



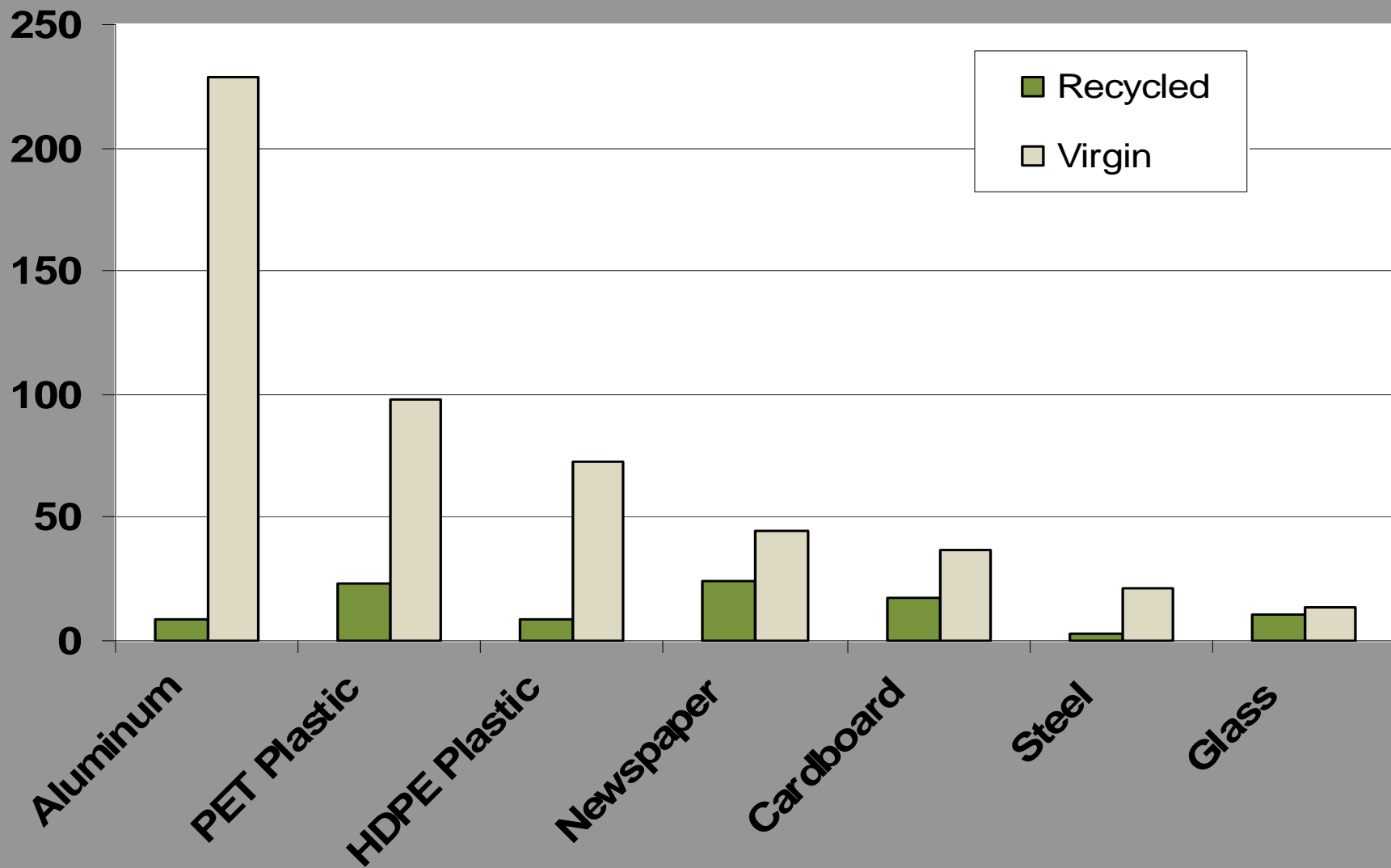
APPENDIX

Measuring the Environmental Impacts of Discards Management: Models, Methods, & Results

Dr. Jeffrey Morris
Sound Resource Management
Olympia, Washington, USA
Tel. 360-867-1033
Jeff.Morris@zerowaste.com

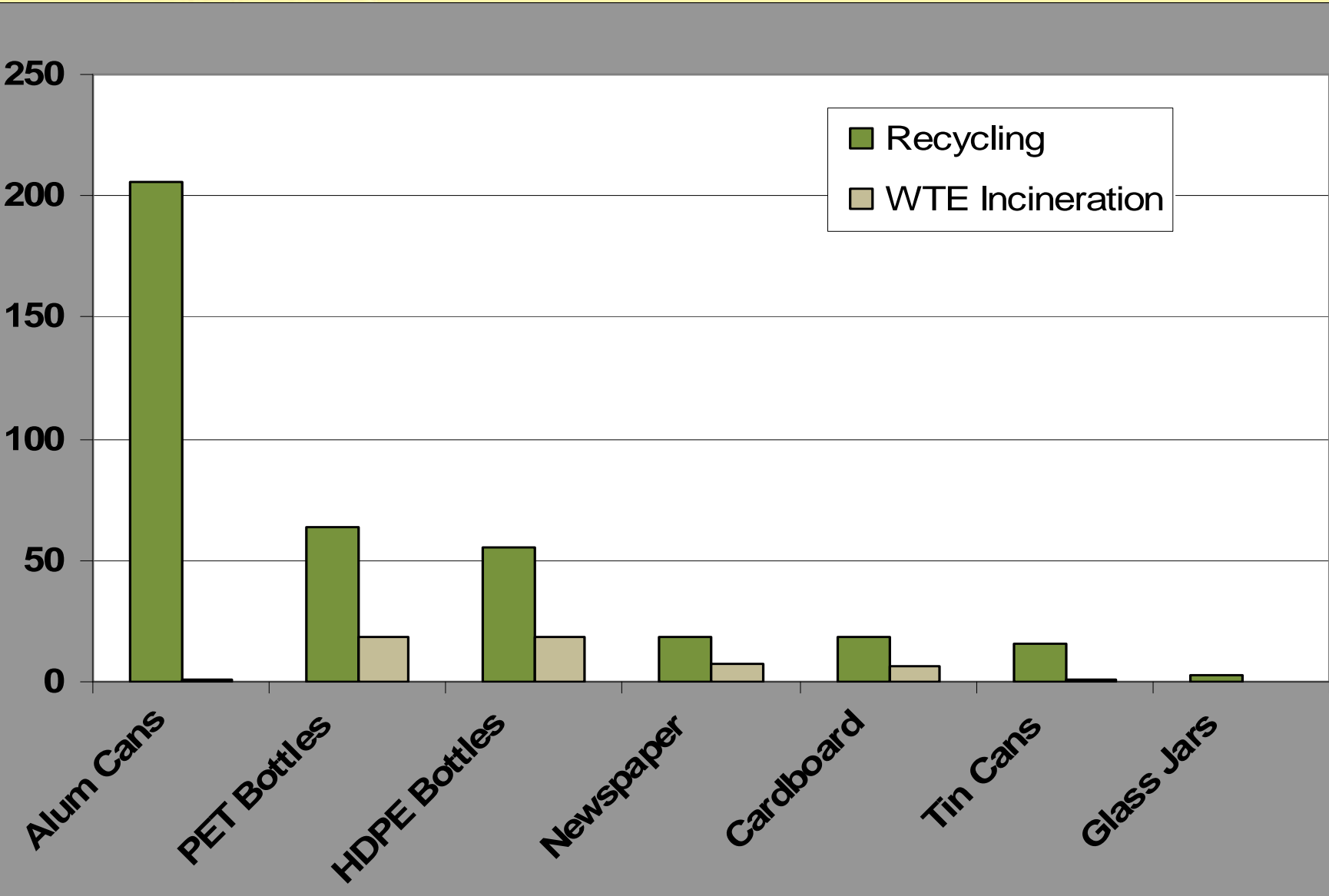


Energy Use: Recycled & Virgin Content Products (million Btus/ton)



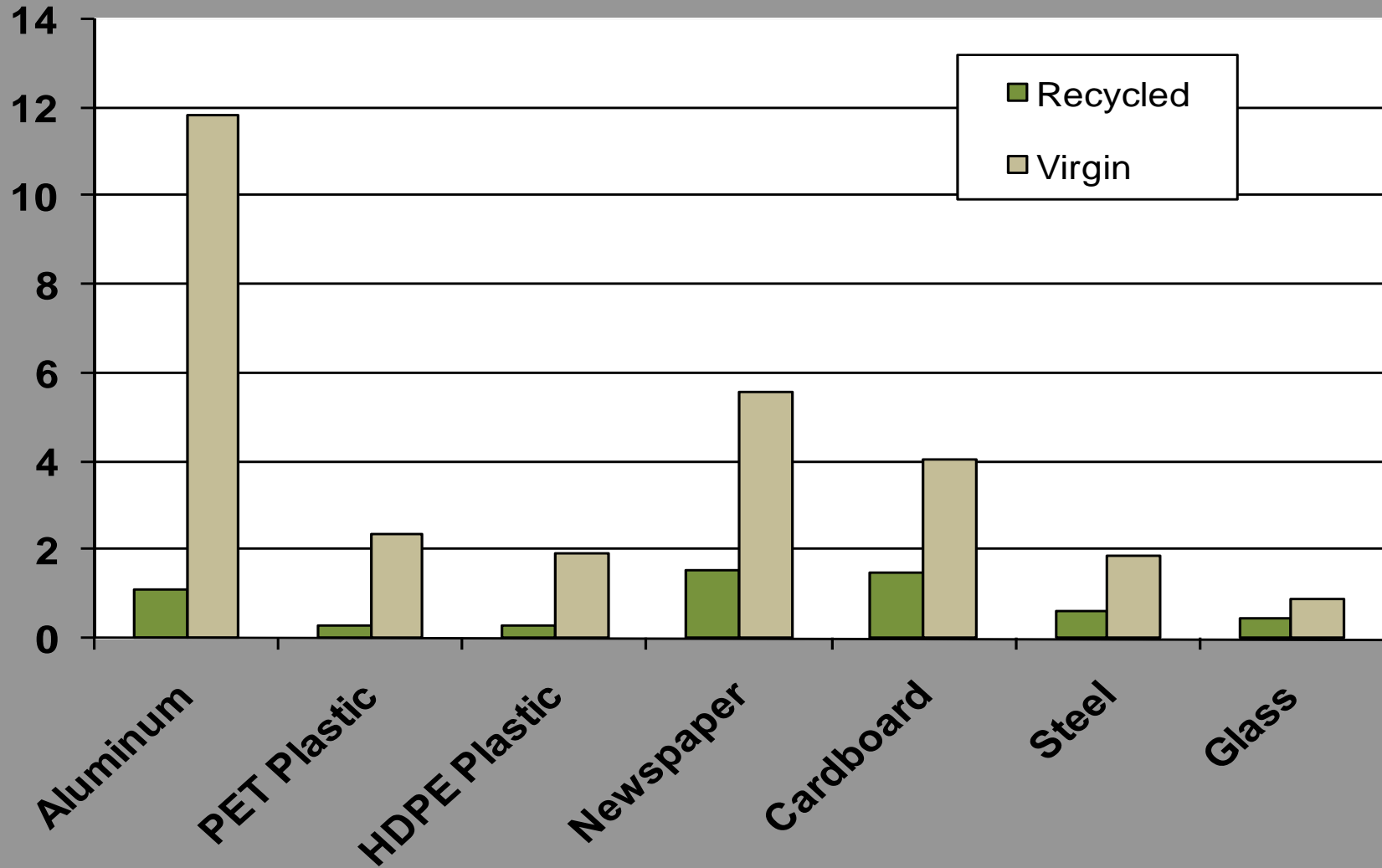


Energy Savings: Recycling vs. WTE Incineration (million Btus/ton)

