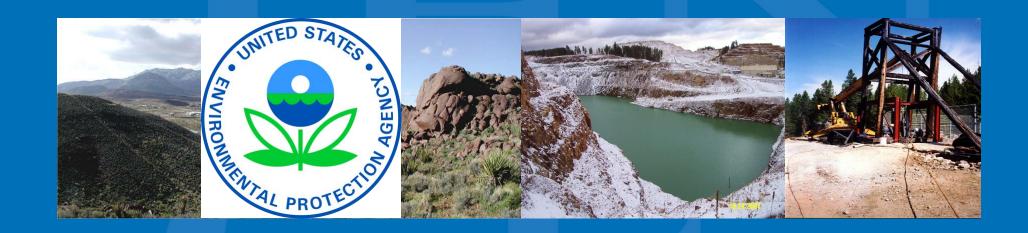


National Conference on Mining-Influenced Waters: Approaches for Characterization, Source Control and Treatment





A long time ago......









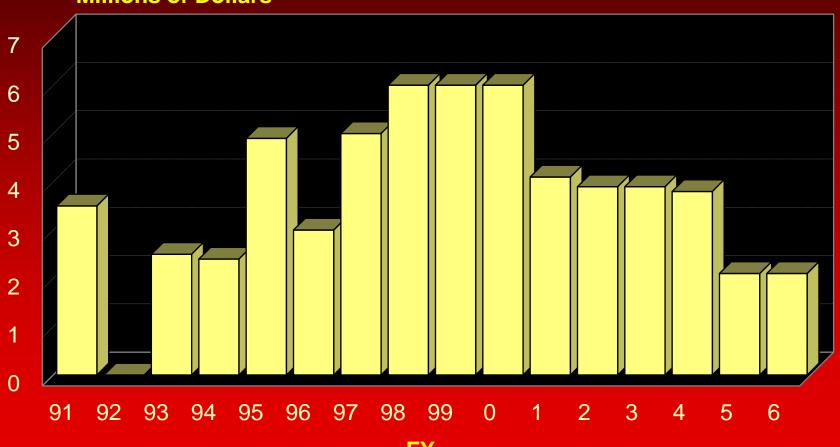


FUNDING HISTORY



Mine Waste Technology Program

Millions of Dollars





CSS Task 5.1.2 Subtask: Identifying Opportunities for the Sustainable Management of Rare Earth Element (REE) Applications

Team Members: David Meyer, Diana Bless, Mandy Radulea and Michael Gonzalez



Uncovering the Global Life Cycles of the Rare Earth Elements
Adapted from Xiaoyue Du & T. E. Graedel



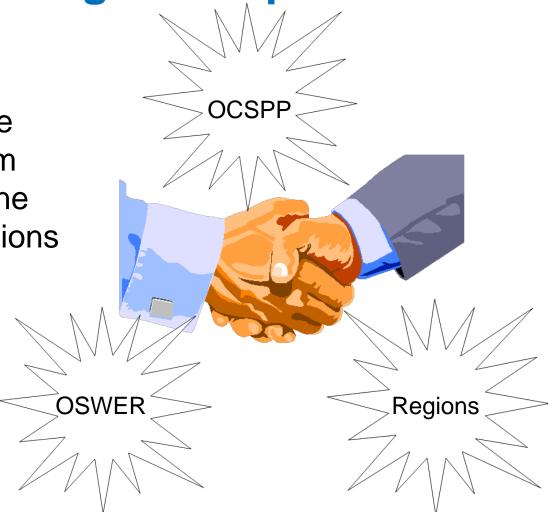
Objective

 Collaborate with EPA Regions and Program Offices to identify relevant issues associated with the life cycle of products and services related to rare earth elements (REEs) and electronics (e-waste and recycling).



How is this being accomplished?

 Engage internal stakeholders from the Regions and Program Offices through routine collaborative discussions and review of results and/or products.





List of REE Workgroup Members

NAME/Region or Program Office
Ronald Landy/Region 3 RSL
Kim Bartels/Region 8/Electronics Stewardship Coordinator
Steve Fishman/Region 7/eCycling Program Coordinator
Robert Weber/Region 7/
Niva Kramek/ OCSPP CSS Liaison
Steve Hoffman/OSWER
Christopher Newman/Region 5
Kathleen Raffaele/OSWER CSS Liason
Brenda Groskinsky/ Region 7/ RSL
Sara Willis Hartwell/OSWER/ORCR
Karen Pollard/ OSWER
John Katz/Region 9
Nicholas Anastas/Region 1
Dan Gallo/ Region 3
Holly Elwood/ OCSPP



Outcomes

- Material Flow Analysis based on product life cycles for various industrial sectors
- Raw Materials U.S. and Globally
- E-waste Flows based on Consumer Electronics
- Non e-waste Flows based on REEs & other industrial applications
- Recovery facilities Analysis of Current Operations
- Economic Evaluation Current trends



Next Step & Deliverables

- Literature Search on Material Flow Analysis to fill in current data & research gaps.
- REE Workgroup has picked 1-3 elements/1 application
- Final Deliverables will be:
 - -a. A report looking at the issues of e-waste, specifically life cycle assessment based on stakeholder input of a selected rare earth element application to support sustainable materials management.
 - -b. A description of the integration of GREENSCOPE into LCA for developing globally sustainable chemical production systems with demonstrated application toward a Rare Earth Element Application.