Parallel Migrations
(but in the same Universe-ity)

Emily Ping O’Brien
Digital Repository and Metadata Librarian
Worcester Polytechnic Institute
The WPI Plan

Projects are at the heart of a WPI education...

...students discover the value of learning by doing.

THEORY  ×  PRACTICE  ×  GLOBAL  ×  IMPACT  = WPI
Time to Migrate!

**NEW**
Open Source Repository

**NEW**
Student Projects System
Parallel Migration
Metadata Migration

Library: Digital WPI Repository

IT: eProjects System
Metadata Ingest

Library: Digital WPI Repository

IT: eProjects System
<table>
<thead>
<tr>
<th>Project Type</th>
<th>IQP</th>
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<tbody>
<tr>
<td>Submission date</td>
<td>2019-04-30</td>
</tr>
</tbody>
</table>
| Authors | Jacob Bernier, ME
Gabrielle Brown, BIO
Michael Hartwick, ME |
| URN | E-project-043019-110536 |
| Division | Energy and Resources |
| Sponsor | WPI |
| Title | ENVISIONING SOLAR PANEL CANOPY SYSTEMS AT WPI |
| Advisors | LePage, Suzanne, CE
Rosbach, Derren, UGS |
| Availability | unrestricted |

Abstract

This project assessed the feasibility of WPI’s parking areas for a solar canopy system, and developed a recommendation for the most effective option. Potential locations around campus were analyzed, with total area, sunlight exposure, and local topography taken into account. Regional climate patterns and solar incentives were also considered. Best practices were learned through interviews with solar installation companies and other schools with solar canopies. Ultimately, a comprehensive cost/benefit analysis was completed to estimate installation costs and payback periods.

Files

- Final_Document.pdf
- Payback_Analysis.xlsx
- Solar_Canopy_Catalog.pdf
NOW

eProjects 2.0
ENVISIONING SOLAR PANEL CANOPY SYSTEMS AT WPI

Gabrielle Brown, Worcester Polytechnic Institute
Jacob Bernier, Worcester Polytechnic Institute
Michael Hartwick, Worcester Polytechnic Institute

Faculty Advisor
LePage, Suzanne

Faculty Advisor
Robach, Derren

Sponsor
WPI

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This project assessed the feasibility of WPI’s parking areas for a solar canopy system, and developed a recommendation for the most effective option. Potential locations around campus were analyzed, with total area, sunlight exposure, and local topography taken into account. Regional climate patterns and solar incentives were also considered. Best practices were learned through interviews with solar installation companies and other schools with solar canopies. Ultimately, a comprehensive cost-benefit analysis was completed to estimate installation costs and payback periods.

Publisher
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Date Accepted
April 2019

Project Type
Interactive Qualifying Project
ENVISIONING SOLAR PANEL CANOPY SYSTEMS AT WPI

Downloadable Content

ENVISIONING SOLAR PANEL CANOPY SYSTEMS AT WPI

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Creator
Bennet, Jacob
Brown, Gabrielle
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Subject
Sustaining WPI Project Center

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Keyword
Energy and Resources; Sustaining

Advisor
LePage, Suzanne
Rodrock, Derren

Year
2019

Sponsor
WPI

Date created
2019-04-30

Resource type
Interactive Qualifying Project
Collaboration - Challenges

- Communication
  - Internal
  - Cross-departmental
- Documentation standards
- Evolving team
Collaboration - What Worked

- Cross-promotion
- Weekly Meetings
- Flexibility with project management methodologies
Metadata Prep and Migration

- Migration workflow decisions
- Repository maintenance x 2
- Normalization and clean-up
  - Different depending on repository
    - Migration
  - Each Term
- Addition of themes for faceting
Personal Wins

- Previous SQL knowledge
- Mastering OpenRefine
- Learning Python
- Surprise! DOCUMENTATION!
What’s Next?

- PDF Viewer
- Additional digitized WPI historical and special collections
- Full integration with campus core systems
- Custom analytics
- User-created collections
- Incorporate UNESCO and Sustainable Development Goals
Thank you!

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