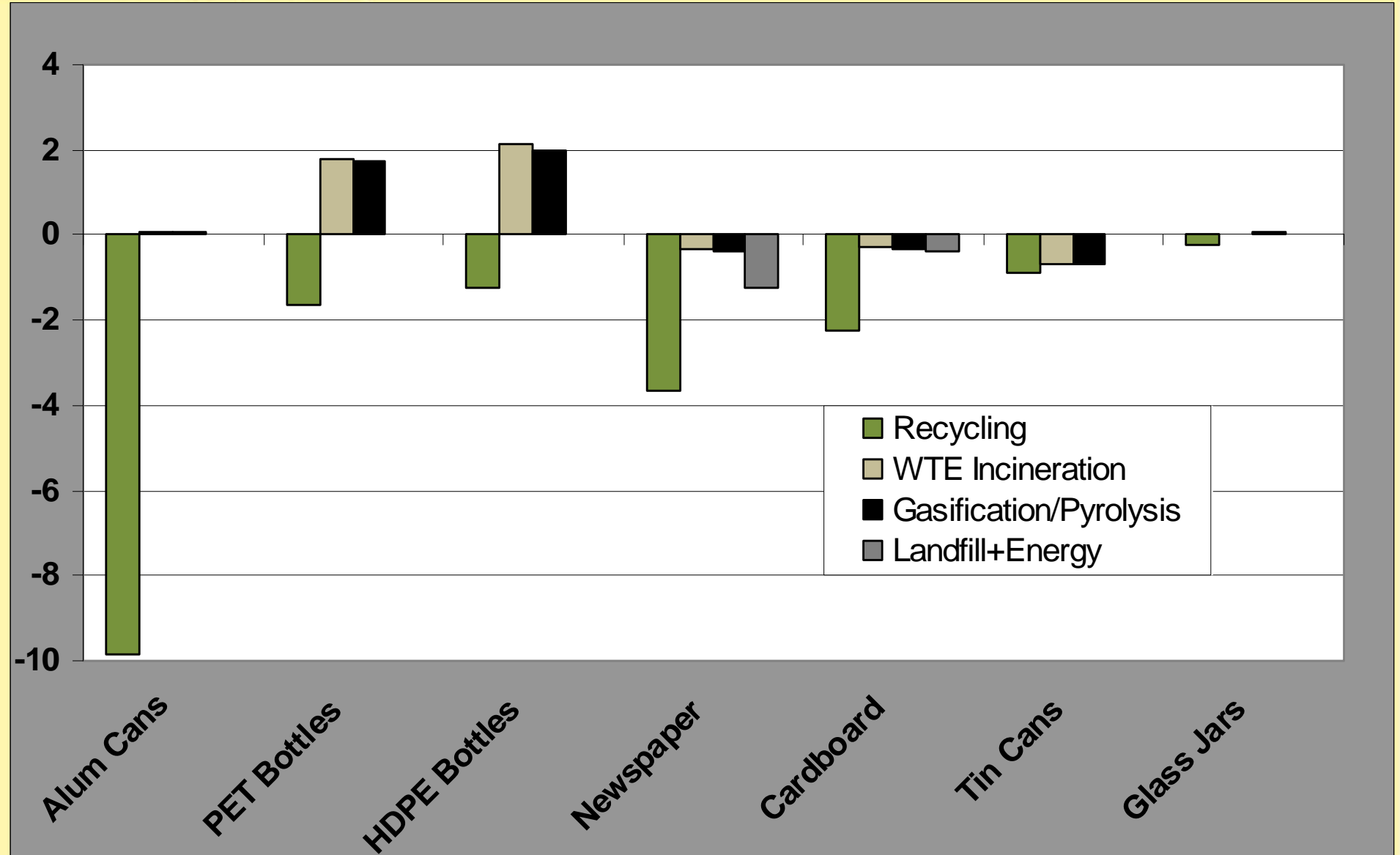




CO2 Emissions: Recycled & Virgin Content Products (tons eCO2/ton)

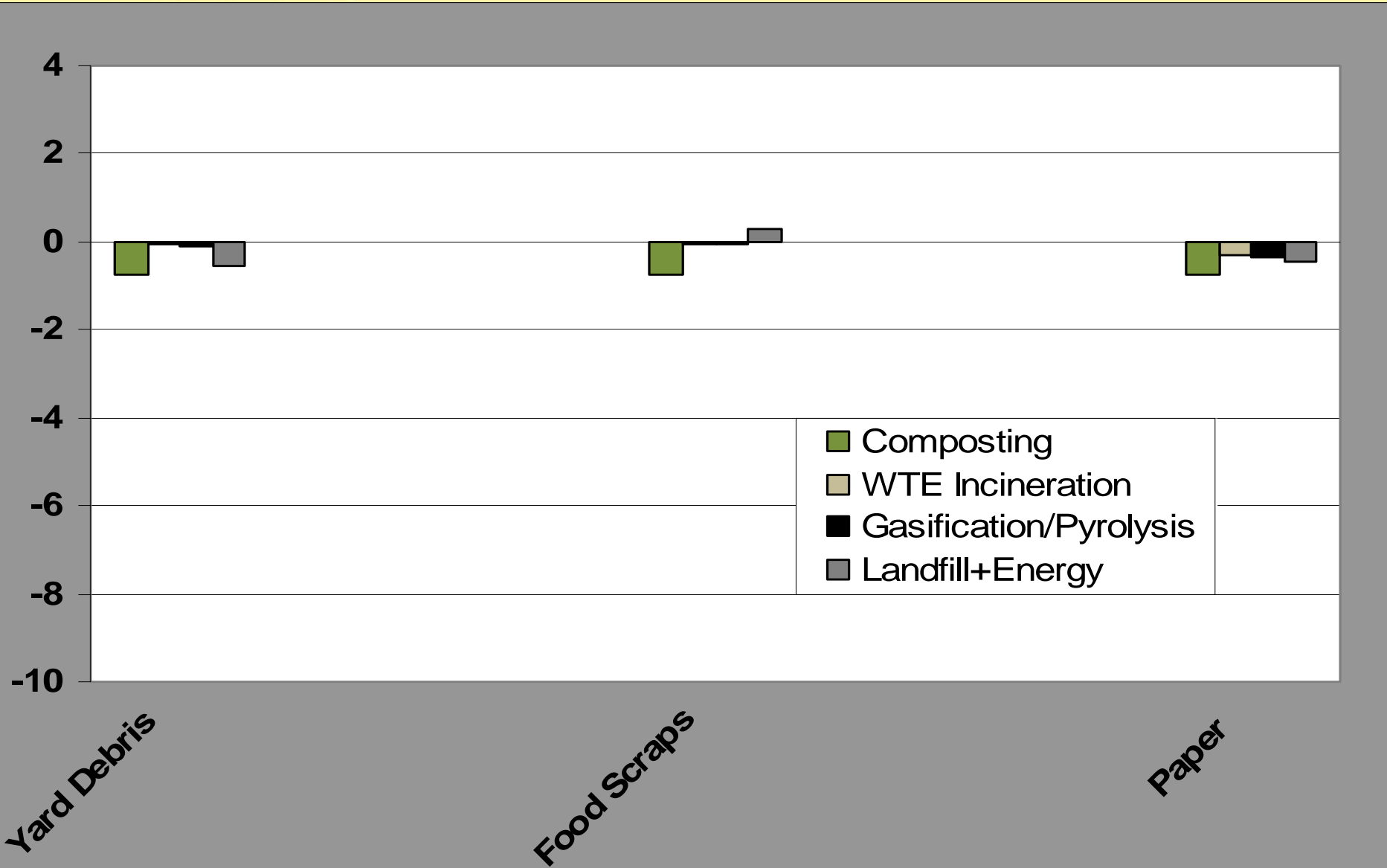


CO2 Emissions: Recycling vs. Disposal (tons eCO2/ton)

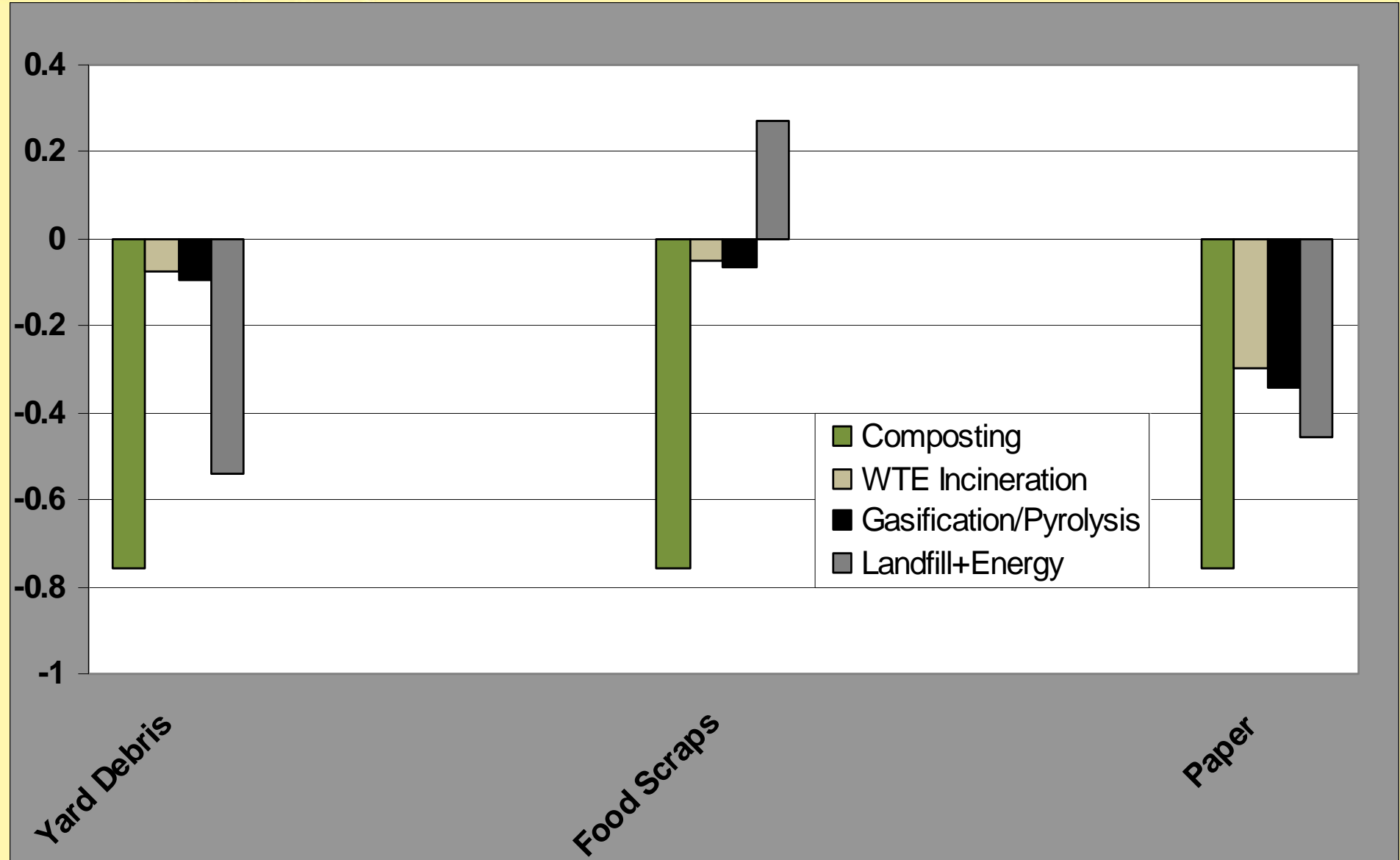




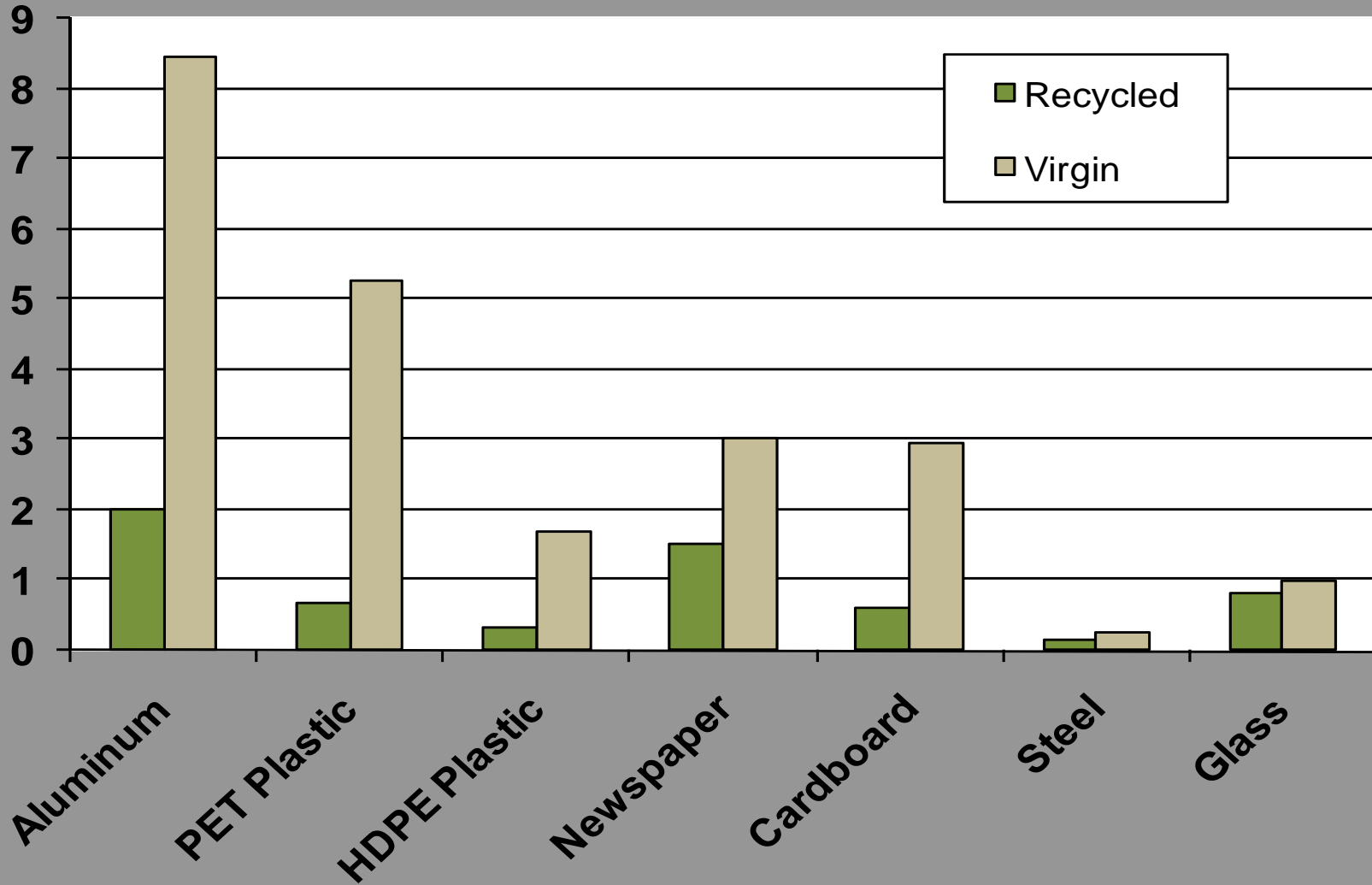
CO2 Emissions: Composting vs. Disposal (tons eCO2/ton)



CO2 Emissions: Composting vs. Disposal - expanded view (tons eCO2/ton)

