

Studies on Energy Consumption of Melting Furnaces and Energy Conservation Options in Foundries

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ABSTRACT

Energy deficiency has been a source of concern to all nations and particularly countries like India, which has yet to reach the state of self-sufficiency in the various energy sources. To overcome the problems of energy deficiency, increasing cost and growing demand, a whole hearted effort should be made to conserve and optimize the energy available and utilize the resources to full extent. Conceiving the fact that metallurgical industries and foundries are highly energy intensive, this paper discusses some of the options to obtain maximum of energy performance of foundry units based on a comprehensive literature survey and valuable inputs obtained from the experts and workers amongst the organized foundry units that authors have visited and interacted. Based on the energy conservation studies, it was observed that a reduction from an existing 680 kWh to an optimum specific energy consumption of 500 kWh per tonne of liquid metal amounts to a potential saving of rupees 2 lakhs per year on energy cost for a unit producing 350 tonnes of light steel castings per year (at an average yield of 58%). Guidelines in regard of energy conservation in foundries are also presented.

KEYWORDS: Arc Furnaces, Induction Furnaces, Energy consumption and Energy Conservation

1. INTRODUCTION

At the time of independence the installed capacity of power in India was 1362 MW constituting only thermal & hydro and now grew to above 1 lakh MW. Projected demand by 2012 is 2.5 lakhs MW. Corresponding to a marginal increment in electricity production to a total of 693.4 crore unit, state power consumption is increased to 5 million units per day during the last one year [1]. This growing demand and rising cost of electricity coupled with interrupted power supply have spurred a great deal of interest in conservation in many quarters. The main reason that its achievement is fraught with difficulties is the non availability of information on (i) norms for energy consumption (ii) break up of energy balance, which can enable probing into the conservation possibilities in a scientific manner.

Energy audit is an efficient tool in defining and pursuing a comprehensive energy management programme. Careful audit will provide the organization a plan with which it can effectively manage the plant energy system at minimum energy cost. Understanding and implementing the energy conservation principles and guidelines would be useful for industries in combating escalating energy costs and thus to reap several other benefits like improved production, better quality, higher profits, lower emissions etc. In the beginning of nineties, India witnessed a number of studies on

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uncontrolled industrialization in the 21st century Pinakin Patel T2M Global This book examines the role of the modular approach for the back end of the energy industry energy usage management It outlines the use of modular approaches for the processes used to improve energy conservation and efficiency which are preludes to the prudent use of energy Since energy consumption is conventionally broken down into four sectors residential transportation industrial and commercial the discussions on energy usage management are also broken down into these four sectors in the book The book examines the use of modular systems for five application areas that cover the sectors described above buildings vehicles computers and electrical electronic products district heating and wastewater treatment and desalination This book also discusses the use of a modular approach for energy storage and transportation Finally it describes how the modular approach facilitates bottom up top down and hybrid simulation and modeling of the energy systems from various scientific and socioeconomic perspectives Aimed at industry professionals and researchers involved in the energy industry this book illustrates in detail with the help of concrete industrial examples how a modular approach can facilitate management of energy usage

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Table of Contents Energy Conservation And Utilization In Foundries

1. Understanding the eBook Energy Conservation And Utilization In Foundries
 - The Rise of Digital Reading Energy Conservation And Utilization In Foundries
 - Advantages of eBooks Over Traditional Books
2. Identifying Energy Conservation And Utilization In Foundries
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Energy Conservation And Utilization In Foundries
 - User-Friendly Interface
4. Exploring eBook Recommendations from Energy Conservation And Utilization In Foundries
 - Personalized Recommendations
 - Energy Conservation And Utilization In Foundries User Reviews and Ratings
 - Energy Conservation And Utilization In Foundries and Bestseller Lists
5. Accessing Energy Conservation And Utilization In Foundries Free and Paid eBooks
 - Energy Conservation And Utilization In Foundries Public Domain eBooks
 - Energy Conservation And Utilization In Foundries eBook Subscription Services

- Energy Conservation And Utilization In Foundries Budget-Friendly Options
- 6. Navigating Energy Conservation And Utilization In Foundries eBook Formats
 - ePub, PDF, MOBI, and More
 - Energy Conservation And Utilization In Foundries Compatibility with Devices
 - Energy Conservation And Utilization In Foundries Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Energy Conservation And Utilization In Foundries
 - Highlighting and Note-Taking Energy Conservation And Utilization In Foundries
 - Interactive Elements Energy Conservation And Utilization In Foundries
- 8. Staying Engaged with Energy Conservation And Utilization In Foundries
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Energy Conservation And Utilization In Foundries
- 9. Balancing eBooks and Physical Books Energy Conservation And Utilization In Foundries
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Energy Conservation And Utilization In Foundries
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Energy Conservation And Utilization In Foundries
 - Setting Reading Goals Energy Conservation And Utilization In Foundries
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Energy Conservation And Utilization In Foundries
 - Fact-Checking eBook Content of Energy Conservation And Utilization In Foundries
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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