

Documentation work – Transformers

Source : Leonardo Energy (2009) - Energy-efficient-distribution-transformers.

Questions:

1. What is the definition of efficiency in a transformer? What are some typical efficiency values for transformers?
2. What are the different types of losses in a transformer? What are the possible solutions to each loss?
3. Why do transformers result inefficient over long period of times? What benefit would we have increasing their performances?
4. What are the different types of transformers? In your opinion, why is hydrogen gas (hydrogen gas has much higher thermal conductivity than other cooling systems) not used for cooling transformers?
5. What are the key advantages of investing in high-efficiency distribution transformers? Explain the Endesa project.