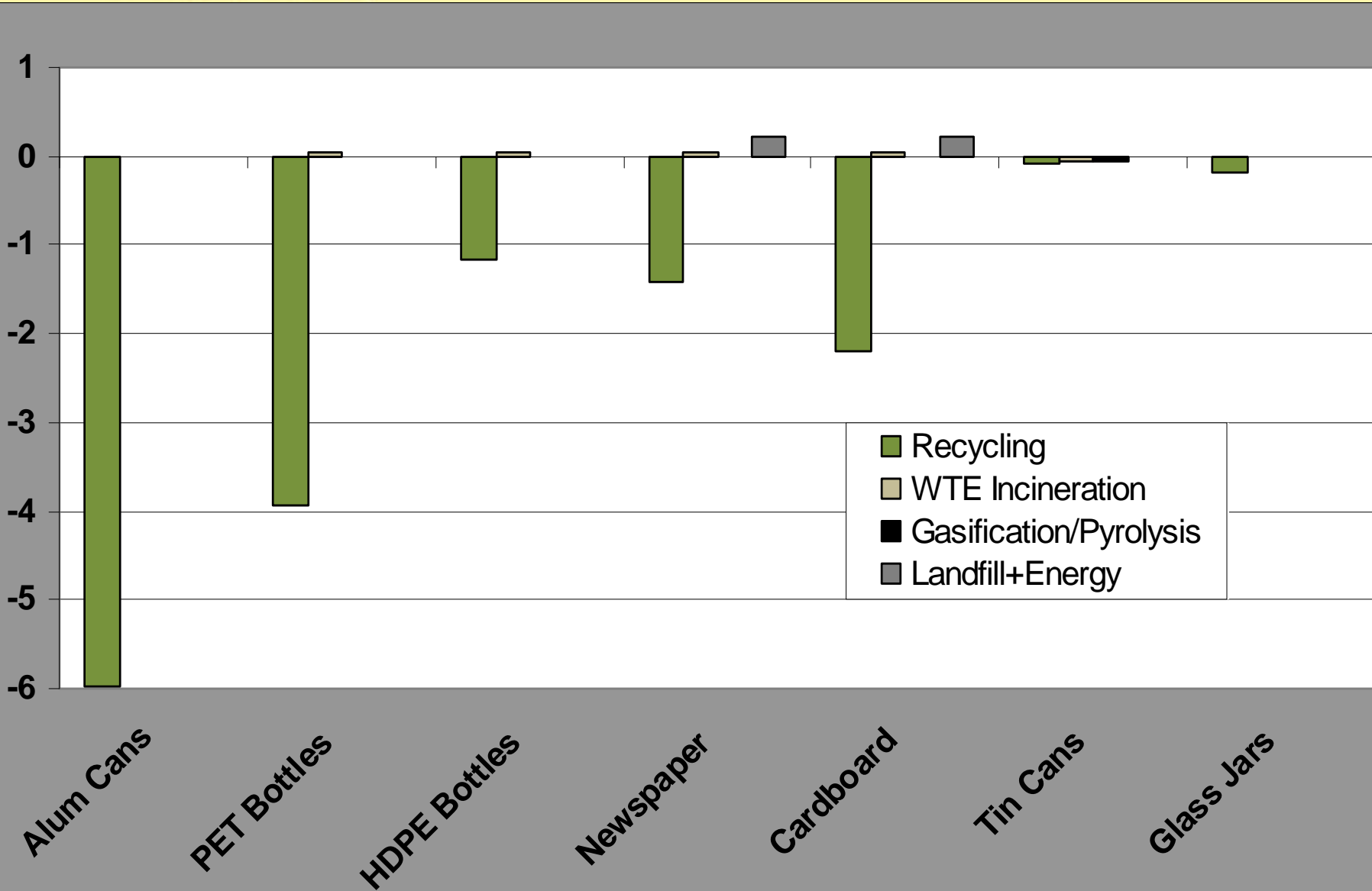


Toxics Emissions: Recycled & Virgin Products (tons eToluene/ton)

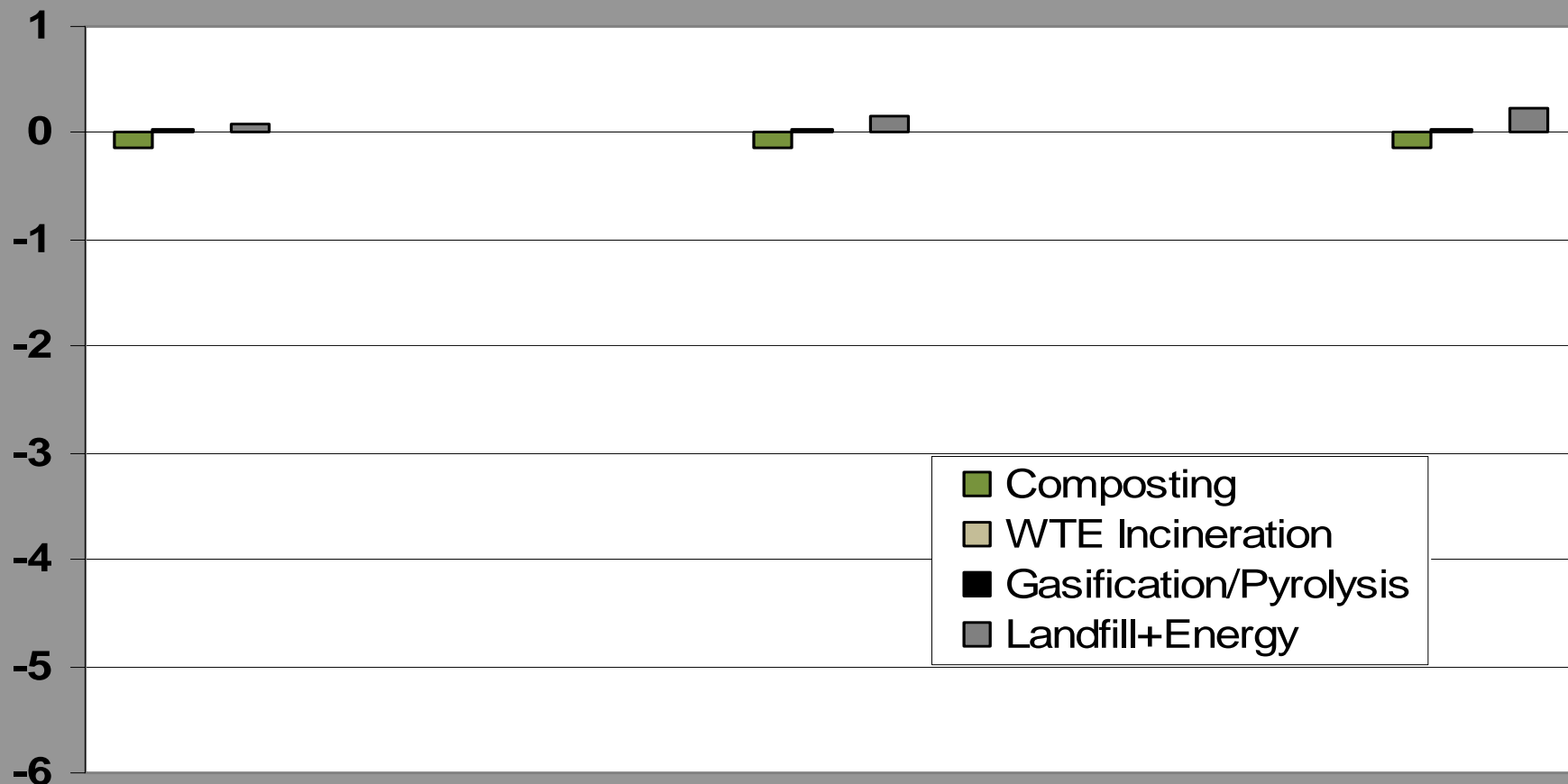




Toxics Emissions: Recycling vs. Disposal (tons eToluene/ton)



Toxics Emissions: Composting vs. Disposal (tons eToluene/ton)

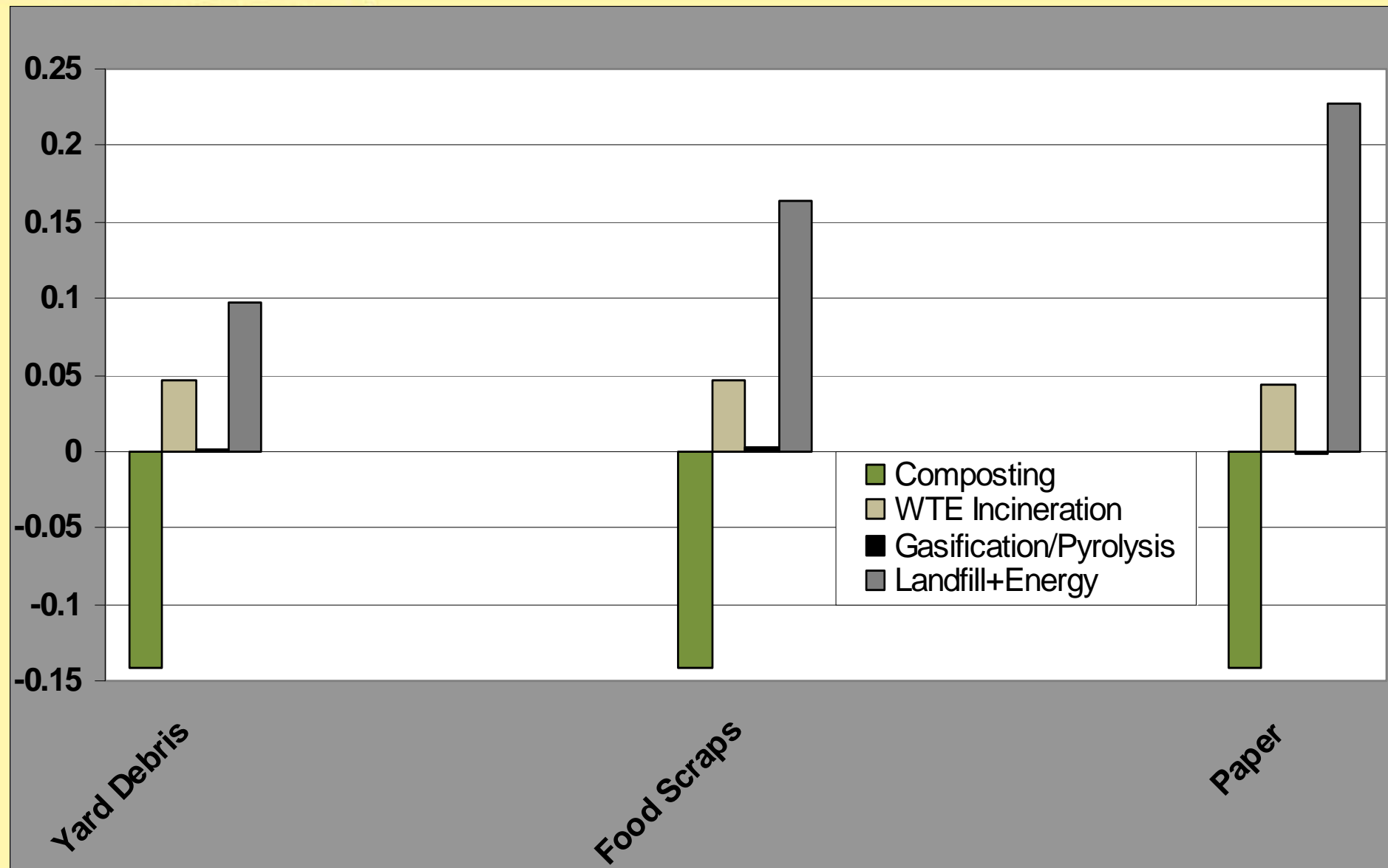


Yard Debris

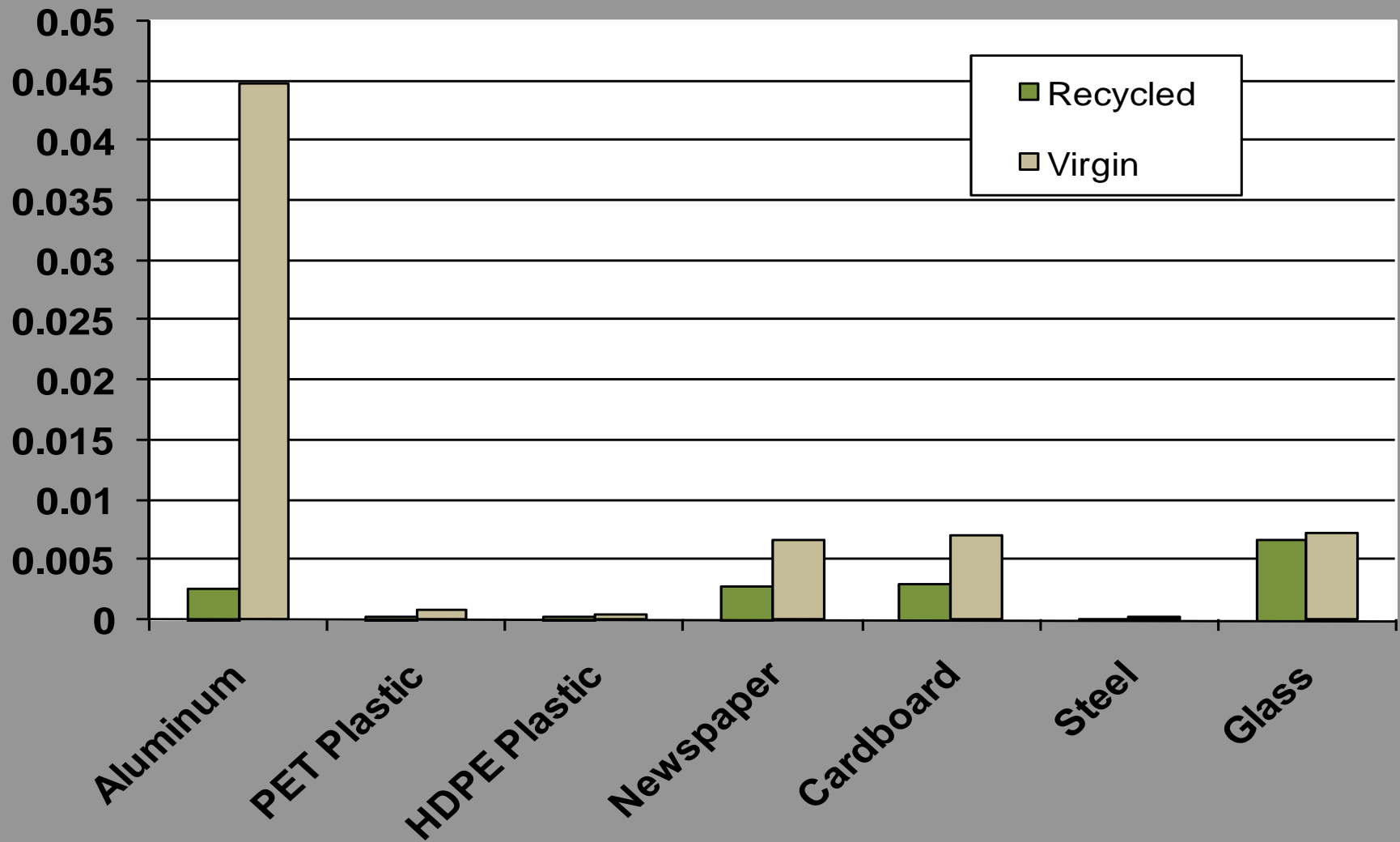
Food Scraps

Paper

Toxics Emissions: Composting vs. Disposal - expanded view (tons eT/ton)

