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Nulife Glass Cathode Ray Tube (CRT) Recycling furnace to be built in UK for SWEEEP Kuusakoski

Nulife Glass, the UK company founded and led by inventor Simon Greer, whose unique furnace technology that recycles CRT glass, has agreed terms to build the first CRT glass furnace for delivery to Kent England.

UK National recycling business of the year 2011, SWEEEP Kuusakoski are adding this unique recycling technology to their existing electronic waste management facilities, thus closing the loop on their many processes.

The furnace has taken over a decade to perfect and is the only commercially available of its type in the world. It is special because the glass to be recycled from the old CRT televisions and computer screens contains large amounts of hazardous lead oxide. In just one average sized television there will be more than 2lb of lead oxide that is turned into valuable metallic lead leaving glass which can then be safely used in new products.

SWEEEP Kuusakoski are the first in the world to use the technology that is justified by the demise of the CRT manufacturing industry that in the past have reused the leaded glass and by the increasing price of lead. They will be collaborating with Nulife Glass and their partner company, Kuusakoski Oy of Finland in refining features and tailoring the furnace to their exact needs.

SWEEEP Kuusakoski have been working with Nulife Glass, Sheffield University and Aalto University, Finland, for almost two years to perfect the process; as a consequence new crushing and separation equipment has been developed by SWEEEP Kuusakoski, to be ready in time for the new furnace technology.

The Nulife furnace will melt TV glass and through a unique but simple combination of heat and chemistry the hazardous lead content of the glass separates leaving a clean

glass and metallic lead. The de-lead glass has already been successfully used in construction products, counter tops and other applications. The stringent UK Environment Agency has already granted end of waste status to a high volume added value product created from the de- leaded CRT glass.

Nulife Glass were first invited to present their findings and developments at E-Scrap in Phoenix, Arizona, 2008 and then update their progress at E-Scrap Florida 2010. At both events Simon made many contacts, a number of whom are now at varying stages of acquiring permits for their own furnaces in many parts of the world. Nulife Glass are not exhibiting at Florida this year because of the forthcoming workload but Simon will be attending the conference to meet with his prospective and emerging customers.

Editor's notes:

For further details of the technology, company and process please visit www.nulifeglass.com

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