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Watt Hall energy management system implementation initiative

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Abstract: As a place to cultivate future architects, the School of Architecture stands in the leading position to demonstrate how to renovate Watt Hall into a carbon-neutral and low-energy-consumption building through the implementation of the ISO14000 Environmental Management System. As a part of the EMS baseline research project led by Thomas Spiegelhalter, this initial study focuses on the Energy Management System. The main work of this study contains as-built data collection, generating a building information model, establishing energy consumption models, measuring and monitoring the indoor environmental comfort performance, and research on energy consumption profiles, and post-occupancy profiles. This study will not only reveal Watt Hall's current energy performance but also set the baseline and propose feasible energy consumption improvement strategies. The effectiveness of thesis strategies will then be demonstrated through computer modeling, the most effective approaches then used to generate a long-term energy monitoring system and energy management plan.

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Subject: Architecture; Energy

Classification: 0729: Architecture, 0791: Energy

Identifier / keyword: Communication and the arts, Applied sciences, California

Number of pages: 285

Publication year: 2008

Degree date: 2008

School code: 0208

Source: MAI 47/02, Apr 2009

Country of publication: United States

ISBN: 9780549786467

Advisor: Spiegelhater, Thomas

Committee member: Schiler, Marc, Kapeller, Christoph, Mozes, Karen E.

University/institution: University of Southern California

Department: Architecture

University location: United States -- California

Degree: M.B.S.

Source type: Dissertations&Theses

Language: English

Document type: Dissertation/Thesis