



SOLVAY

asking more from chemistry®

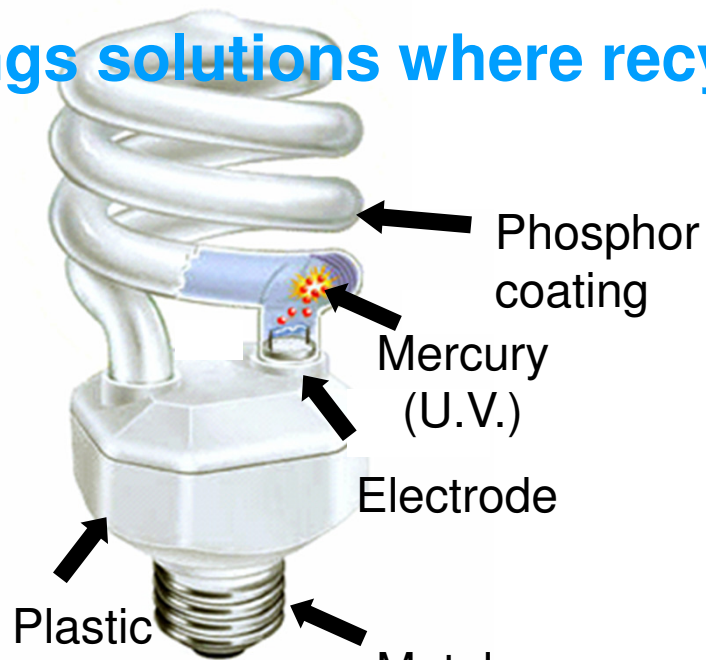
RARE EARTH RECYCLING

Cefic RC Award – General Category



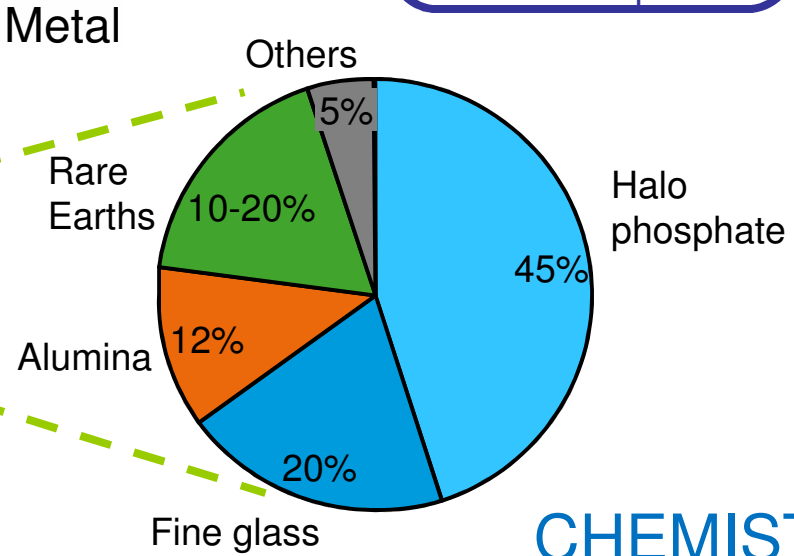
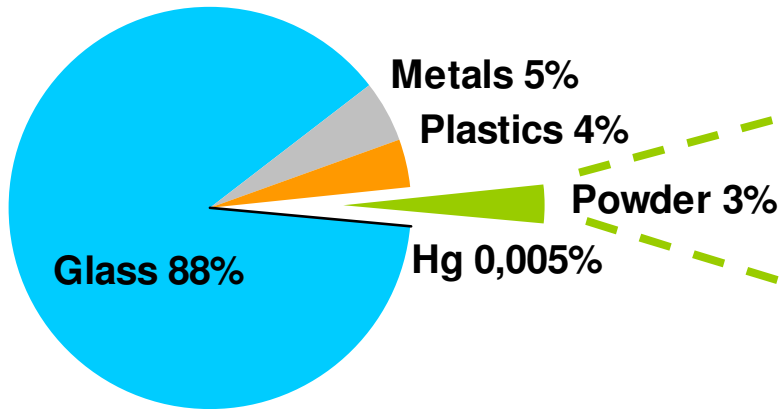
1st joint Responsible Care & SPiCE³ Conference
Amsterdam
December 2nd 2013

