On-Site Dismantling of Large Transformers

BACKGROUND

Large modern transformers have welded lids instead of screwed. This feature puts requirements on future dismantling processes for end-of-life transformers. At a dismantling facility the welded lids are not an obstacle. However, if the dismantling is to be performed on-site, or if one wants to get inside the transformers, this will be difficult because of the welded lids. The main purpose of this master’s thesis is to find and suggest a solution to this problem by studying alternative methods, such as mobile openers. The study will involve experiments at Stena Recycling’s dismantling facility in Karlstad and possibly on-site experiments.

TASKS

- Study suitable options, such as mobile openers, for the opening of welded transformer lids as an important feature of a future dismantling process
- Literature study and practical work
- Perform experiments at Stena Recycling’s dismantling facility in Karlstad and possibly on-site

GOAL

- Come up with an effective, secure and environmentally sound method for the opening of welded transformer lids to be used at the dismantling facility as well as on-site

WORK EXTENT & CONDUCTION

- 30 credits, 20 weeks
- Two students if possible (also one is ok)
- Preferably the student/students should be positioned at the facility in Karlstad during the thesis

CONTACT & INFORMATION

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