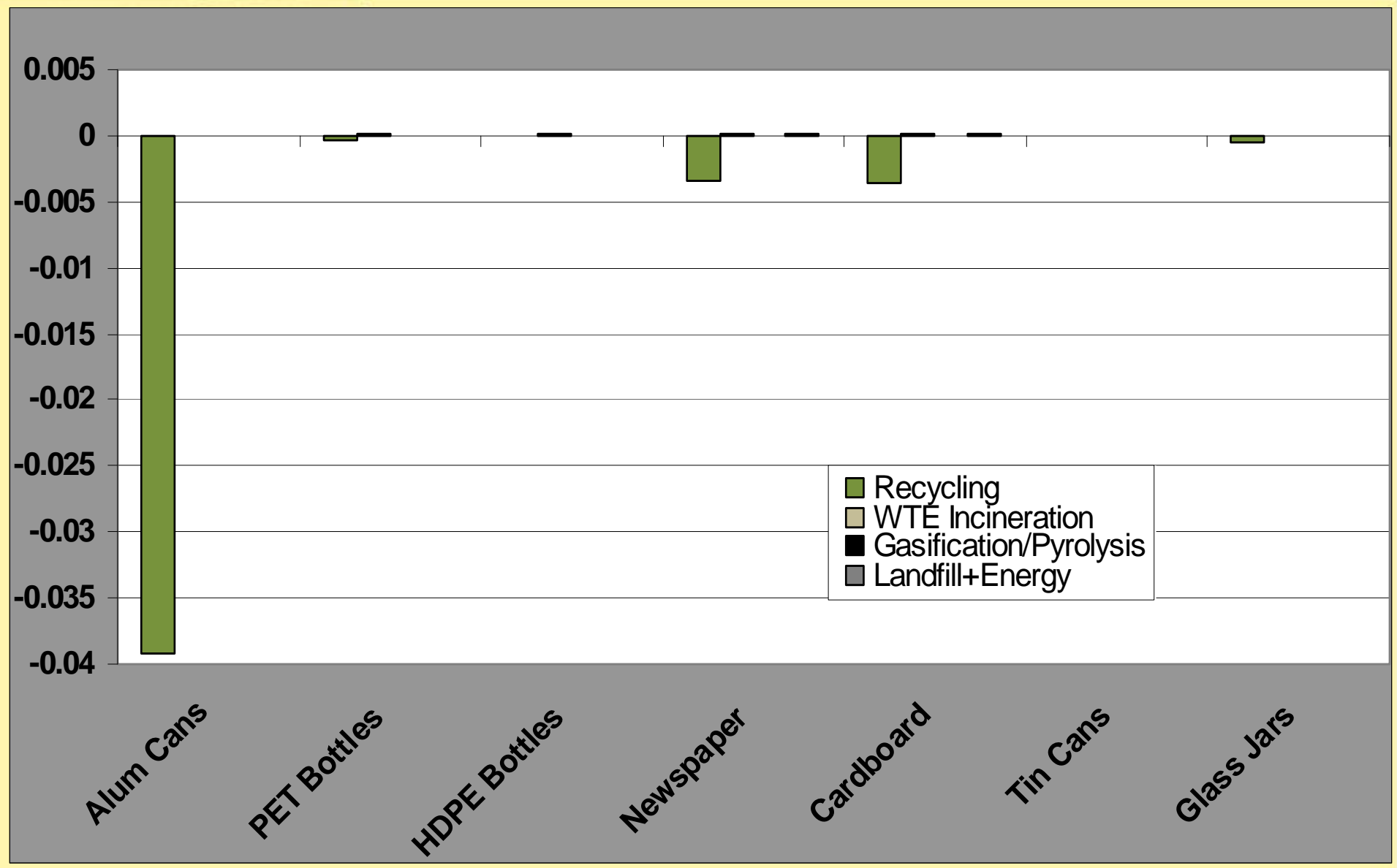



EcoToxics Emissions: Recycled & Virgin Products (tons e2,4-D/ton)



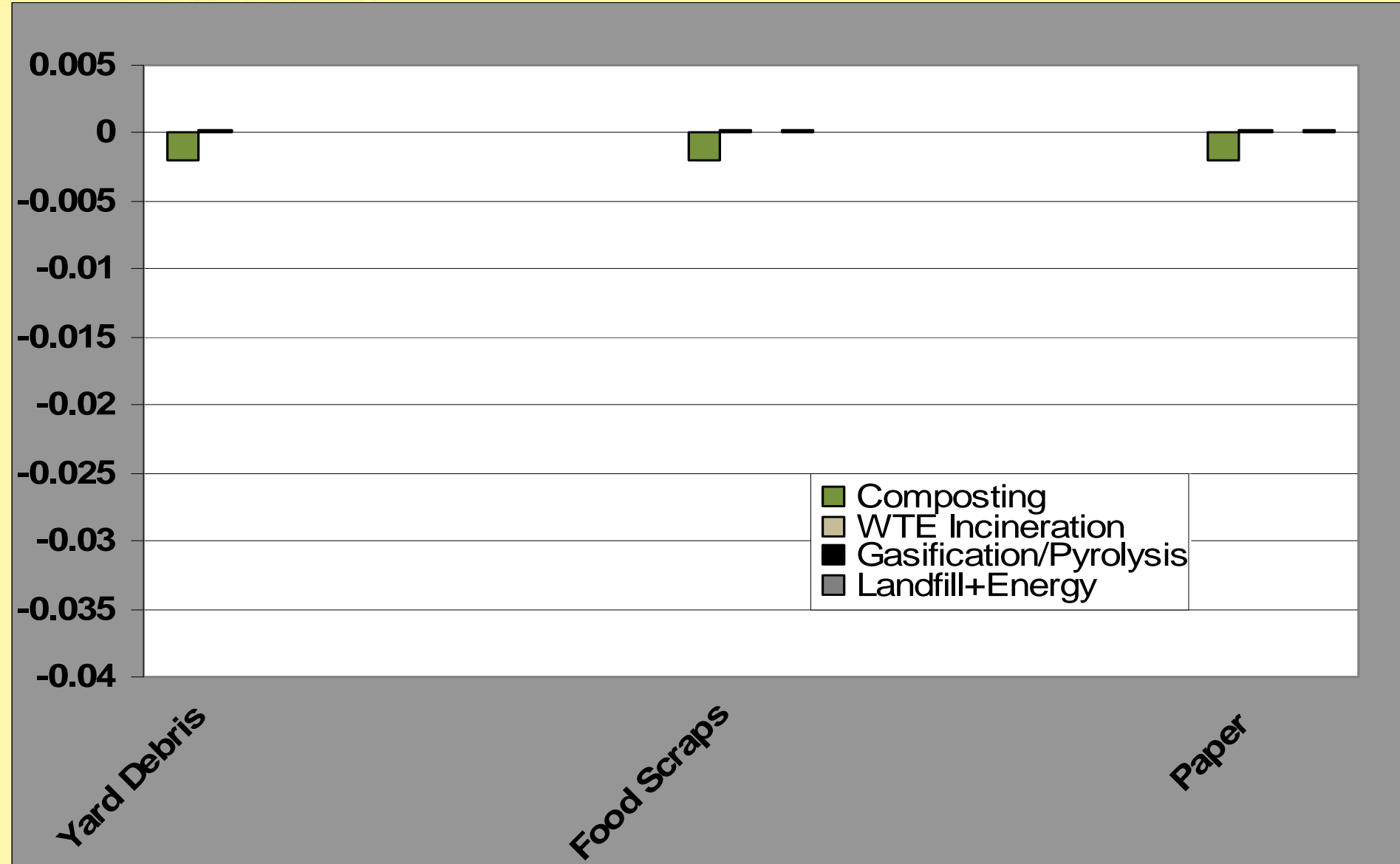


EcoToxics Emissions: Recycling vs. Disposal (tons e2,4-D/ton)

