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EDITORS

WEB BASED ENERGY INFORMATION AND CONTROL SYSTEMS

CASE STUDIES
AND APPLICATIONS



Web Based Energy Information And Control Systems

**Barney L. Capehart, Timothy
Middelkoop**



Web Based Energy Information And Control Systems:

Handbook of Web Based Energy Information and Control Systems Barney L. Capehart, Timothy Middelkoop, 2020-12-22

This book promotes the benefits of the development and application of energy information and control systems. This wave of information technology IT and web based energy information and control systems web based EIS ECS continues to roll on with increasing speed and intensity. This handbook presents recent technological advancements in the field as well as a compilation of the best information from three previous books in this area. The combined thrust of this information is that the highest level functions of the building and facility automation system are delivered by a web based EIS ECS system that provides energy management facility management overall facility operational management and ties in with the enterprise resource management system for the entire facility or the group of facilities being managed.

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management facility management overall facility operational management and ties in with the enterprise resource management system for the entire facility or the group of facilities being managed

Handbook of Web Based Energy Information and Control Systems Barney L. Capehart, Timothy Middelkoop, 2011

Web-based Energy Information Systems for Energy Management and Demand Response in Commercial Buildings Naoya Motegi, 2003

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Energy Information Systems EIS for buildings are becoming widespread in the U S with more companies offering EIS products every year As a result customers are often overwhelmed by the quickly expanding portfolio of EIS feature and application options which have not been clearly identified for consumers The object of this report is to provide a technical overview of currently available EIS products In particular this report focuses on web based EIS products for large commercial buildings which allow data access and control capabilities over the Internet EIS products combine software data acquisition hardware and communication systems to collect analyze and display building information to aid commercial building energy managers facility managers financial managers and electric utilities in reducing energy use and costs in buildings Data types commonly processed by EIS include energy consumption data building characteristics building system data such as heating ventilation and air conditioning HVAC and lighting data weather data energy price signals and energy demand response event information This project involved an extensive review of research and trade literature to understand the motivation for EIS technology development This study also gathered information on currently commercialized EIS This review is not an exhaustive analysis of all EIS products rather it is a technical framework and review of current products on the market This report summarizes key features available in today s EIS along with a categorization framework to understand the relationship between EIS Energy Management and Control Systems EMCSs and similar technologies Four EIS types are described Basic Energy Information Systems Basic EIS Demand Response Systems DRS Enterprise Energy Management EEM and Web based Energy Management and Control Systems Web EMCS Within the context of these four categories the following characteristics of EIS are discussed Metering and Connectivity Visualization and Analysis Features Demand Response Features and Remote Control Features This report also describes the following technologies and the

potential benefits of incorporating them into future EIS products Benchmarking Load Shape Analysis Fault Detection and Diagnostics and Savings Analysis Web Based Enterprise Energy and Building Automation Systems Barney L. Capehart, Lynne C. Capehart, 2020-12-17 The capability and use of IT and web based energy information and control systems has expanded from single facilities to multiple facilities and organizations with buildings located throughout the world This book answers the question of how to take the mass of available data and extract from it simple and useful information which can determine what actions to take to improve efficiency and productivity of commercial institutional and industrial facilities The book also provides insight into the areas of advanced applications for web based EIS and ECS systems and the integration of IT web based information and control systems with existing BAS systems Web-based Energy Information Systems for Large Commercial Buildings Mary Ann Piette, Naoya Motegi, 2003 Energy Information Systems EIS which monitor and organize building energy consumption and related trend data over the Internet have been evolving over the past decade This technology helps perform key energy management functions such as organizing energy use data identifying energy consumption anomalies managing energy costs and automating demand response strategies During recent years numerous developers and vendors of EIS have been deploying these products in a highly competitive market EIS offer various software applications and services for a variety of purposes Costs for such system vary greatly depending on the system s capabilities and how they are marketed Some products are marketed directly to end users while others are made available as part of electric utility programs EIS can be a useful tool in building commissioning and retro commissioning This paper reviews more than a dozen EIS We have developed an analytical framework to characterize the main features of these products which are developed for a variety of utility programs and end use markets The purpose of this research is to evaluate EIS capabilities and limitations plus examine longer term opportunities for utilizing such technology to improve building energy efficiency and load management Machine Tool Technology, Mechatronics and Information Engineering Zhong Min Wang, Dong Fang Yang, Kun Yang, Liang Yu Guo, Jian Ming Tan, 2014-09-22 Selected peer reviewed papers from the 2014 International Conference on Machine Tool Technology and Mechatronics Engineering ICMTTME 2014 June 22 23 2014 Guilin Guangxi China **Performance Monitoring in Large Commercial Buildings**, 2008 **Hart's E&P**, 2004 *Efficient Electronics Through Measurement and Communication* Alan Meier, Lawrence Berkeley National Laboratory, 2014 **Public Utilities Fortnightly**, 2007 **Choice**, 2009 "Code of Massachusetts regulations, 2011", 2011 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020 **"Code of Massachusetts regulations, 2012"**, 2012 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020 "Code of Massachusetts regulations, 2010", 2010 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020 **The Massachusetts register**, 1992-06-19

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