



ECS REFINING Changing the shape of what matters.



Responsible recycling and end of life services for electronics,
industrial equipment and hazardous wastes.

Jim Taggart, Founder & CEO

June 15, 2011

ECS REFINING

Our Plants, Our Process.

We work with our clients to design a refining process that solves their needs, unlocks value in a variety of materials, and reduces the demands on our natural resources.



Recovery and Refining
Asset Management
Refurbish and Remarketing

Our Story, The History.

Where We Came From

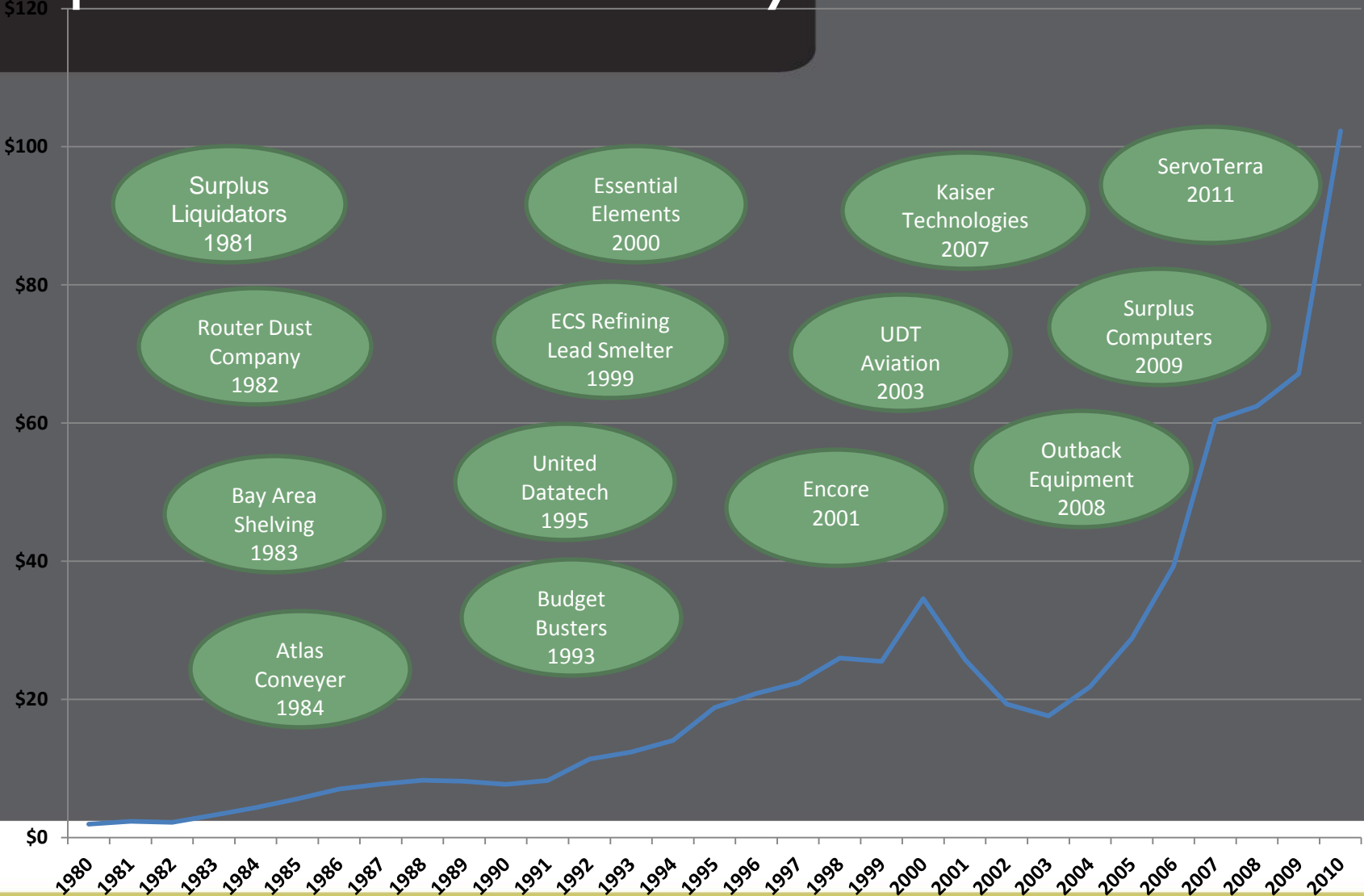
Started in 1980 assisting Silicon Valley high-tech companies handling manufacturing scrap residues and hazardous wastes to recover precious metals.

What Has Happened

Organic Growth and Strategic Acquisitions

- Added processing facilities to our footprint
- Integrated key technologies
- Ability to efficiently manage and process post-consumer scrap
- Servicing broader customer segments

Acquisition & Revenue History



Our Story, Refined.