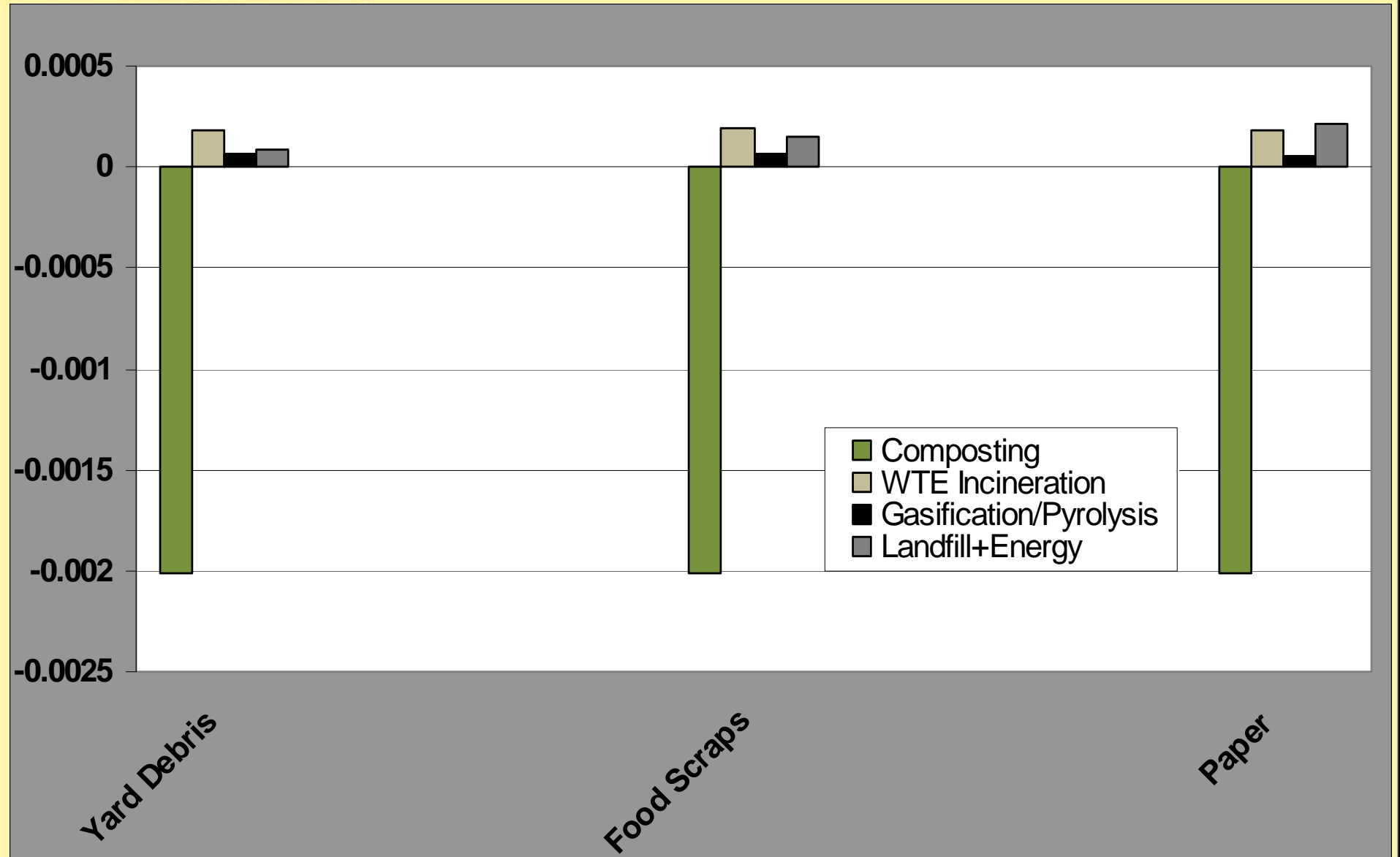




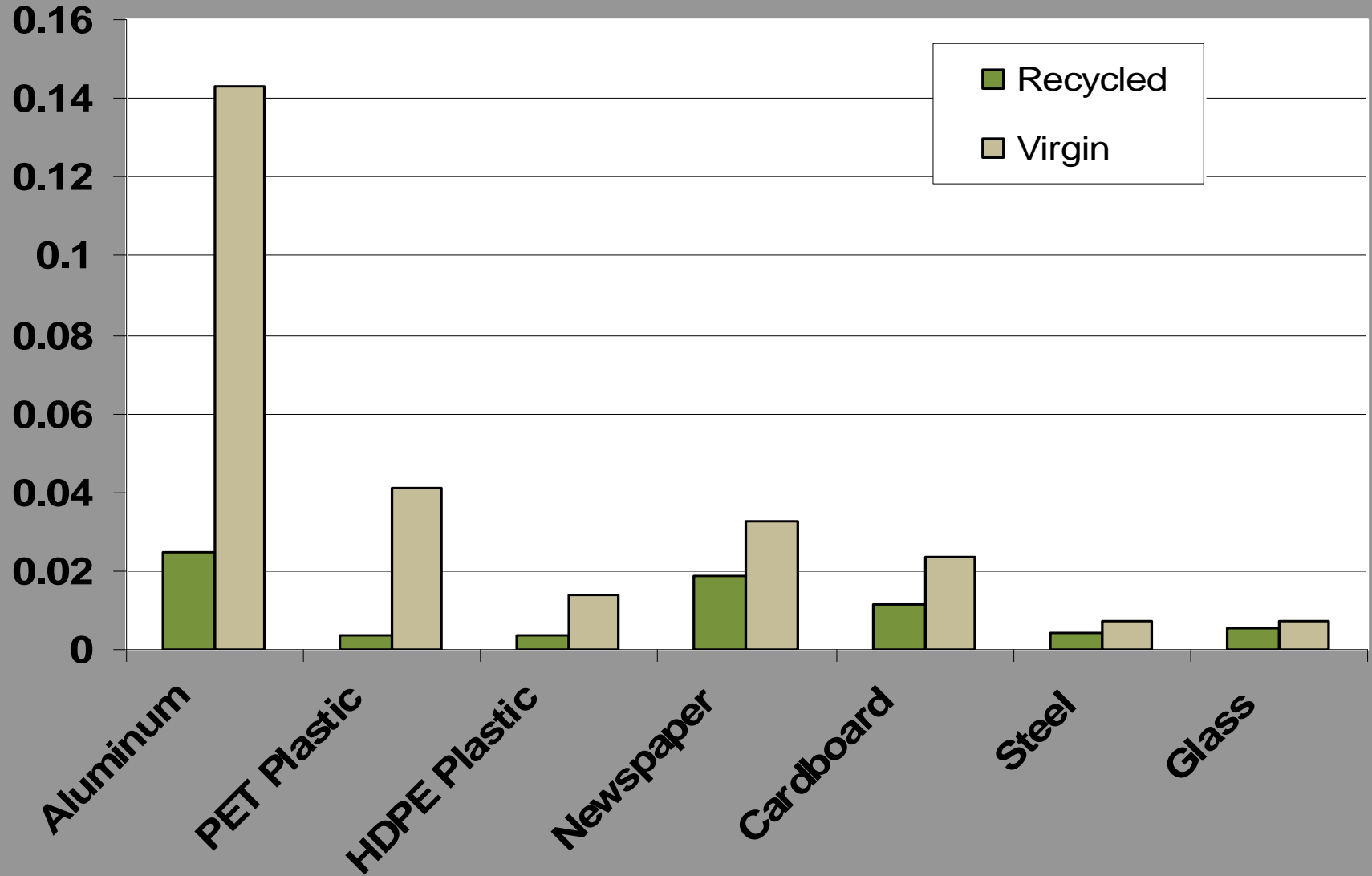
EcoToxics Emissions: Composting vs. Disposal (tons e2,4-D/ton)



EcoToxics Emissions: Composting vs. Disposal - expanded view (tons e2/ton)

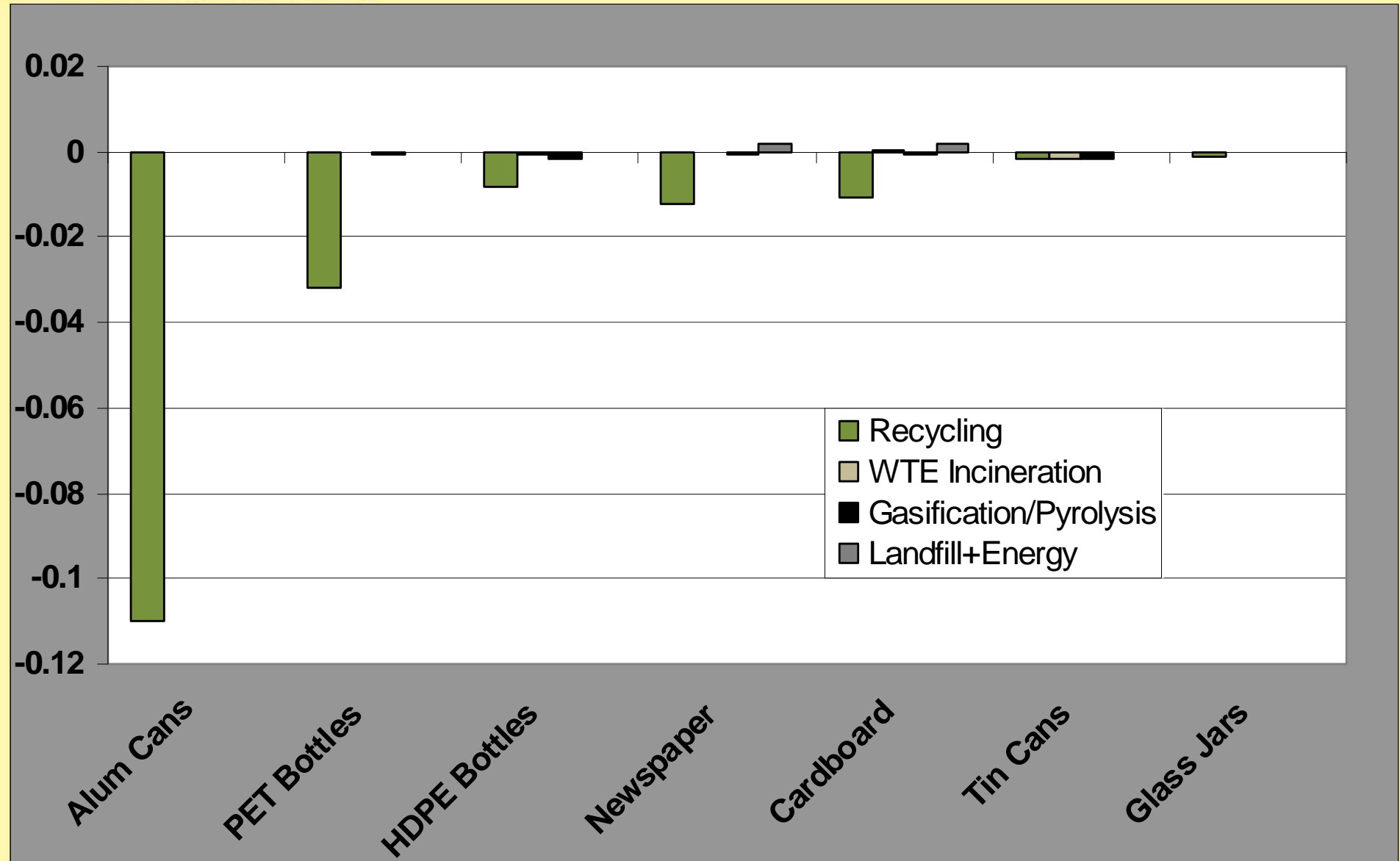


Acidifying Emissions: Recycled & Virgin Products (tons eSO₂/ton)



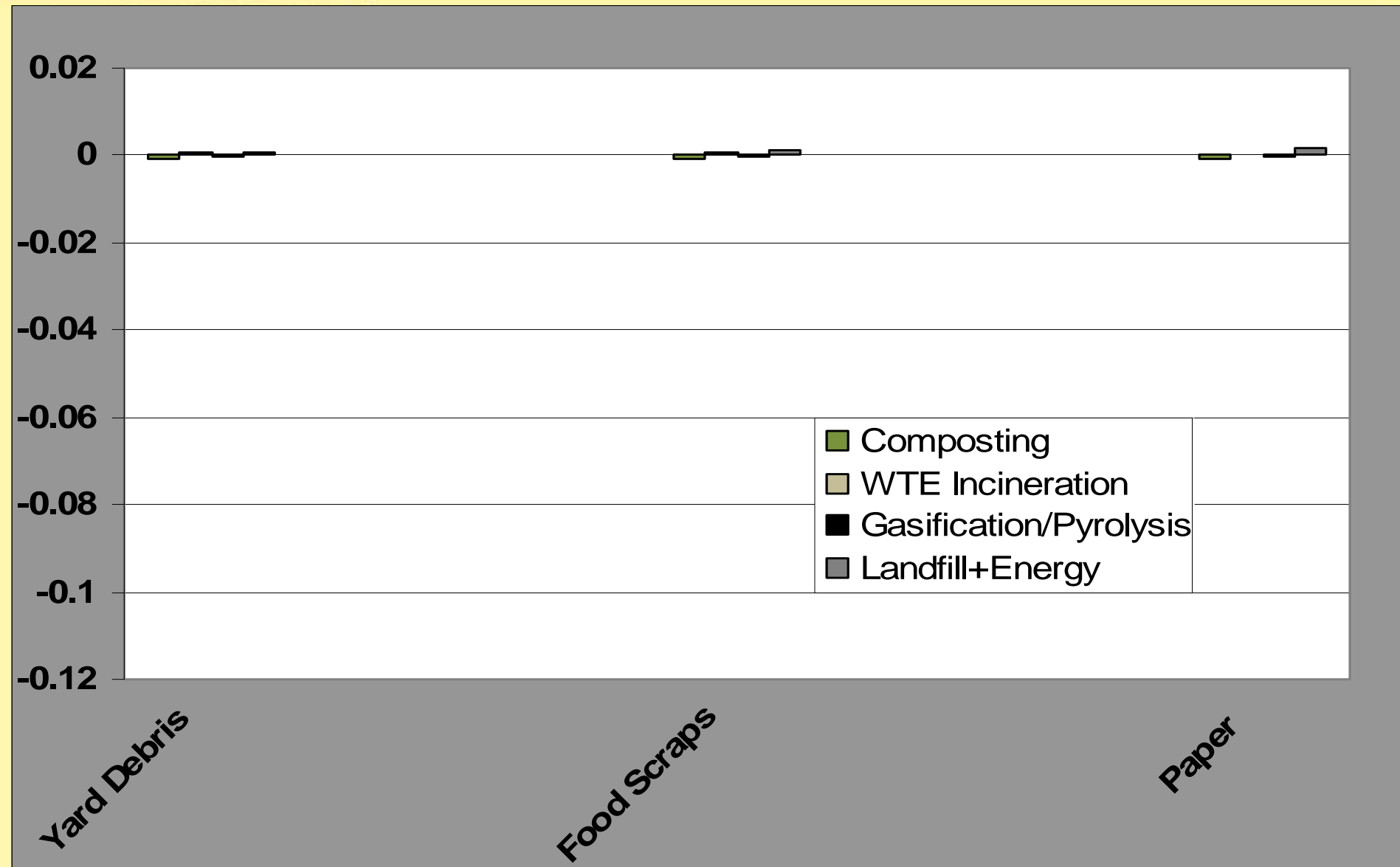


Acidifying Emissions: Recycling vs. Disposal (tons eSO₂/ton)

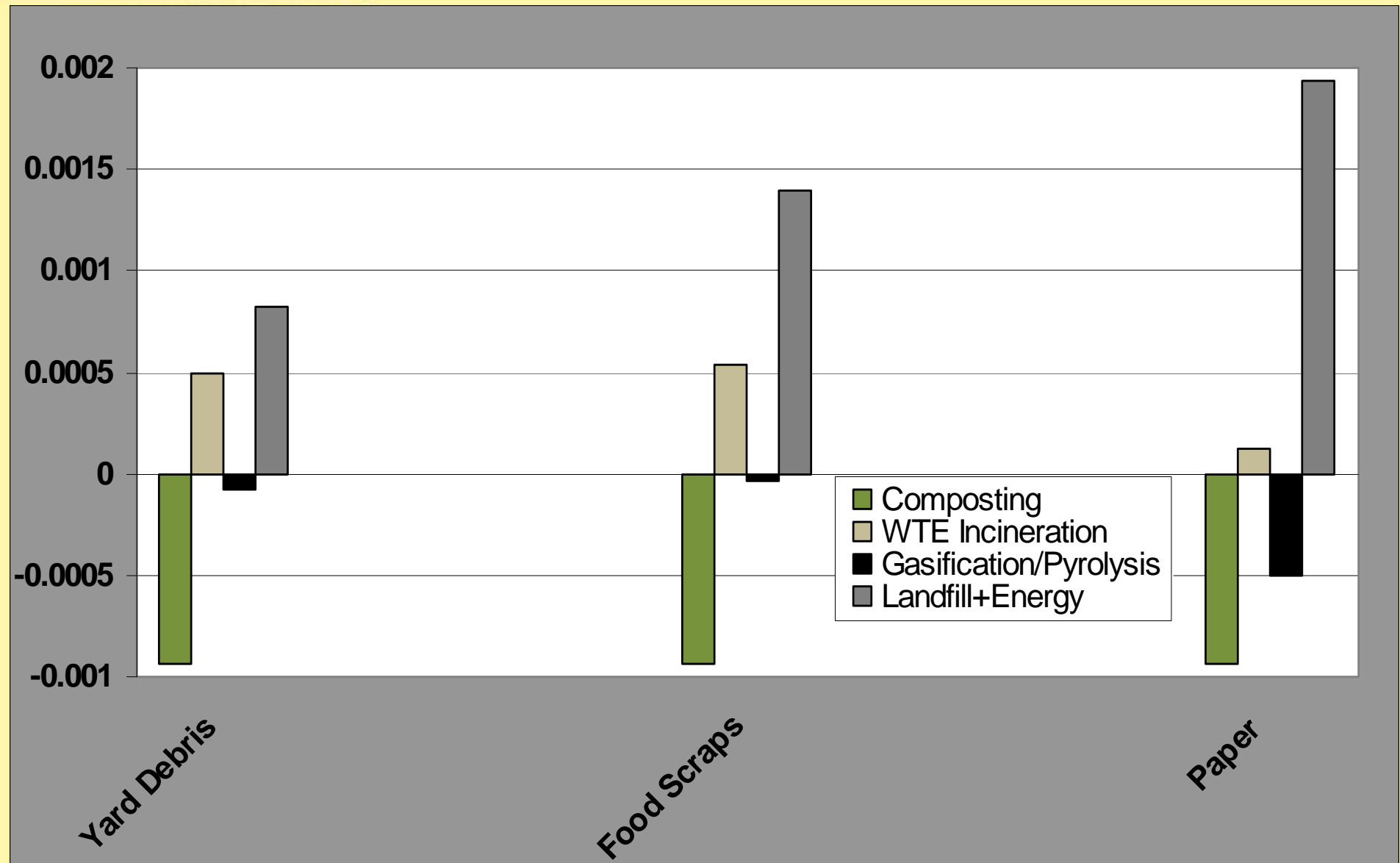




Acidifying Emissions: Composting vs. Disposal (tons eSO₂/ton)

