

Cost Benefits of Solar-powered LED Street Lighting System

Case Study-American University of Sharjah, UAE

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Abstract - This report describes the cost effectiveness of using solar powered LED (Light Emitting Diode) streets. The case study selected is the AUS (American University of Sharjah) campus, which still uses the conventional halogen lamps for its lighting requirements. The unit charge for current is 0.45 fils/KW.hr (fils-UAE currency subdivision) and based on this rate, it costs AUS, AED 373,852 per annum (AED-UAE currency) due to the usage of conventional in their street lighting. In this project, the aim is to reduce the cost of energy in the campus by replacing all of the conventional lamps with LED (Light Emitting Diode) lamps in AUS and then to calculate the economic benefit of using these solar powered LED lights. Solar radiation energy is used to charge the battery during daytime, and offer energy to the LEDs light equipment at night. A dimmable Modula is designed and integrated to the system to dim the LEDs at night from 01:00-06:00am. This system has a double advantage- it reduces cost as well as utilizes the renewable energy (solar) available to us

Key Words: Cost, Light Emitting Diode (LED), Power, Renewable Energy, Solar Energy

1. INTRODUCTION

This document is template. Currently, energy crisis is one of the most discussed as well as researched topic in the world. Human depends a lot on the fossil fuels for their energy requirements. But, fossil fuels are limited in amount, expensive and polluting the environment. Now, one of the ways to reduce the dependency on the fossil fuels is to utilize renewable energy resources. Such resources are firstly free of cost and also available in abundance. In UAE, solar energy is the amplest, direct and clean form of renewable energy available. Total solar energy absorbed by the Earth is about 3,850,000 extra joules (EJ) in one year, which is even twice as much as all the non-renewable resources on the earth found and used by the human being, including coal, oil, natural gas, and uranium [1]. Taking this idea into consideration, we are designing a solar-powered LED street lights for AUS campus. This technique utilizes energy-saving technology to reduce energy consumption, electricity bill and hence improve utilization of solar energy available to us.

2. MOTIVATION

The American University of Sharjah currently uses high-

pressure sodium lamps for the street lighting purpose. The HPS lamps have several defects. It radiates a large amount of heat and requires 250W for each lamp, thereby increasing the cost of the energy. The AUS campus has a total of 705 posts and every post has 3 or 4 lamps. The power required by a post is 750 to 1000 watts continuously working for 12 hours a day. This would consume a lot of energy at high prices.



Figure 1: conventional Street Lamps in AUS

The current technology which is being used in AUS is:

- Lamps: OSRAM, Vialox, 250 Watts, High-pressure Sodium Lamps (HPS) [2].
- Ignitor: ZONDGERAT, Mzn 400 Sx.
- Ballast: BAG Electronics, HM/HIUAB, 250 Watts for High-pressure lamps.

Case Study On Solar Street Lights

Lingsheng Yao



Case Study On Solar Street Lights:

Outdoor Lighting for Pedestrians Frank Markowitz, 2021-12-30 *Outdoor Lighting for Pedestrians* shows how outdoor lighting is important for pedestrians safety personal security and comfort with major impacts on street path and park aesthetics and neighborhood sense of place Providing clear basic technical background accessible to non engineers the book focuses especially on planning and policy concerns It covers the fundamentals of lighting technology benefits costs and possible adverse impacts of lighting enhancements traditional and innovative approaches planning and policy documents and practices aesthetics and placemaking and technology trends in lighting design This book is aimed primarily at practicing transportation planners and engineers generalist urban planners safety advocates and researchers and university students However lighting designers and other professionals will also find it useful It considers how lighting can be coordinated with other potential improvements to enhance the pedestrian environment for better walkability

