design Loudonville, New York



Novus Engineering, P.C. provided electrical design documents for Siena College's 95,000 square foot new residence dormitory and dining hall, which can house and feed 264 students. The building includes a full kitchen, fitness center and meeting rooms in addition to the dormitory bedrooms and student dining hall. Novus prepared detailed electric load calculations using realistic load factors, which resulted in a properly sized electric service and emergency generator, conforming to the college's directives. The building utilizes LED lighting for the hallways and the dining hall, as well as the exterior building façade, walkways and parking areas, resulting in a very low lighting power density. The building also features a public energy dashboard showing dormitory electricity use by floor.



In addition to providing electrical design services, Novus assisted in verifying design performance for the NYSERDA New Construction Program (NCP). The building qualified for a \$72,825 incentive under the NCP due to its high level of energy efficiency. Novus performed commissioning for all energy consuming aspects of the project, including wall and roof insulation, mechanical and control systems, and lighting systems. The commissioning process resulted in substantial improvements to the building envelope and helped identify and resolve numerous issues with the complex HVAC control system.



25 Delaware Avenue
Delmar, NY 12054
P: 518.439.8235
F: 518.439.8592
www.novusengineering.com