

For this assignment, you are required to look into thermal energy technologies. Imagine you are an engineering consultant and trying to gain a contract with a company that is searching for a thermal energy management system.

You are asked to write for the company to show how Phase Change Materials (PCMs) could be successfully used for thermal energy management in a number of applications.

Keep in mind that **the most important part of this assignment is your assessment** of several PCM technologies and their applications for thermal energy management.

Write a paragraph (5-6 lines) for each of the following question:

1. What are PCMs?
2. What are the advantages and disadvantages of PCMs?
3. What are successful applications of PCM technologies for energy management and why?

Discuss the following (5-6 lines) for each question

1. Methods of thermal storage and the production and encapsulation of phase-change materials (PCMs) used for thermal storage
2. PCMs for buildings and saving energy
3. PCM in buildings in different climates

Explain concisely why you have selected certain technologies, methods, aspects, etc.

Citation style: APA