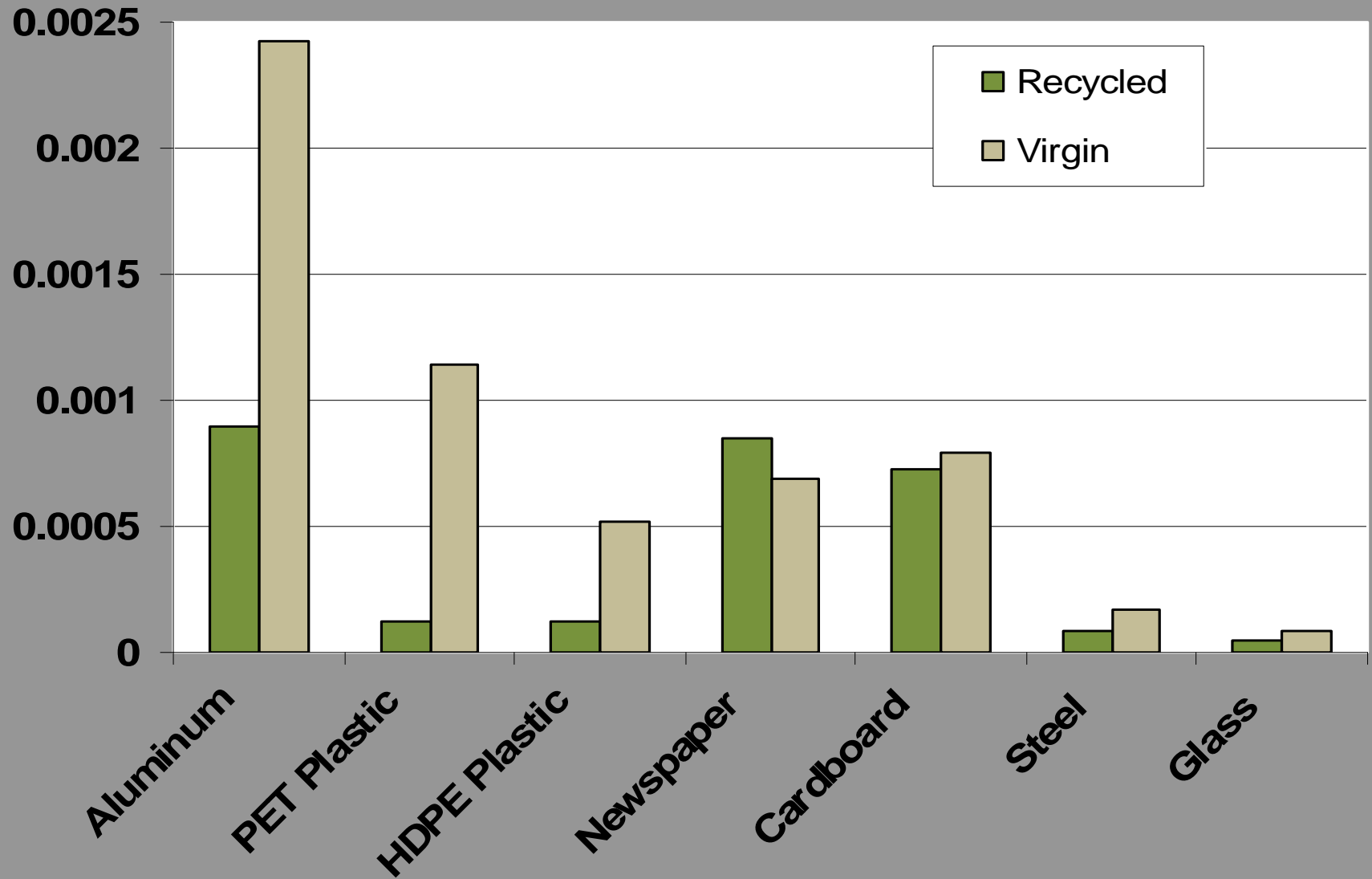


Acidifying Emissions: Composting vs. Disposal – expanded view (tons eS/ton)

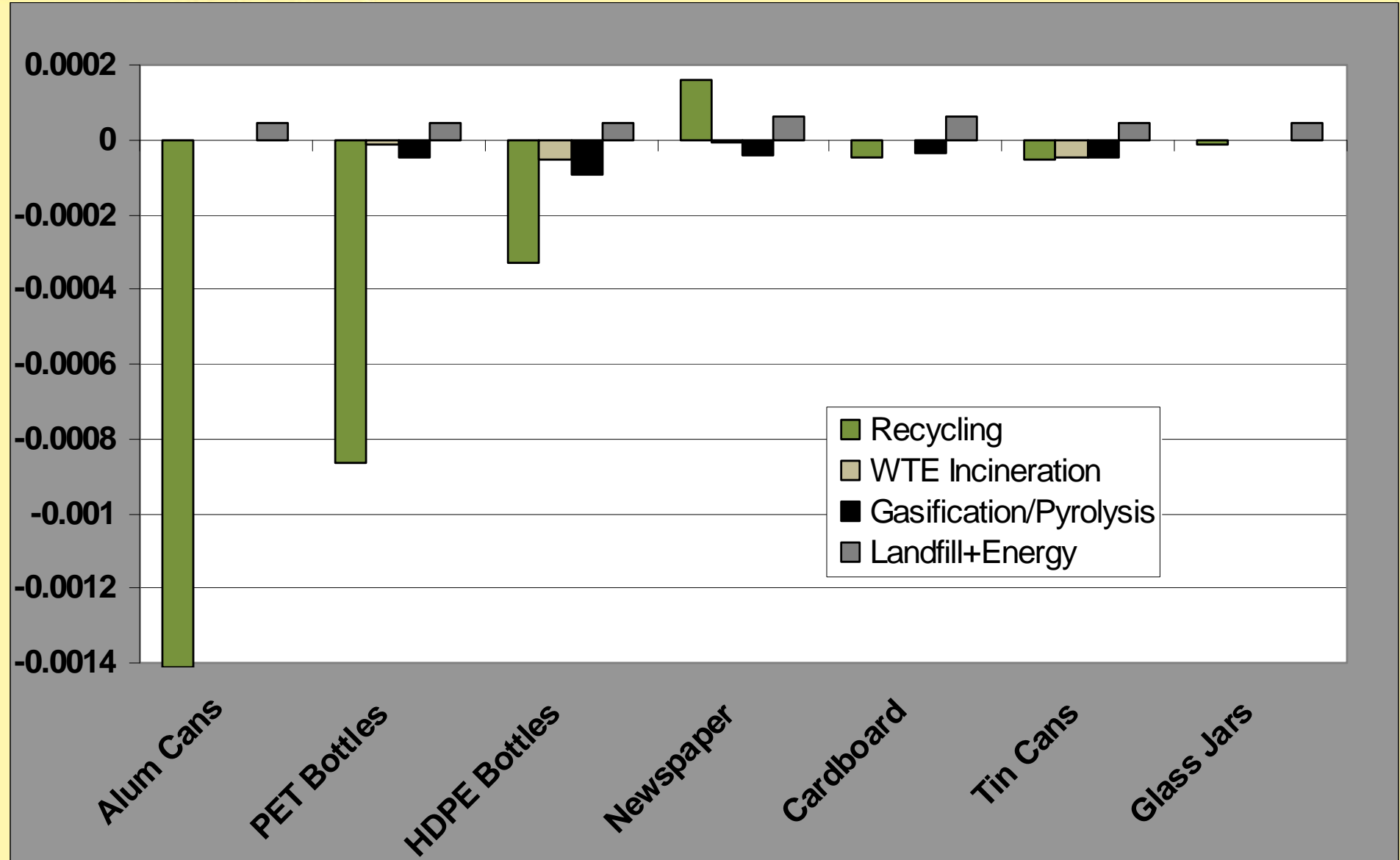




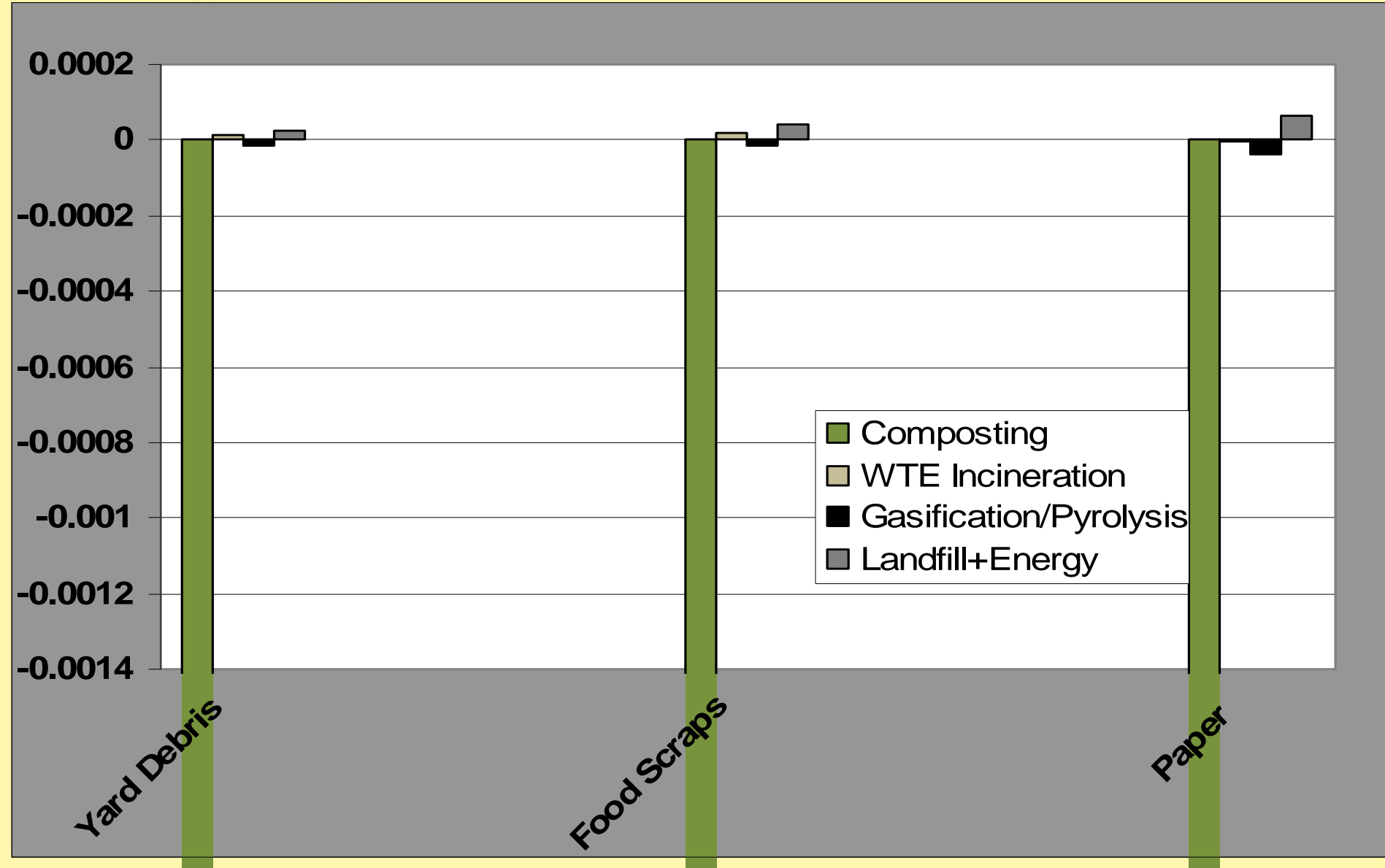
Eutrophying Emissions: Recycled & Virgin Products (tons eN/ton)



