

Moses Brown School, Providence, RI

New Construction and Major Renovation Services



Woodman Family Community & Performance Center
Photo by Peter Goldberg

Trade Professional, Architect, Engineer, etc.

Architect: DBWW Architects, Providence, RI
(Based on an original concept by Chicago-based architect Trung Le)

Engineer: Wilkinson Associates Inc., Warwick, RI

Builder: Shawmut Design & Construction, Providence, RI

Project Manager: DEC Consulting, Derry, NH

This project at the Moses Brown School combined new construction of the Woodman Family Community & Performance Center with a major renovation of the Walter Jones Library. The school benefited from National Grid's New Construction Services by receiving over \$46K in incentives, helping to bring a decade-long dream to life. The Woodman Center is practical and sustainable, meeting the growing needs and mission of Moses Brown. This fast track project was completed in 18 months. Since the design team involved National Grid at the pre-design phase of new construction, the project was eligible for whole building incentives and the design team also received a charrette stipend. Jeffrey Ascii, Project Manager, Wilkinson Associates Inc., recommends that owners get in touch with National Grid early on. ***"The earlier you get involved, the better with National Grid,"*** said Ascii. Adding National Grid ***"guides design where it needs to be"*** and ***"helps make recommendations to get the best rebates possible."***

In addition, the renovated Walter Jones Library received new HVAC, lighting and plumbing systems. The new Performance Center was constructed at the center of the campus as recommended by the architect and connected to the Library. The central heating plant was also relocated to the new Center.

Summary of the Energy Conservation Measures (ECMs)

- High-Efficiency Lighting (Electric)
- Daylight Harvesting Controls (Electric)
- High Efficiency DX Rooftop Units and Ductless Cooling Units (Electric)
- Enhanced Controls for HVAC Systems (Electric)
- VFDs for hot water and chilled water loop pumps (Electric)
- Energy Recovery for rooftop units (Natural Gas and Electric)
- Condensing Boilers (Natural Gas)
- Building Envelope Upgrades (Electric and Natural Gas)
- Condensing Domestic Water Heaters (Natural Gas)
- High Efficiency Chiller (Electric)
- Low Fan Power AHU-2 (Electric)

New Construction Service continued



Walter Jones Library Interior



New Central Heating Plant

Project Results:

| | |
|---|--------------|
| Final cost of installed ECMs | \$278,356 |
| National Grid incentive | \$46,528.75 |
| Annual electric savings | 91,265 kWh |
| Annual therms savings | 8,579 therms |
| Annual energy cost savings | \$21,353.18 |
| Simple payback (without incentive) | 13.03 years |
| Simple payback (with incentive) | 10.86 years |

"Any new building is a symphony of compromises. But the Woodman Center went so well that it feels like we didn't have to compromise on anything we wanted, from the virtuosic acoustics right down to the high-efficiency energy systems"

- Adam Olenn, Director of Communications & Community Engagement, Moses Brown School

Process from Start to Finish:



Contact National Grid



Present Conceptual Design



Provide Schematic Design



Deliver Design Development



Submit Construction Documents



Begin Construction



Verify work is completed

For more information on our New Construction Services:

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Email: newconstruction@nationalgrid.com

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