

# CARBON AND ENERGY SAVINGS UTILISING ULTRA LOW LOSS TRANSFORMERS CPD SEMINAR



Distribution transformers are an essential infrastructure component across all electricity networks in the UK. They were manufactured for tens of decades with little consideration for the energy losses they cause. The effects of climate change have driven the shift towards energy efficiency in electrical equipment. Altering the design of transformers was essential to address the unnecessary high losses they cause. These innovations allow organisations to avoid significant amounts of carbon by improving the efficiency of the units.

Similarly, end users are nowadays more conscious about buying from environmentally and socially responsible businesses. This inspired all organisations to consciously look at their assets, assess their conditions and address improvements to go in line with their sustainability strategies and the government's Net Zero by 2050 commitment.

This certified CPD outlines the implications of EU regulations for transformer losses and the savings associated with upgrading new transformers or replacing old assets with Ultra Low Loss Amorphous Metal Core transformers (AMT's). An explanation of the AMT technology will be provided along with several scenarios to showcase the financial, energy and carbon benefits achieved by disrupting the status quo in the UK and the existing inefficiencies.

**This seminar is CPD Certified**



## BOOK TODAY

This CPD seminar is now hosted online and free of charge.

Book now by emailing Ayah Alfawaris on [ayah@wilsonpowersolutions.co.uk](mailto:ayah@wilsonpowersolutions.co.uk) or calling on 07394565501

# TOPICS COVERED IN THIS FREE ONLINE CPD SEMINAR



## REGULATIONS



Distribution transformers have to abide by the EU Eco Design specifications for transformer losses. Tier 1 and Tier 2 loss levels will be outlined against the Ultra Low Loss that is paving the way for Tier 3.

## FINANCIAL GAIN



Financial feasibility is an essential aspect in the sustainability of businesses. We will provide payback analysis of different scenarios to show the savings that could be achieved through Ultra Low Loss transformers.

## TECHNOLOGY



Amorphous metal core transformers have been installed across the UK in thousands of locations over the past decade. AMT's received IEMA Sustainability Impact Award for the carbon savings they achieve. The technical properties of AMT's will be explained along with the advantages of using these transformers compared to their conventional counterparts.

## CARBON REDUCTION



Greenhouse Gas emissions are a universal measure for the environmental performance of an entity. Reducing energy wastage through reducing transformer losses is a simple way of minimising the carbon footprint. Comparisons against common carbon reduction measures are made to show the magnitude of transformer savings.

## ENERGY LOSSES



Distribution transformer losses occur even when there is no load on the system. Load and no-Load losses will be explained across the lifetime of a transformer to show the significant potential for improving the energy efficiency.

## CASE STUDIES



Selected case studies of some of the Ultra Low Loss transformers installed in the UK will be shared to showcase customers' experiences and reasoning behind upgrading to amorphous transformers and the benefits associated with that.

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