1. Introduction

To improve the efficiency and productivity of energy conversion in the commercial sector, it is essential to optimize the operation of energy conversion processes. The goal is to achieve higher energy efficiency and reduce energy consumption. This can be achieved through the implementation of energy conservation practices and the use of advanced energy management systems. The commercial sector plays a crucial role in this regard, as it consumes a significant portion of energy in the economy. Therefore, it is imperative to focus on energy conservation and efficiency in this sector. The commercial sector consumes a significant amount of energy, and any improvements in energy efficiency can have a substantial impact on the overall energy consumption and the environment. The implementation of energy conservation practices in the commercial sector can lead to a reduction in energy consumption, which can lead to cost savings and improved sustainability.