Who We Are Today – Services & Divisions

- A full service E-waste Recycling and Asset Management company
 - 2010 revenues over \$100M
 - National “footprint”
 - N. California (4), S. California, Texas, (3), Oregon, and Ohio
 - Automated Processing lines – Multiple shredders, magnetic separators, eddy current separators, optical sorters, in-line sampling systems, etc
 - Precious Metals recovery – sampling furnaces, ball mills, assay labs
 - “Asset Management” and Resale companies
 - United Datatech, Surplus Computers, Outback Equipment, ServoTerra
- “Non-Electronics” subsidiary companies/divisions
 - ECS Tin/Lead Smelter Operations – Terrell, TX
 - ECS Aircraft Division – De-manufacturing & Precious Metal recovery on jet engines, hydro-metallurgical process – Terrell, TX
 - ECS Photo Division – Silver processing/recovery for photo labs – Dallas, TX

ECS REFINING

Our Plants, Our Process.

Medford, Oregon

Collection Facility | Santa Clara Electronics

- 8,000 square foot leased facility
- Opened in November 2007
- Supplies e-waste to Santa Clara Electronics for processing

Santa Clara, California | Headquarters

Electronics, Asset Management, Resale/Remarketing

Eight leased facilities totaling 292,000 square feet

Stockton, California

Primary California Electronics Processing Facility

- 267,000 square foot owned facility
- Opened in May 2011

Los Angeles, California

Collection Facility | Santa Clara Electronics

- 10,000 square foot leased facility
- Opened in October 2009
- Supplies e-waste to Santa Clara Electronics for processing



Terrell, Texas

Smelter Operations and Aircraft Processing

170,000 square foot owned/leased facility

Mesquite, Texas

Electronics Processing

230,000 square foot owned facility

Recyclers Perspective on Solar PV Waste

- Diversity of Materials, Design & Construction
 - Technology—SIGS, Cad/Tel, Silicon
 - “Built to last”
 - Glass, Adhesives, Metals, Plastics, other
- Costs of Processing & Recycling
 - Capital investment for automated processing
 - Cost of handling various technologies & designs
- Legislation/Regulation as a hazardous waste

CRT Process Analogy

- **CRT/TV de-manufacturing & recycling of the last decade**
 - Complex device
 - Requires separation into commodity materials to recycle/sell safely
 - Portions of glass contain hazardous materials
 - Commodity values do not equal process costs
- **Solar PV waste de-manufacturing & recycling of today**
 - Complex assembly
 - Designed for durability & exposure to the elements, not recyclability
 - Requires separation into commodity materials to recycle/sell safely
 - Portions of glass contain hazardous materials
 - Commodity values do not equal process costs

Automation of the separation process is safer and more cost effective!

What Matters Most.

Decades of Experience

State of The Art Process

Industry Best Practices

Zero Landfill Policy

No Overseas Processing

Customized and Complete Service Offering

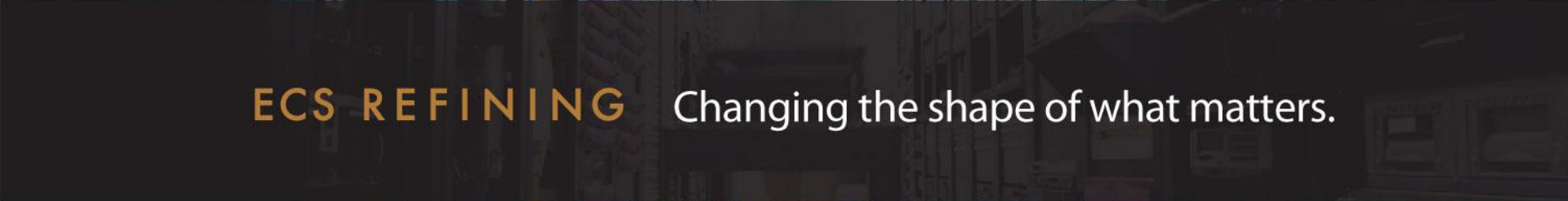
National "Footprint"

Total Transparency and Security



A photograph of a server room with rows of server racks on both sides. A person is visible in the distance, walking down the aisle. The lighting is bright, and the racks are filled with electronic equipment.

Thank You for your time!

A dark, semi-transparent horizontal band that serves as a background for the company name and tagline.

ECS REFINING Changing the shape of what matters.

A photograph of a server room, similar to the one above, but with a person in a yellow protective suit walking down the aisle. The image is slightly blurred, suggesting motion.

Responsible recycling and end of life services for electronics,
industrial equipment and hazardous wastes.

Jim Taggart, Founder & CEO

June 15, 2011