

Aquatic Center Falling Water Energy Capture

Possible Academic Connections: Civil Engineering

Recommended project length: Semester

Experiential Learning? Likely

Community Engagement? No

Remote learning possible? Partial

Connection to OHIO Sustainability & Climate Action Plan: Energy

Brief description: Develop a method of capturing hydroelectrical energy from falling water in the pool filtration system in the University Aquatic Center and generate a corresponding cost and benefits analysis.

Project description:

Investigate the possibility for a water wheel or low-head hydroelectric dam to capture energy in the pool filtration system of the Ohio University Aquatic Center. Deliverables include a triple bottom line cost benefit analysis, design recommendations, and design specifications.

Resources available to students/faculty to complete project:

- Faculty time

Project alignment to OHIO Sustainability & Climate Action Plan:

- [Energy](#) (goal #2)

Please send final project deliverables to sustainability@ohio.edu for tracking and reporting purposes.