



Industrial Materials Recycling

Managing Resources for Tomorrow

NEARLY EVERY

industrial process, from manufacturing consumer goods, to generating energy, produces many different types of usable materials. These industrial materials can be recycled just like newspapers—both are valuable commodities.

Don't let valuable industrial materials go to waste. Recycle them today!

Why recycle industrial materials?

Recycled industrial materials, such as coal combustion products, foundry sand, and construction and demolition debris, have many of the same properties as the virgin materials they replace. They can even improve the quality of a product. For example, the use of coal fly ash can enhance the strength and durability of concrete. Industrial materials recycling also:

Preserves our natural resources by decreasing the demand for virgin materials.

Conserves energy and reduces greenhouse gas emissions by decreasing the demand for products made from energy-intensive manufacturing processes.

Saves money by decreasing disposal costs for the generator and decreasing the cost of materials for end users.

Industrial materials

Coal Combustion Products

Fly and Bottom Ash
Boiler Slag
Flue Gas Desulfurization Material

Can be recycled in

Portland cement and concrete
Flowable and structural fill
Wallboard

Construction and Demolition Debris

Concrete
Gypsum from drywall
Metals
Bricks
Asphalt from roads and roofing shingles
Wood from buildings

Can be recycled in

Asphalt paving
Concrete
Re-milled lumber
Wallboard

Foundry Sand

Spent sand used in metal casting

Can be recycled in

Road embankments
Flowable and structural fill
Base and sub-base for road construction

Industrial materials recycling in action

University of California, Berkeley, California

The University of California-Berkeley used high-volume fly ash concrete in reinforcing the stability of its two buildings, reducing the use of fossil fuels while saving thousands of dollars.

http://greenbuildings.berkeley.edu/proj_wurster.htm

Denver Stapleton Airport, Denver, Colorado

Recycled Materials Company, Inc. recovered and recycled 6.5 million tons of concrete and asphalt hardscape during the demolition of the former Stapleton International Airport.

www.rmci-usa.com

Cleveland Grand Prix, Cleveland, Ohio

Spent foundry sand has been used to make concrete barriers, including barrier production, for the Cleveland Grand Prix auto race.

Build a sustainable future out of today's industrial materials. Visit:

EPA Industrial Materials Recycling Web page:

www.epa.gov/epaoswer/osw/conserved/priorities/bene-use.htm

American Coal Ash Association, a nonprofit organization promoting the recycling of coal combustion products:

www.acaa-usa.org

Construction Materials Recycling Association, a trade association promoting construction and demolition debris recycling:

www.cdrecycling.org

Foundry Industry Recycling Starts Today, a nonprofit consortium promoting the recycling of spent foundry sand:

www.foundryrecycling.org

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