What is in it for you?

At the end of the project the Trumaster-ALRTM will be helping enterprises comply with Directive 2012/19/EU on waste electrical and electronic equipment with regard to recycling of Liquid Crystal Display (LCD) visual displays.

Trumaster-ALR™ will be preventing the emission of hazardous substances, such as mercury and liquid crystals, from entering the environment and will be enabling the recycling of other substances such as indium and phosphorous powder.

You can participate in the project by completing the different surveys launched by the consortium and receiving first-hand information on project progress, findings and recommendations.

See the surveys at:

www.revolvproject.eu

EEE producers
WEEE Compliance Schemes
Policy makers
NGOs
EEE industry
WEEE Recyclers
Auditors
Standards
Media
Academia

ReVolv
Automated Recycling Technologies

Register to participate and receive e-mail updates:

www.revolvproject.eu

Contact us at: info@revolvproject.eu

Project coordinator:

Lisa O'Donoghue (Votechnik)
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Co-funded by the Eco-innovation Initiative of the European Union

ReVolv
Automated Recycling Technologies

Recycling by Votechnik of LCD Visual displays

European Union

Eco-Innovation Initiative

www.revolvproject.eu

What is the background of ReVolv project?

It is estimated that global sales of Liquid Crystal Display (LCD) panels have reached 217 million units by the end of 2013. Given that many LCDs have a short lifespan a large amount of LCDs are made redundant each year and require proper disposal (around 70,000 tonnes in 2013). The WEEE and ROHS Directives, which all EU member states are required to implement, stipulate that components containing mercury and liquid crystals must be removed from LCDs.

The recycling of Liquid Crystal Display (LCD) panels is posing a particular problem for WEEE recyclers in the EU. The majority of recyclers use a manual disassembly process to remove the mercury lighting tubes and LCD panel, which is a slow and labour intensive process. The difficulty of LCD disassembly combined with high costs has led to a situation of stockpiling of LCDs at recycling facilities across Europe.

What is ReVolv offering?

The WEEE recycling industry is in urgent need of an efficient and low cost LCD recycling process to help them comply with the WEEE Directive. The Votechnik Trumaster-ALR^{TM} fills the gap in this market; it is a fully automated, high through-put technology designed to meet the WEEE Directive recycling rates. The Trumaster-ALR^{TM} can process 60-80 LCDs per hour and separate the liquid crystal glass panel and the mercury from the LCD display.

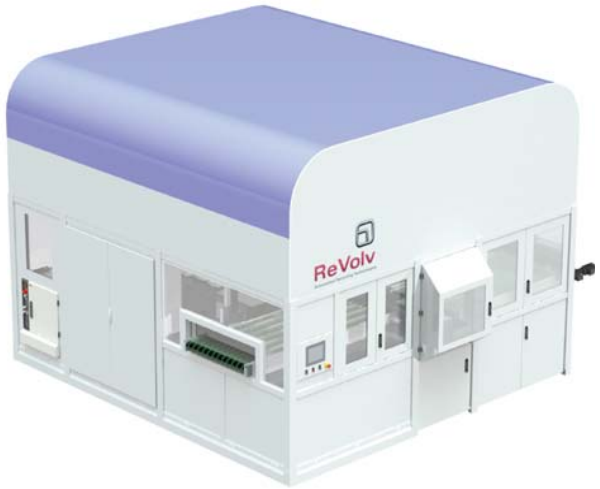
Major ReVolv outputs and results

- Regulatory approval for the technology, WEEELABEX conformity verification and CE marking;
- Demonstration of the technology to a number of independent recyclers throughout Europe;
- A full scale commercial replication of the Trumaster-ALR^{TM} LCD recycling technology.

Throughout the project Votechnik will engage with all project partners and its Advisory Board to correctly position the technology in the marketplace leading to full scale commercialisation.

Demonstration events will take place along the project to show the performance of the Trumaster-ALR^{TM} to stakeholders. Check our activities at:

www.revolvproject.eu



Project partners

Votechnik
Automated Recycling Technologies

DanWEEE
RECYCLING

University of Limerick
Ollscoil Luimnigh

weeeforum

Allied Automation
EXCELLENCE THROUGH INNOVATION