Daylighting Analysis: Yost Grube Hall

L. Patterson  
*Portland State University*

C. Hardman  
*Portland State University*

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3 Daylighting “Zones” with 4 Scenarios of Surrounding Block Development

<table>
<thead>
<tr>
<th>Scenario</th>
<th>Description</th>
<th>Date</th>
<th>Time</th>
<th>Sunlight Path</th>
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<td>N.W. Developed</td>
<td></td>
<td>June 20</td>
<td>Morning: zone 1 = .3 hrs</td>
<td></td>
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<tr>
<td>S.W. Developed</td>
<td></td>
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</tbody>
</table>

Daylighting Analysis

Energy Analysis in relation to daylighting

Graph/Representation of results

Daylighting and Energy Use

Conclusions

Surrounding Development

The direct-daylight will be decreased if surrounding buildings on the block are developed.

Quality of Space

The daylighting of residential gathering spaces remains relatively high. When taking a closer look at the individual units, especially “residential hours,” the units still experience direct daylighting. Therefore, the daylighting was not lost in the efforts to reach net-zero standards.

Sefaira as a Tool of Analysis

Sefaira produced inconsistent numbers throughout the process of this research. Whether the glazings were mixed or not to vary the digital model in any manner, the conclusions can be made that the corridor metrics desired for research cannot be found using Sefaira. However, the analysis of general relationships and relative increase or decrease is attainable using the tool.