

What's happening?

Best Practice on TLP KO2

FLUX SHIELDS

Overview:

AWS Inductors are purchased as standard with a flux shunt cover (also known as a flux shield). This is a steel made cover, used only until the completion of commissioning to ensure magnets do not stick together during transit. Afterwards, the flux shields no longer serve any functional purpose, and are either recycled or scrapped.

Each flux shield weighs 18 kg and disposal of this much steel results in significant material waste. Therefore, in August 2015 a recycling scheme was agreed between Siemens Rail Automation, Vortok (AWS suppliers) and Network Rail.



Sixty (60) magnets were ordered with an agreement for Vortok to collect and re-use the flux shields. This initiative has saved 1,080 kg of steel. Using the general steel embodied carbon factor of 1.37 kg CO₂ per kg of steel, the initiative amounts to a saving of 1,480 kg of CO₂ (embodied carbon)

Meeting Objectives and Targets

This initiative aligns with a number of sustainability commitments detailed in the TLP KO2 Sustainable Development Policy and specifically those related to:

- Marketplace: deliver sustainable design and construction solutions that represent value for money within the available budget;
- Environment: Maximise resource efficiency in planning, design and construction and adopt the waste hierarchy to minimise waste during design and construction; and
- Environment: minimise the carbon emissions associated with the design and construction of the Works.