Abstract
This project aimed to find solutions to the problem of unsustainable landscaping and high maintenance costs for the Museum of Russian Icons in Clinton, Massachusetts, a local non-profit cultural institution. Since the founding of the museum, energy conservation has been a primary focus of the museum staff. With a combination of solar panels covering a large area of the roof and a vegetative roof to conserve cooling costs in the summer, this goal has largely been achieved. However, there are issues with the current solutions which our team committed to address. Among these issues are excessive water use for the green space in front of the museum and high maintenance costs of the vegetative roof.

Through a series of sustainable landscaping innovations such as heat-reflective roofing, rainwater harvesting, and low-maintenance, native plants, we hope to simultaneously reduce the environmental impact and annual expenditure of the museum. With our solution, the museum stands to break even in 6 years, saving significantly for every year after that.

Objective
• Replace vegetative roof with more efficient alternative to eliminate maintenance fees.
• Lower overall costs of landscaping to create a more efficient method of maintaining green space.
• Implement a rainwater collection system to lower amount of total water consumption

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Selected Bibliography
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