

# Tube nnel

ycling of special glass,  
involved in both areas.  
of picture tubes will  
w in importance.

underlines this is the  
old cathode ray tube  
e ahead, even if flat  
g ground in PCs and  
2005, according to  
e American market  
Stanford Resources  
f CRT units produced  
ontinue to increase  
the latest figure of  
million – an increase

d, it was the general  
hose attending the  
e current practice of  
vision glass as special  
tinue to be the solu-  
as mining infill or as a  
for roads has not  
y promising outlet.

Germany alone,  
ately 1.8 million  
of electrical and  
t appliances are  
every year. A  
t proportion of this  
accounted for by  
sets and monitors,  
component of which  
icture tube. "For this  
all manufacturers of  
glass jointly carry  
onsibility for the re-  
gh-quality end-of-life  
their production of  
ass", explains Franz  
whose responsibilities  
German Federal  
mental Agency include  
affecting the glass  
And in fact more  
r fifths of a television  
ists of two sorts of



*Complete end-of-life picture tubes are delivered to specialized recycling companies.*



*The processing of mixed glass from picture tubes involves separation, cleaning and optical sorting.*



*Schott uses cullet from used picture tubes as a raw material for new funnels.*

glass: the tube neck and funnel are made of lead glass, which accounts for around 25% of the weight and glass containing barium and strontium is



*The prepared funnel glass is stored in...*

used for the panel, which accounts for up to 60% of the total weight of a picture tube.

### Composition of funnel glass standardized

An obstacle to the recycling of material is the fact that the different television set suppliers all use their own glass recipe for the two types, while very tight specifications have to be adhered to for new glass. An important step towards a closed circuit was taken when the European picture tube glass producers Philips, Samsung, Thomson, NEC and Schott reached agreement on the composition for funnel glass aimed at facilitating as high a recycling quota as possible. Schott was the first to implement this composition and has developed its own process for reusing the glass in cooperation with picture tube glass processors.

In 1999 the Mainz... began using a mi... funnel glass and tw... in the melt for nev... material in the requ... words free of met... and ceramic, is cu... two processors, GRI... and RtG Recycling... "We use this materi... at a constant rate... melt", explains D... Manager Batch Su... approximately two t... is panel glass, th... cannot be increased