Renewable Energy Optimization, Planning and Control Anita Khosla, Mohan Kolhe, 2023-03-07 This book gathers selected high quality research papers presented at International Conference on Renewable Technologies in Engineering ICRTE 2022 organized by Manav Rachna International Institute of Research Studies Faridabad Haryana India during October 7 8 2022 The book includes conference papers on the theme Computational Techniques for Renewable Energy Optimization which aims to bring together leading academic scientists researchers and research scholars to exchange and share their experiences and research results on all aspects of renewable energy integration planning control and optimization It also provides a premier interdisciplinary platform for researchers practitioners and educators to present and discuss the most recent innovations trends and concerns as well as practical challenges encountered and solutions adopted in the fields of renewable energy and resources

Digitalization and Women's Rights Muharrem Kılıç, Sezer Bozkuş Kahyaoğlu, 2025-11-25 This comprehensive book study comprises two volumes and the topics covered in this second volume are a continuation of those presented in the first volume The main reason for this is that numerous issues related to the situation of women in business and society await solutions and they have become too numerous to be addressed in a single book Our aim in this study is to explore how technological developments impact women and to contribute to the literature by elucidating the fundamental requirements for entrepreneurship leadership sustainability and gender equality in the digital society The most important feature of the study that distinguishes it from other works is that it presents the experiences of different countries in all aspects employing an interdisciplinary approach by authors with diverse field experience Our women and girls constitute the segment of society that needs the most support and we all have responsibilities in this regard As editors and authors we are pleased and honored to address these issues and raise awareness through collaborative efforts Those who read this work and contribute to disseminating the information it contains to society will also act with a sense of responsibility supporting the security of our future We want to thank all our stakeholders in advance for their prompt action on this matter We hope that

the book will serve as a helpful step toward further action

Inventive Computation Technologies S. Smys,Robert Bestak,Álvaro Rocha,2019-11-02 With the intriguing development of technologies in several industries along with the advent of ubiquitous computational resources there are now ample opportunities to develop innovative computational technologies in order to solve a wide range of issues concerning uncertainty imprecision and vagueness in various real life problems The challenge of blending modern computational techniques with traditional computing methods has inspired researchers and academics alike to focus on developing innovative computational techniques In the near future computational techniques may provide vital solutions by effectively using evolving technologies such as computer vision natural language processing deep learning machine learning scientific computing and computational vision A vast number of intelligent computational algorithms are emerging along with increasing computational power which has significantly expanded the potential for developing intelligent applications These proceedings of the International Conference on Inventive Computation Technologies ICICT 2019 cover innovative computing applications in the areas of data mining big data processing information management and security

Applications of Artificial Intelligence and Machine Learning Ankur Choudhary,Arun Prakash Agrawal,Rajasvaran Logeswaran,Bhuvan Unhelkar,2021-07-27 The book presents a collection of peer reviewed articles from the International Conference on Advances and Applications of Artificial Intelligence and Machine Learning ICAAAIML 2020 The book covers research in artificial intelligence machine learning and deep learning applications in healthcare agriculture business and security This volume contains research papers from academicians researchers as well as students There are also papers on core concepts of computer networks intelligent system design and deployment real time systems wireless sensor networks sensors and sensor nodes software engineering and image processing This book will be a valuable resource for students academics and practitioners in the industry working on AI applications

Kurukshetra January 2022 (English) Publications Division, A monthly published in Hindi and English The journal is devoted to all aspects of rural reconstruction and village democracy The journal carries educative and informative articles on rural development and is useful for scholars academicians and students preparing for civil services and other competitive examinations

Emerging Economic Models for Sustainable Businesses Jayati Talapatra,Nayan Mitra,René Schmidpeter,2022-01-21 The book discusses new and emerging economic models that respond to Pulling and Pushing forces Today we are poised at an interesting juncture with favourable conditions making it easier to be a sustainable organization acting as a Pulling Force and the climate crisis rise in social economic equities thereby Pushing for urgent action The book analyses economic models that look at value propositions creation and capture with People Planet and Profit deeply embedded in each stage of the value chain The contributions bring out the interplay between new standards evaluation frameworks technology innovation and other emerging tools to show how they create a sustainable business For this they lean on learnings from successful sustainable businesses Business leaders will find that this book provides deep insights on

