

Radiant Barriers Save Energy in Buildings



Langley Research Center

**RadiaSource
Ogden, Utah**

NASA Technology

- ◆ Langley needed a thin, lightweight, reflective material to use on a satellite to “echo” voice, radio, and television signals from Earth back to the ground
- ◆ The Agency collaborated with private industry to create a new technique for coating materials with an extremely fine mist of vaporized metal particles



Partnership

- ◆ Known as “radiant barrier technology,” it was made available in the public domain, and products across the world started incorporating the technology
- ◆ Entrepreneur Ryan Garrett learned about a new version manufactured by vapor phase encapsulation, a patented process, and founded RadiaSource to share the benefits of the innovation through a unique product offering

Benefits

- ◆ The company produces insulation, garage doors, shipping materials, and water heater wraps
- ◆ A case study demonstrated a home with RadiaSource saved 18–20 percent on energy in the winter and 46 percent in the summer
- ◆ Opportunities exist in warehouses, gymnasiums, large buildings, and agricultural settings