Chemistry brings solutions where recyclers can't



Lamp Composition

Waste phosphor Powder Composition



RECYCLER

CHEMIST

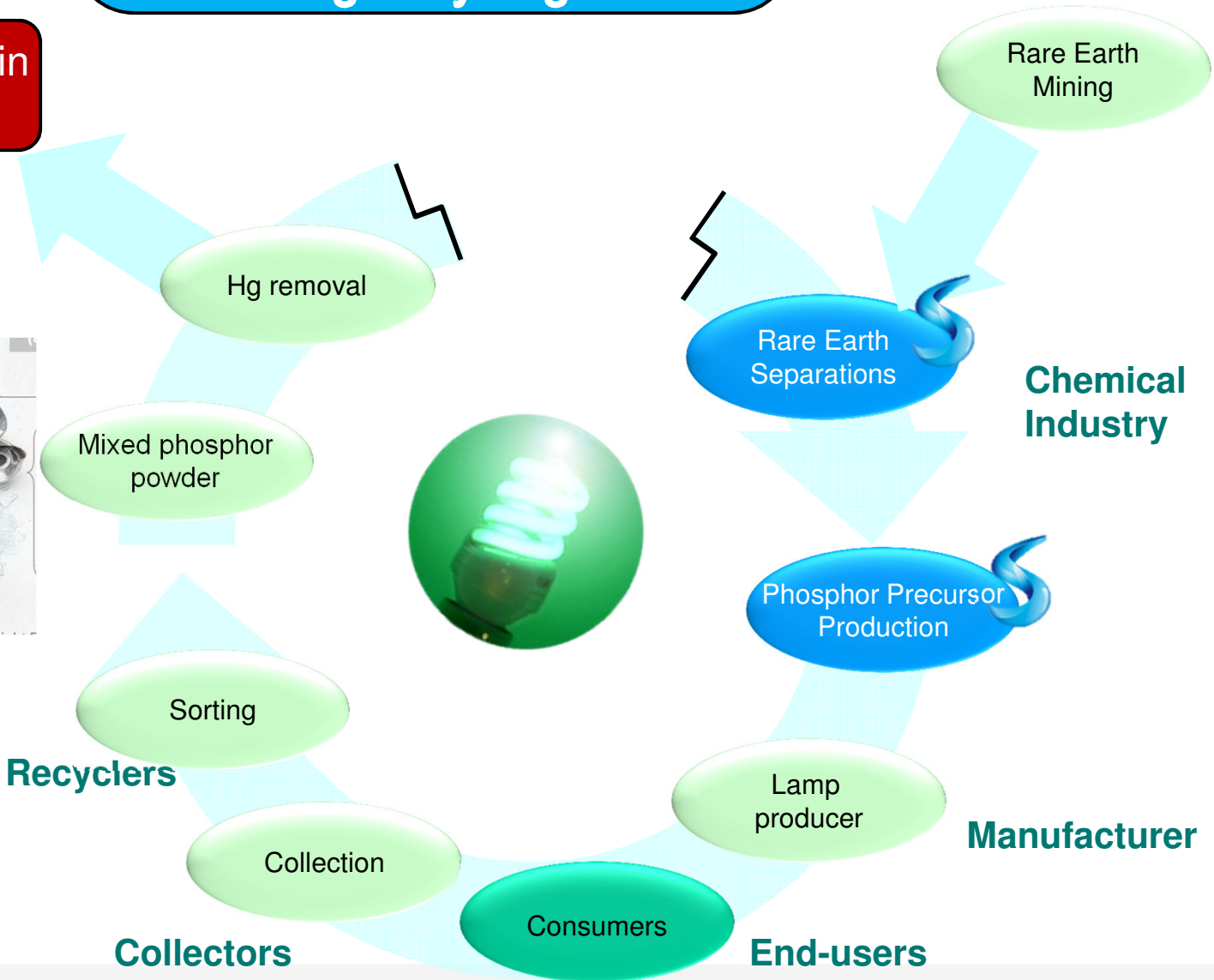
Size > 1 mm
Physical separation

Size << 1 mm
Chemical separation



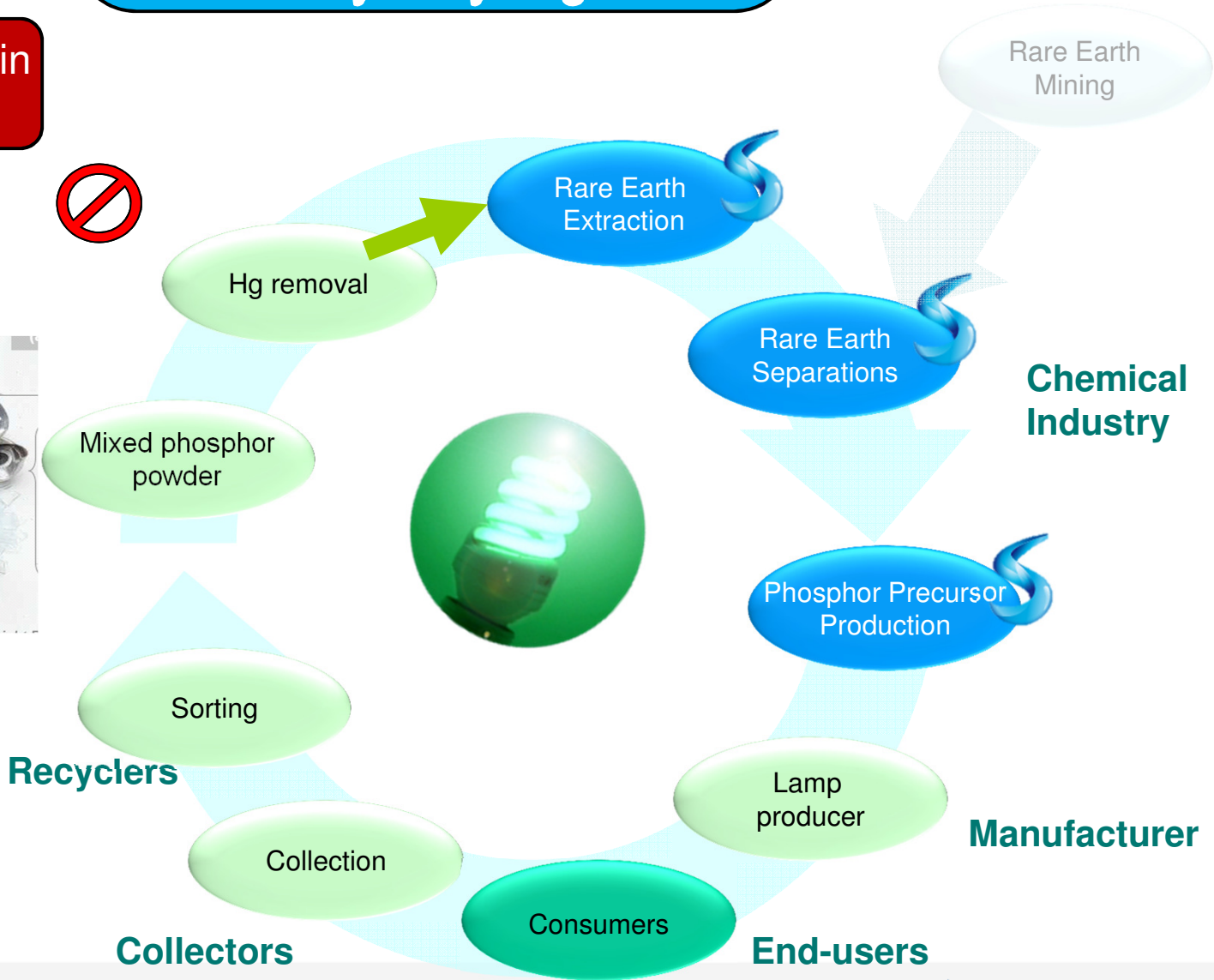
Low Energy lamps Pre-existing Recycling Scheme

Phosphor powders in
Level 1 landfill



Closing the Loop The Solvay Recycling Model

~~Phosphor powders in
Level 1 landfill~~



SOLVAY Rare Earth Recycling project achievements

- New source of rare earth metals, alternative to mining
- Completion of the loop on Low Energy fluorescent lamps
- Creation of new permanent job positions



Our ambitious Sustainable Development policy

Five priority objectives

SOLVAY *Way*

- 1** To achieve excellence in safety, health and occupational hygiene for everyone on our sites
- 2** To realize an increasing share of our sales in markets or with portfolio of activities meeting the requirements of sustainable development
- 3** To continuously improve the performance of our technologies, processes and products so to avoid injuries and limit their environmental impact throughout the lifecycle of our products
- 4** To reduce greenhouse-gas emissions, energy and water consumption, and negative impacts on soil, water and air quality, as well as the use of resources
- 5** To develop rich and balanced social dialogue



Sustainable Development – Developing a model of Sustainable Chemistry

