



**A WORLD  
BEYOND  
WASTE**

P.O. BOX 1026 • HUNTINGTON BEACH, CA 92647-1026 • (714) 847-3581 FAX: (714) 841-4660

## **THE RAINBOW EXPERIENCE**

Rainbow Disposal and Recycling (Rainbow) is an employee-owned waste collection, recycling, and transfer company with over fifty years commitment of keeping our communities clean. We have been a leader in the waste management industry since the 1950s, serving the communities of Huntington Beach, Fountain Valley, Westminster, Newport Beach, Costa Mesa and Irvine. In 2008, Rainbow celebrated its 50th anniversary of providing innovative solutions in the waste collection, recycling and reuse industry. We are dedicated to achieving "A World Beyond Waste."

Rainbow works hard to keep our communities clean and healthy by taking actions to improve our environment.

- An early leader in recycling, we constructed our first material recovery facility (MRF) in 1994. This sorting facility helped the cities of Huntington Beach and Fountain Valley to achieve State waste reduction mandates of 50 percent.
- Knowing higher levels of recycling would be required, we constructed two more MRFs to extract additional recyclables from commercial business and apartment waste.
- We also constructed a construction and demolition debris MRF and a green waste processing facility to maximize diversion.
- In 2007, Rainbow converted to a 3 cart automated collection system with a blue cart for recyclables, a green cart for green waste and a brown cart for trash. In tandem with implementing the new automated collection system, we constructed a single stream MRF that separates the bottles, cans and containers from paper and cardboard. This new system has improved the quality of recyclables leading to increased recycling.
- Rainbow has replaced its diesel-powered residential collection vehicles with new, quiet, compressed natural gas (CNG)-powered vehicles that reduce green house gas emissions.
- In 2007, Rainbow joined the California Climate Action Registry. The CCAR serves as a voluntary greenhouse gas (GHG) registry to protect and promote early actions to reduce GHG emissions by organizations. In 2008, Rainbow filed its verified 2007 GHG emissions with CCAR and is working to reduce its carbon footprint.
- Rainbow recycles and composts over 31 different types of material.
- The effect of avoided indirect emissions from Rainbow's recycling, composting and production of biomass energy feedstock are estimated at 138,095 metric tons of carbon dioxide equivalent. This is equivalent to removing almost 30,000 cars from the road for a year.
- In 2009, Rainbow Disposal was named "Climate Action Leader" by the Secretary of the California Environmental Protection Agency.



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## RAINBOW DISPOSAL CONVERSION TECHNOLOGY EXPERIENCE

For over five years Rainbow Disposal Company has been actively involved in research and development of various conversion technologies. These technologies serve dual purposes by helping to address the growing worldwide problem of waste disposal, while utilizing the waste product to generate energy in the form of electricity for the surrounding communities. Our participation has been in the following areas:

- 🌱 *Front End Facility Development* – For certain processes to run efficiently, they must have the correct feedstock. Rainbow knows how to process the waste stream to provide optimal system performance.
- 🌱 *Thermal Conversion Systems* – Rainbow has worked closely over the past five years with several thermal conversion system manufacturers. We processed MSW through their systems, and helped develop the preprocessing and integration of MSW.
- 🌱 *Front End Processing to Prep for CT* – Rainbow Disposal is committed to front end processing, including leveraging our experience with recycling to optimize feedstocks including RDF (Refuse Derived Fuel).
- 🌱 *Anerobic Digestion* – Rainbow Disposal is currently working with several anerobic digestion vendors to bring this technology to commercial status for MSW, in addition to the currently commercially proven installations for biomass.
- 🌱 *Composting* – Rainbow Disposal currently operates a newly commissioned 300 ton per day composting facility in Southern California. This facility takes curbside green waste as well as commercial biomass and composts these materials into finished agricultural products, thereby providing a closed loop solution for green waste processing.