TF CO2 Emissions in the Construction of Transformers

Utility perspective

IEEE/PES Transformers Committee
XXX Tutorial - Spring 20XX
Name
Utility perspective

- Sustainability considerations and decarbonization objectives
- Need for tools to measure, calculate the carbon footprint of large power transformers
- Impact on tenders: rate $/t of carbon
- Identifying best candidates for refurbishment activities
What is a green transformer?

- Energy efficient
- Less material intensive
- Long operational life
- Less losses
- Design choices
- Recycling of raw materials
Utility objectives

- Prioritize solutions that maximize the reduction of GHG emissions of power transformer fleet.
- Develop carbon footprint calculation tools to be used to evaluate purchasing and rehabilitation decisions of power transformers.
- Develop environmental performance indicators (rehabilitation, recycling and the volume of circular economy).
- Establish guidelines for reusing secondary materials: Copper, Rolled Steel and Structural Steel.