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The Solution Revolution William D. Eggers, Paul Macmillan, 2013-08-27 Government Alone Can't Solve Society's Biggest Problems World hunger Climate change Crumbling infrastructure It's clear that in today's era of fiscal constraints and political gridlock we can no longer turn to government alone to tackle these and other towering social problems What's required is a new more collaborative and productive economic system The Solution Revolution brings hope revealing just such a burgeoning new economy where players from across the spectrum of business government philanthropy and social enterprise converge to solve big problems and create public value By erasing public private sector boundaries the solution economy is unlocking trillions of dollars in social benefit and commercial value Where tough societal problems persist new problem solvers are crowdfunding ridesharing app developing or impact investing to design innovative new solutions for seemingly intractable problems Providing low cost health care fighting poverty creating renewable energy and preventing obesity are just a few of the tough challenges that also represent tremendous opportunities for those at the vanguard of this movement They create markets for social good and trade solutions instead of dollars to fill the gap between what government can provide and what citizens need So what drives the solution economy Who are these new players and how are their roles changing How can we grow the movement And how can we participate Deloitte's William D Eggers and Paul Macmillan answer these questions and more and they introduce us to the people and organizations driving the revolution from edgy social enterprises growing at a clip of 15 percent a year to megafoundations to Fortune 500 companies delivering social good on the path to profit Recyclebank RelayRides and LivingGoods are just a few of the innovative organizations you'll read about in this book Government cannot handle alone the huge challenges facing our global society and it shouldn't We need a different economic paradigm that can flexibly draw on resources combine efforts and create value while improving the lives of citizens The Solution Revolution shows the way Energy Conserving Site Design Case Study, 1980 *Proceedings of the Regional Strategic Planning and Awareness Raising Workshop Pacific Energy and Gender Network*, 2006 **The Greening of Economic Policy Reform: Case studies** Jeremy J. Warford, Mohan Munasinghe, Wilfrido Cruz, World Bank, 1997 This report in two volumes addresses environmental impacts stemming from economy wide policy reforms and seeks to clarify the nature of the economic physical institutional and cultural aspects of their relationship Volume 1 summarizes the case studies and synthesizes their key principles Volume 2 explores the case studies in full length They reflect a wide range of country situations and environmental problems Pollution issues are addressed such as air quality and

energy use in Poland and Sri Lanka while a variety of natural resource related issues are covered in the other studies deforestation and land degradation in Costa Rica migration and deforestation in the Philippines agricultural land degradation due to overgrazing in Tunisia fertility losses due to extension of cultivation areas in Ghana water resource depletion in Morocco and wildlife management in Zimbabwe The case studies also use a variety of analytical methods to illustrate the different approaches to identifying the environmental implications of economy wide reforms These methods range from tracing the links between economic incentives and resource use through direct observation to relying on more complex economic modeling of policies and their environmental effects In all the studies however the analytical approach uniformly requires identifying key environmental concerns and relating them to the agenda of priority sectoral and macroeconomic reforms

Solar Maximum Year Zdeněk Švestka, D. M. Rust, Murray Dryer, 1983 **Energy and Economic Growth, is Sustainable Growth Possible?** ,1997 *Annual Report* India. Ministry of Non-Conventional Energy Sources, 2003

Projects Review ,1984 Energy and Holistic Development Ann Heidenreich, Varun Vidyarthi, 1989 Highway Research Abstracts ,1993 Light's Labour's Lost Paul Waide, International Energy Agency, 2006 2011 Updated Reprint Updated Annually US Mortgage System Handbook Vol 2 How to Obtain Mortgages in the US *Atrium Building Study* ,1988 **Journal of Rural Development** ,1998

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