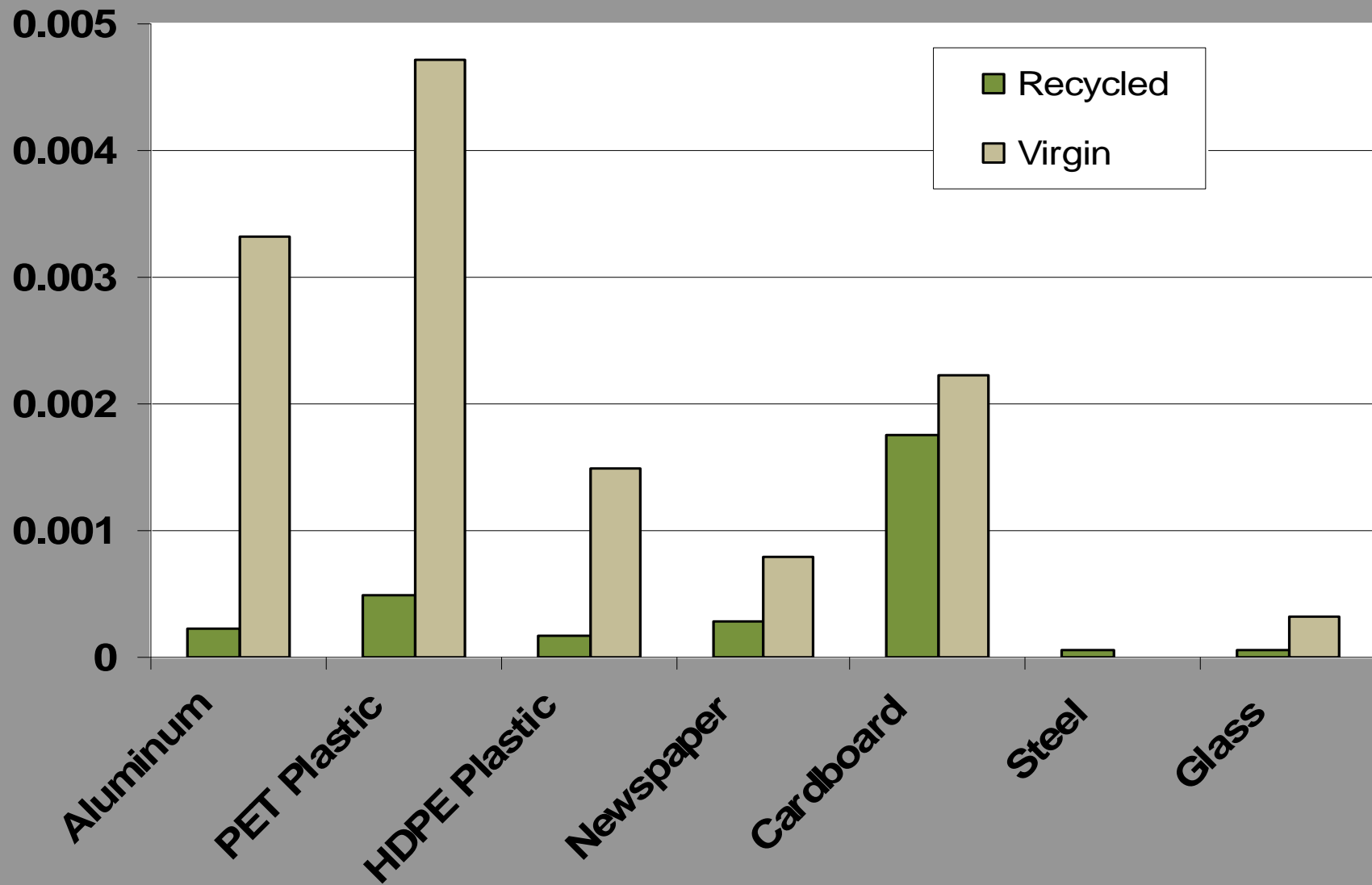
Eutrophying Emissions: Recycling vs. Disposal (tons eN/ton)



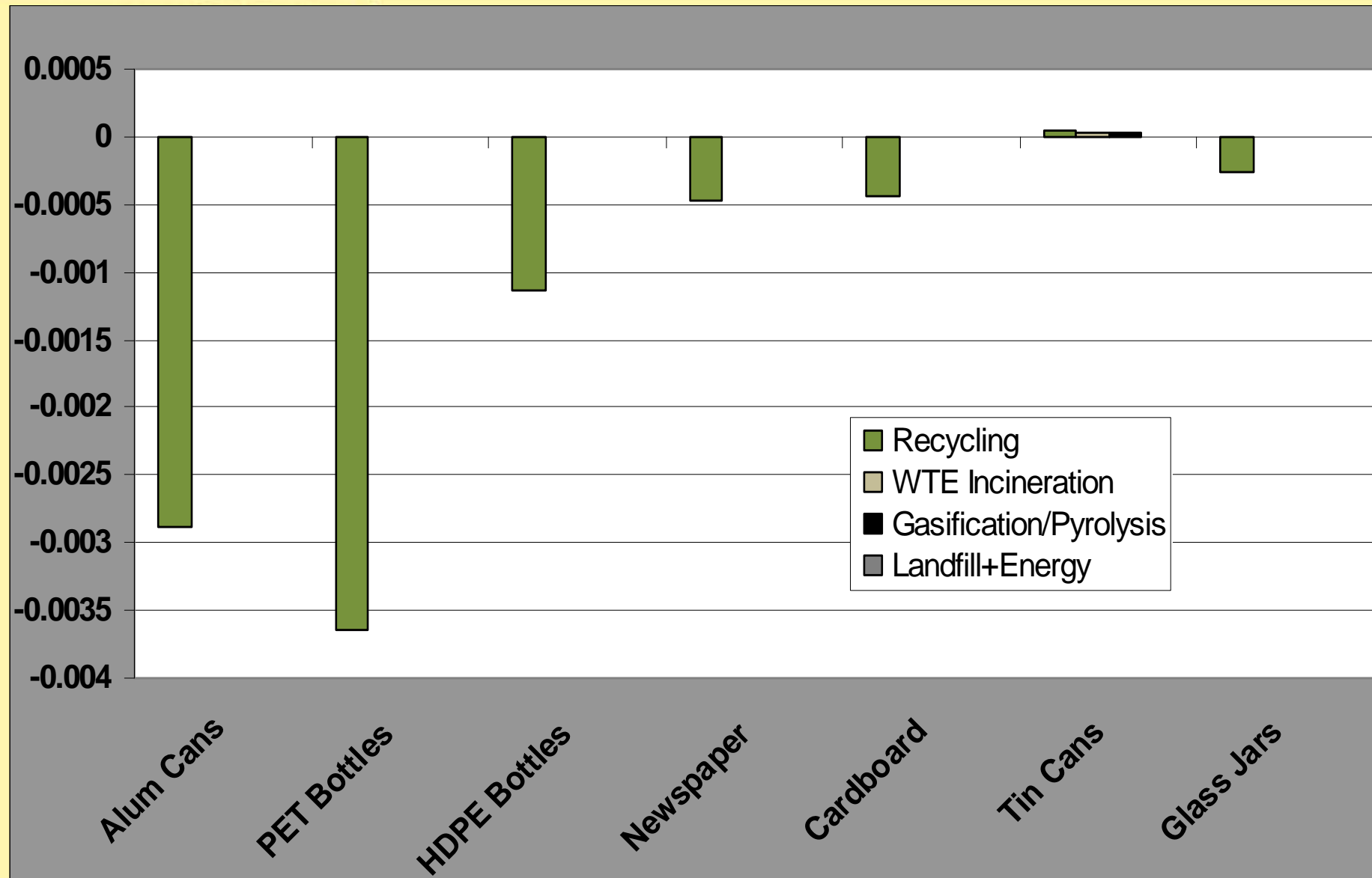
Eutrophying Emissions: Composting vs. Disposal (tons eN/ton)



*Carcinogenic Emissions: Recycling
& Virgin Products (tons eBenzene/ton)*

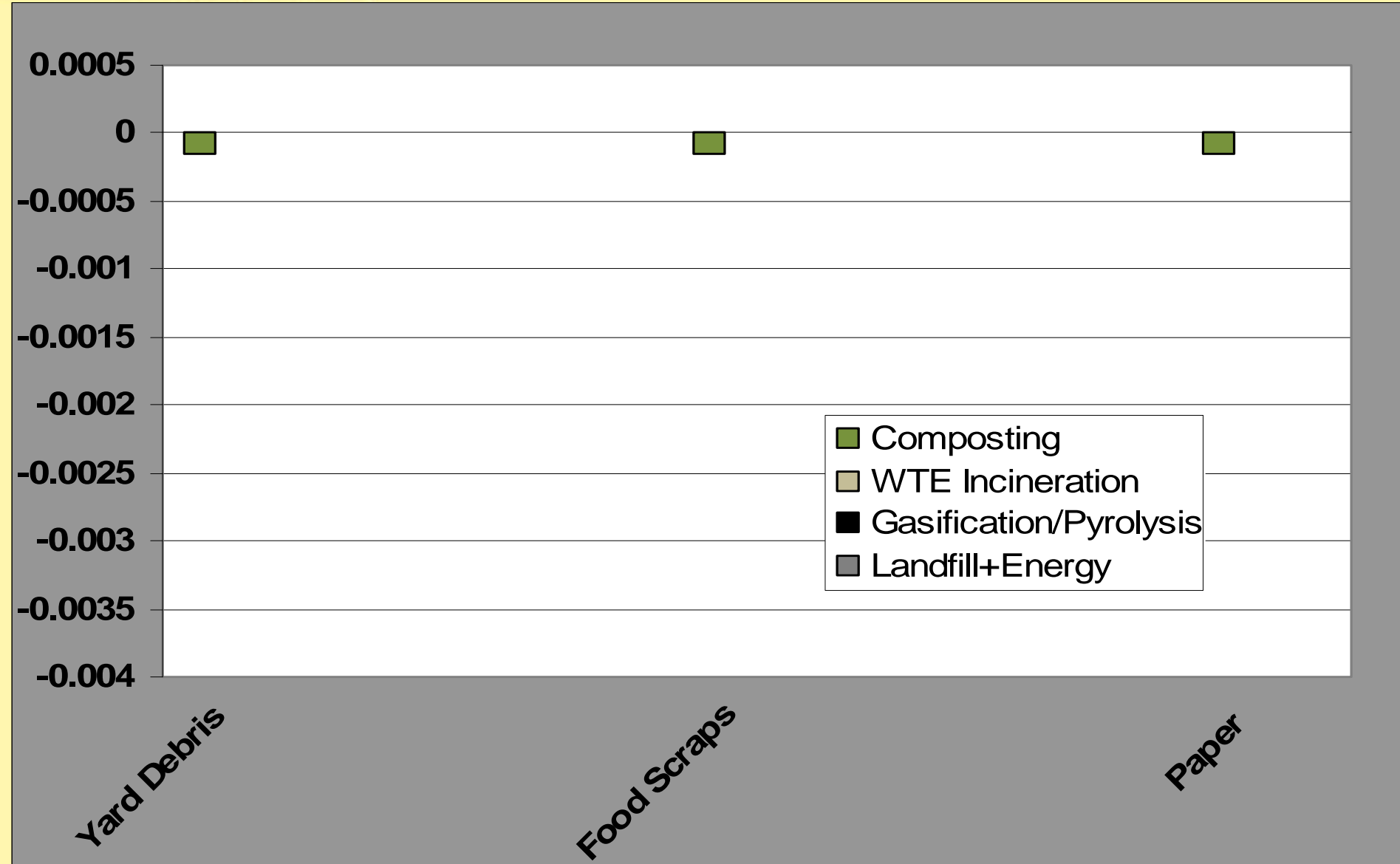


Carcinogenic Emissions: Recycling vs. Disposal (tons eBenzene/ton)

