



Study of Compressed Air and advanced methods to increase efficiency and emission reduction on Malaysian Industries

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Abstract :

These days energy concerns are one of the most important criterions of Energy policy studies. Compressed Air is one of the most clean and efficient energies that has been used for a long time in industries. This study will focus on Compressed air energy. Study will also discuss about some Compressor accelerators that have been used for running the compressors. The most common Compressor accelerators are internal combustion engines. Study will concentrate to introduce some practical ways that can be used by industries to reduce emission and also increase efficiency of Compressed air systems. It will compare emission reduction by using advanced methods also. Study will compare the beneficial advantages of using these advices in industries rather than insisting on usual method. Also study will calculate the amount of payback period for these new technologies and advices. At last advantages and disadvantages of lethargic methods will be compared to electric methods for further analysis. Electricity export taxation reduction will be compared via traditional and advanced methods.

Introduction

Industrialization and modernization has spread rapidly among certain Asian countries such as Malaysia. Consequently, the energy-intensive lifestyles of those living in the so-called developed countries is now being adopted more rapidly too. This implies increased energy use and increased emissions from automobiles, factories and power plants, leading to local air and river pollution as well as global warming and climate changing. All industrial energy analysis was conducted to identify the local energy pattern for every industrial sector and improvement that can be undertaken on energy consumption by the industry in Malaysia. Air compressors have been used more than 9 percent of whole industrial electricity consumption on 2006 in Malaysia [1]. By some studies, it estimates that compressed air accounts for over 80 TWh of electricity and 55 million tons of CO₂ Per year for the EU [2]. Most companies have introduced energy saving measures in their systems. They always have been auditing under experts, but until now we haven't had a specific audit in Malaysia. *Compressed air* is an expensive energy in all industries all over the world. It is also so useful and clean. The