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# Aquatic Center Falling Water Energy Capture

**Possible Academic Connections:** Civil Engineering

**Recommended project length:** Semester

[**Experiential Learning**](https://www.ohio.edu/academic-excellence/experiential-learning/overview)**?** Likely

[**Community Engagement**](https://www.ohio.edu/university-college/campus-community-engagement)**?** No

**Remote learning possible?** Partial

**Connection to** [**OHIO Sustainability & Climate Action Plan**](https://www.ohio.edu/sites/default/files/sites/sustainability/files/2021%20OHIO%20Sustainability%20and%20Climate%20Action%20Plan.pdf)**:** 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:

1. Triple bottom line cost benefit analysis
2. Design recommendations
3. Design specifications

**Resources available to students/faculty to complete project:**

* Faculty time

**Project alignment to OHIO Sustainability & Climate Action Plan:**

* [Energy](https://www.ohio.edu/sustainability/operations/energy) (goal #2)

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