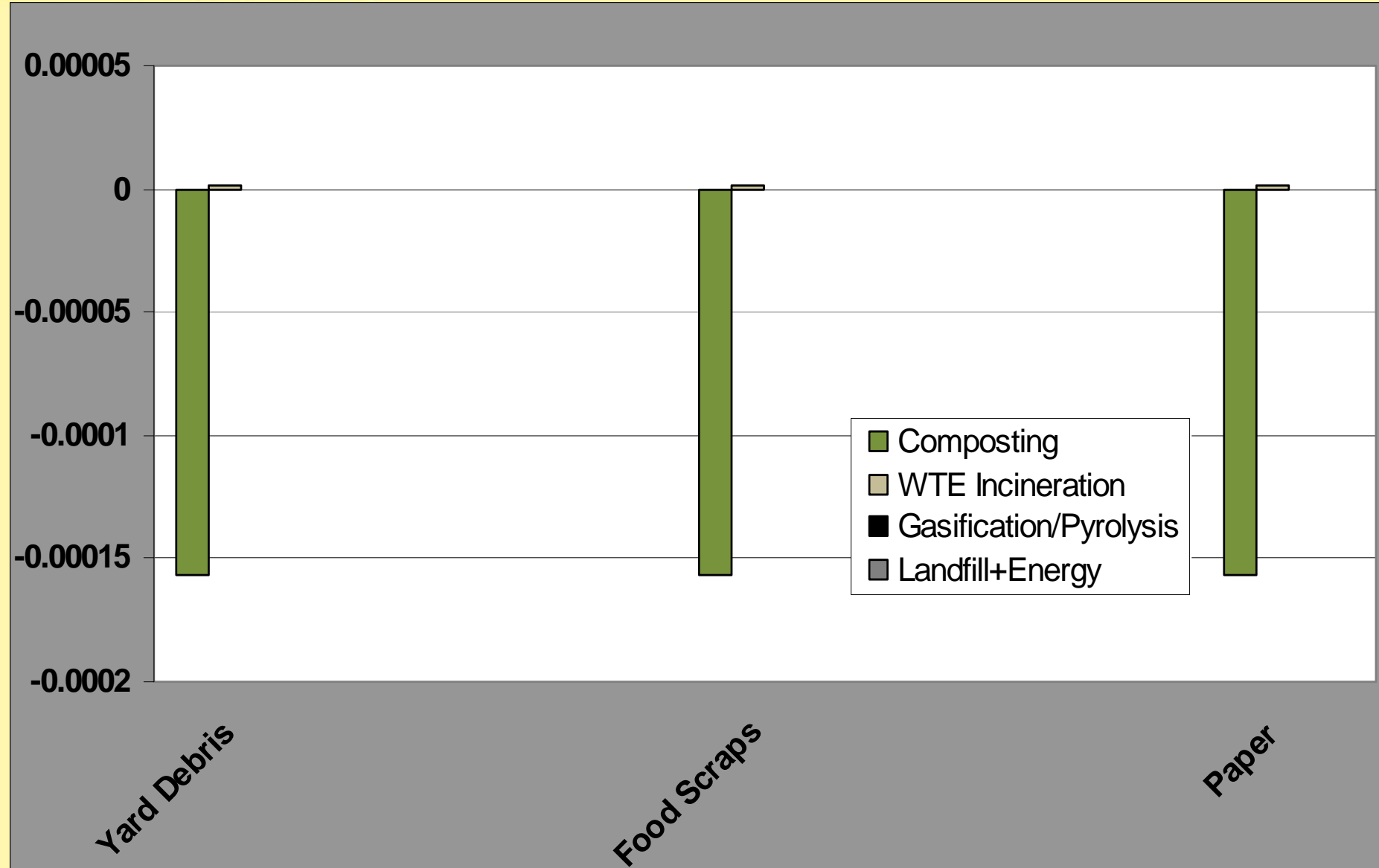




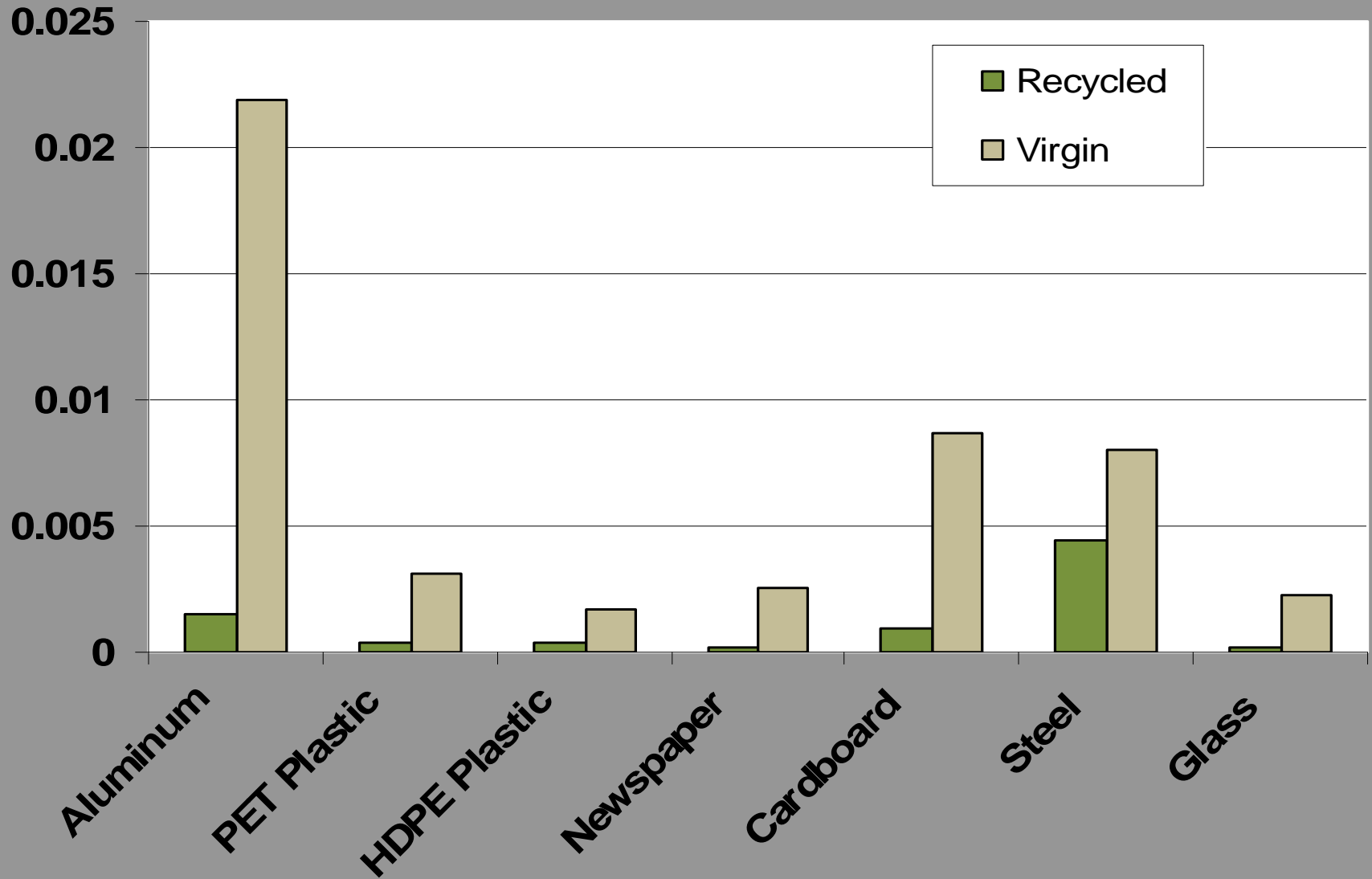
Carcinogenic Emissions: Composting vs. Disposal (tons eBenzene/ton)



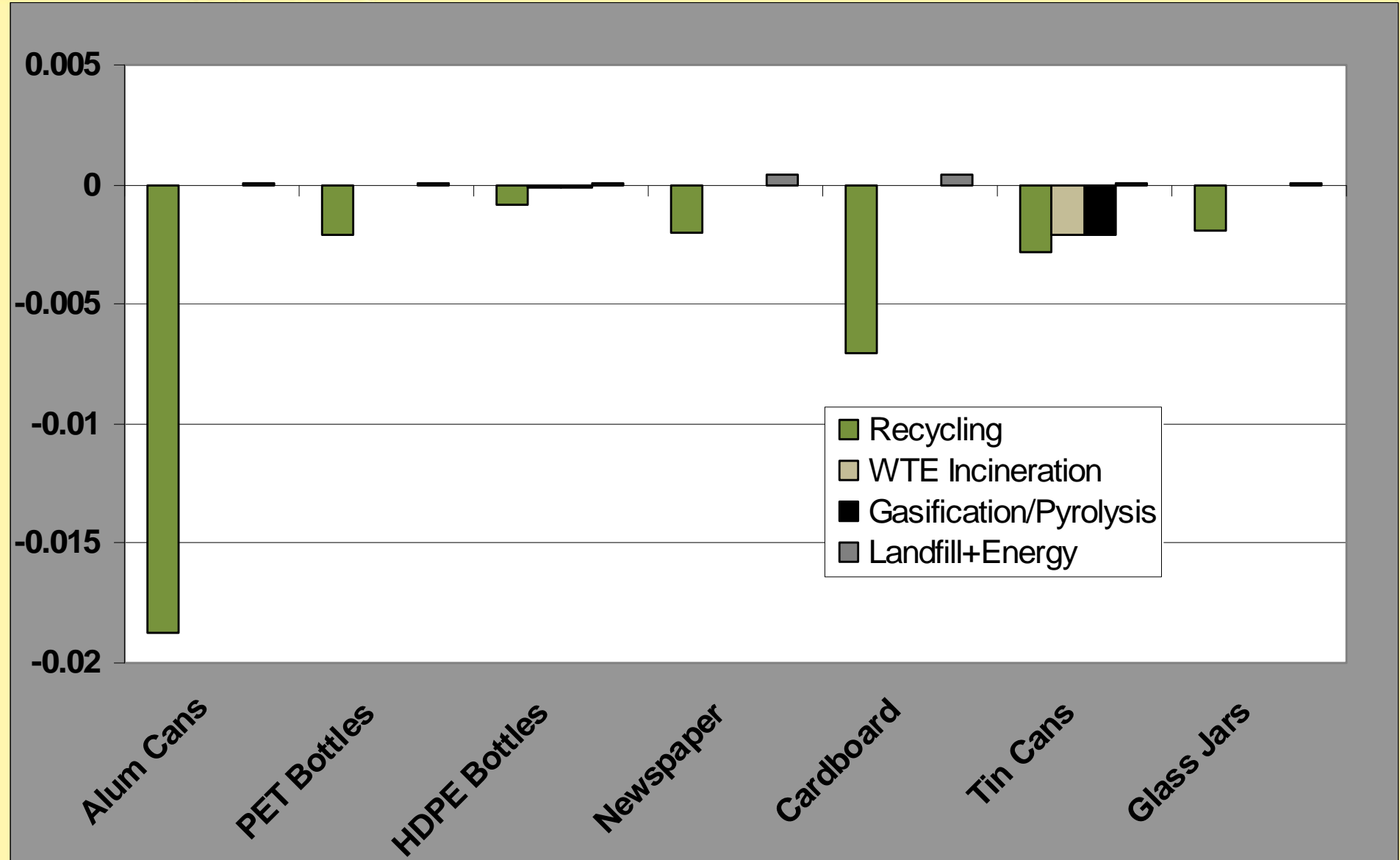
Carcinogenic Emissions: Composting vs. Disposal - expanded view (tons eB/ton)



Particulate Emissions: Recycled & Virgin Products (tons ePM2.5/ton)

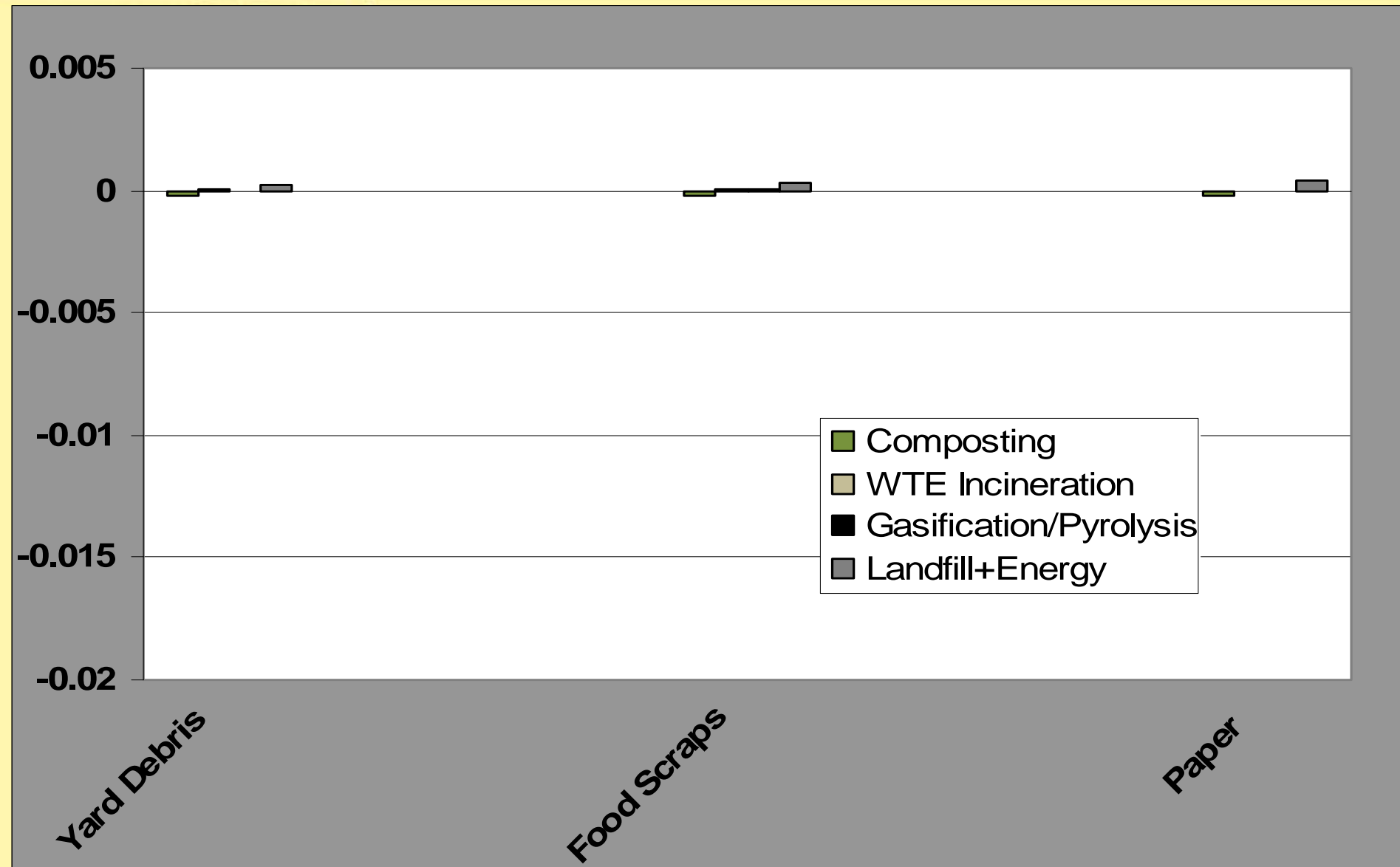


Particulate Emissions: Recycling vs. Disposal (tons ePM_{2.5}/ton)





Particulate Emissions: Composting vs. Disposal (tons ePM2.5/ton)



Particulate Emissions: Composting vs. Disposal - expanded view (tons ePM2.5/ton)

