

## **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

# Energy Conservation And Utilization In Foundries



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web electronic immobiliser fault xsara picasso citroen xsara picasso 2 0hdi 2001god electronic immobiliser fault stranice 1  
electronic immobilizer fault i jednostavno kao

**electronic immobiliser fault 2004 citroen xsara picasso 2 0 hdi** - Oct 18 2023

web nov 20 2015 electronic immobiliser fault 2004 citroen xsara picasso 2 0 hdi problem added nov 20 2015 7 years ago car  
citroen xsara picasso year 2004