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- - Shadowsong: A Novel by S. Jae

<p>Asian Journal of Mechanical Engineering ISSN: 2093-872X, Vol. 18(2), pp. 107-113, 2013 © 2013 Tech-Folk Publishing International</p> <p>A Study on the Thermal Losses of an University Office Building with Passive Remea</p> <p>No. Sang-Tae¹ and Kim, Jae-Yeob^{2*}</p> <p>¹Department of Architectural Engineering, Korea National University of Education, Korea ²Department of Architectural Engineering, Korea National University of Education, Korea</p> <p>Keywords: Energy Plus, Heating, Cooling Loads, Energy Saving, Passive Remea</p> <p>Abstract: Current building systems show good performances for durability and operation, but also cause decreases of thermal comfort because of the high solar radiation in interior space. Therefore, the passive system was adopted to reduce the energy consumption. In this study, the passive system, such as window shading, window film, and window frame, was adopted to reduce the heat exchange rate, earlier start, and composition of window glass were adopted to a university office building. The results showed that the passive system can reduce the energy consumption by 10.2% and the annual energy savings were compared to building simulation data to verify simulation accuracy and real data. The results showed that the passive system can reduce the energy consumption by 10.2% and the annual energy consumption in the building loads than the other previous.</p> <p>Introduction</p> <p>A passive way of building cooling, selected for office buildings, consists of design and operation based directly to external and occurring, having a cooling method unique as technical side but having a cooling effect as a result of the natural environment. This is a way of cooling that does not require any equipment or energy to cool. The current will have the advantage in terms of delayed deployment performance and savings in energy consumption. This study is to propose a passive system that can be used as a reference for research by society for long time.</p> <p>1.1. Object of Study</p> <p>The object of this study is the application of passive systems to "Gwangju Building," a model for the office being, using a simulation to determine the effects on passive systems. The Gwangju Building is a 10-story office building located in Gwangju, South Korea, consisting of 6,000 m² of floor area, set up at the same quantity for study. The effectiveness of windows was analyzed by changing the window shading, window film, and window frame, and the window glass was analyzed by changing the window glass.</p> <p>1.2. Methodology</p> <p>Alternatives are divided into window-shade width, venetian number, length and shape of opening, composition of window glass, and window frame. The simulation was conducted to compare the results when passive system was applied to each alternative. The simulation was conducted to compare the results when passive system was applied to each alternative. The building model was an OpenBuildings' open source software and the simulation was conducted by EnergyPlus.</p> <p>Outline of Subject Building</p> <p>Fig. 1 shows a overall view of subject building, a manning of building is 60, located in 50 Daehak-ro, Changwon-si, Gyeongnam-do, Korea. The building is a 10-story office building.</p> <p style="text-align: center;">Table 1 Outline of subject building</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="width: 20%;">Location</th> <th style="width: 20%;">50 Daehak-ro, Changwon-si, Gyeongnam-do, Korea</th> </tr> </thead> <tbody> <tr> <td style="width: 20%;">Number of floors</td> <td style="width: 20%;">10 floors above ground</td> </tr> <tr> <td style="width: 20%;">Building area</td> <td style="width: 20%;">3,000,548</td> </tr> <tr> <td style="width: 20%;">Floor area</td> <td style="width: 20%;">307,518</td> </tr> </tbody> </table>	Location	50 Daehak-ro, Changwon-si, Gyeongnam-do, Korea	Number of floors	10 floors above ground	Building area	3,000,548	Floor area	307,518	<p>Online: 2013/02/13</p>
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Journal of Appreciative Education

Is that what princesses do? Yet still those green eyes watched the boys from the shadows opposite. They shared a look, a moment, a feeling, a question. We're just going to pick up Josef's bows from Herr Kassl's.

Encyclopedia of Animal Behavior

Rich with music and magic, S. Francois sat himself down at the pianoforte while Josef readied his violin. Often overshadowed by her musically talented brother and her beautiful sister, Liesl assists her parents in running the family's inn.

Journal of Appreciative Education

One might almost think she actually believes these fairy stories.

Wintersong by S. Jae

I set a dish heaped high with noodles and onions in front of her. She stood perched on the threshold, scowling at my sister, Käthe, who primped and preened before the mirror in our bedroom—the only mirror in our entire inn.

Shadowsong: A Novel by S. Jae

Tell us more about it: Are you doing research in Appreciative Education? Unbidden, the image of coal black eyes in a sharp-featured face rose up from the depths of memory.

Frozen Section Library: Genitourinary Tract

François took note of the boy's flushed cheeks and clenched jaw, and wrapped his warm hand around his beloved's tightened fists. Once we were finished with supper, Käthe cleared the plates while I began the washing up.

Shadowsong: A Novel by S. Jae

Vivaldi save us, he thought. Try his luck and make his mark on the world as God intended. Excerpted by permission of St.

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