An aerial photograph of a cement plant situated in a valley. The plant features several tall, cylindrical structures and a complex network of pipes and walkways. The surrounding landscape is dominated by dense green forests and rolling hills. In the background, a range of mountains is visible under a clear sky with a warm, golden glow from the setting or rising sun. The overall scene conveys a sense of industrial activity within a natural environment.

Roanoke Cement Company

Virginia Environmental Excellence Program Participant

Lance Clark

Facts About Cement Industry

World's **3rd largest** CO₂ produced

1 ton CO₂ per 1 ton cement

Over **1 million tons** of raw materials mined each year

410 tons of coal per day

Energy bill **\$1 million** per month

How Do You Define Sustainability?

... **Different** things to **different** people!

DUALISTIC

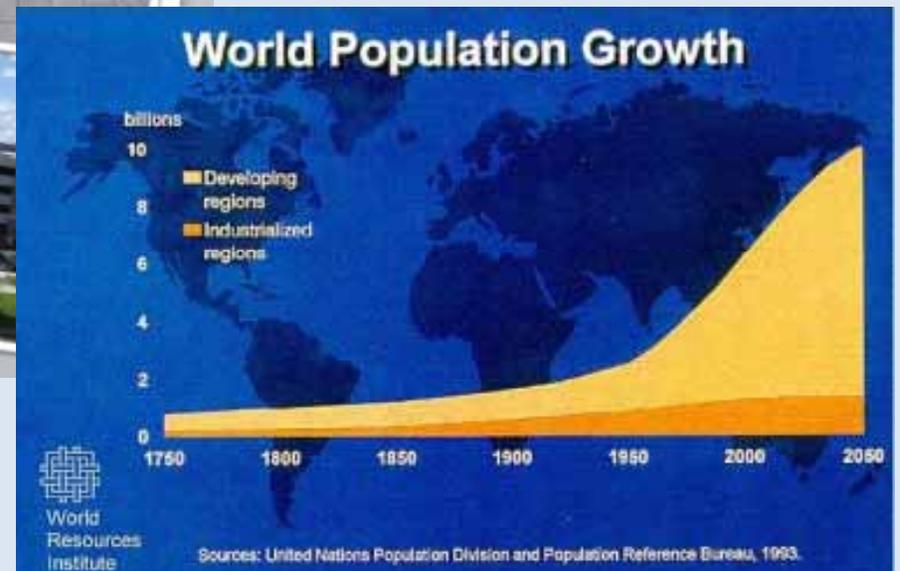


THREE PART SYSTEM

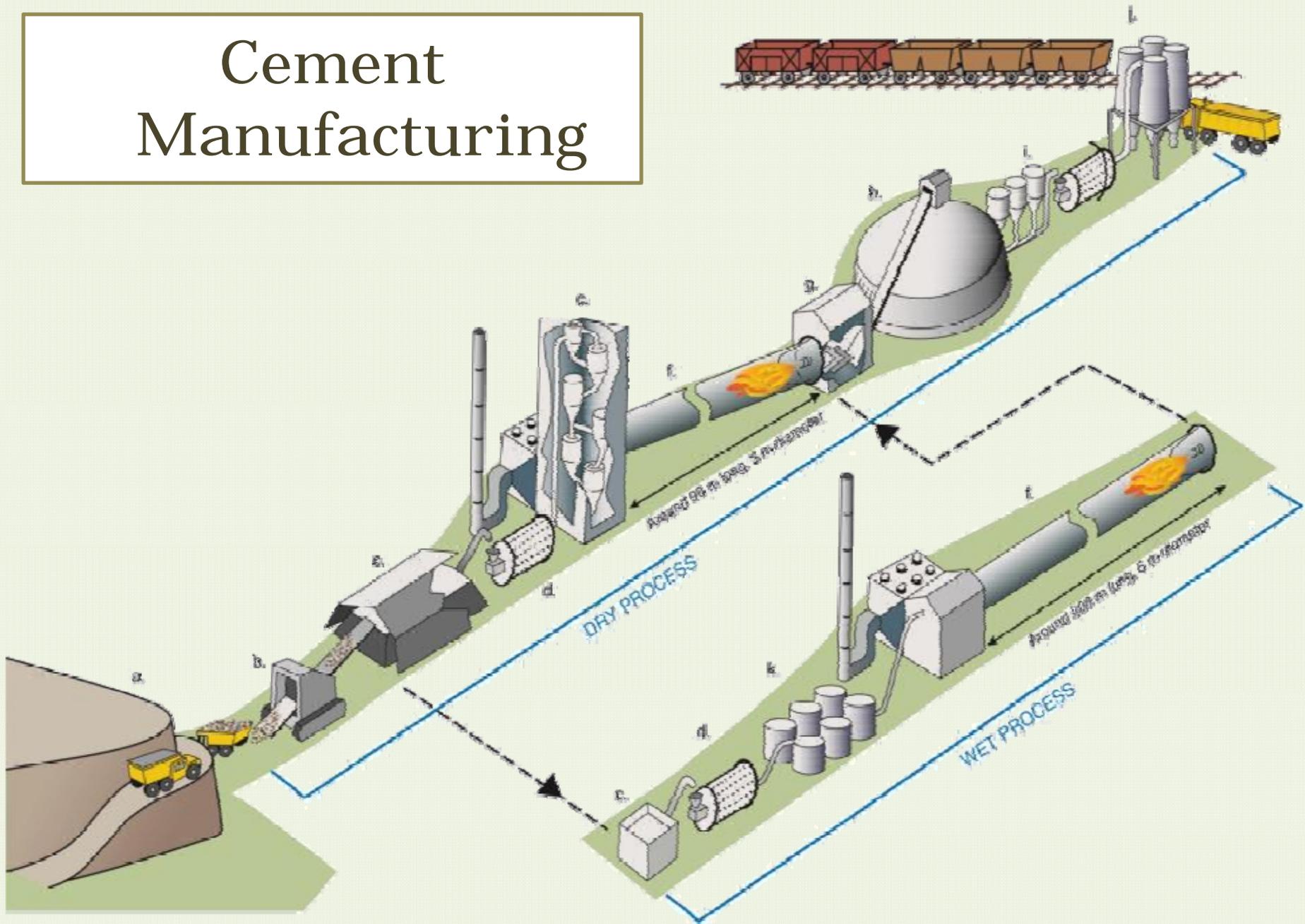
“The ability to meet the needs of today without compromising the needs of tomorrow.”

Simple: Ecosystems and human beings

Cement Demand



Cement Manufacturing



Quarry



Landfill



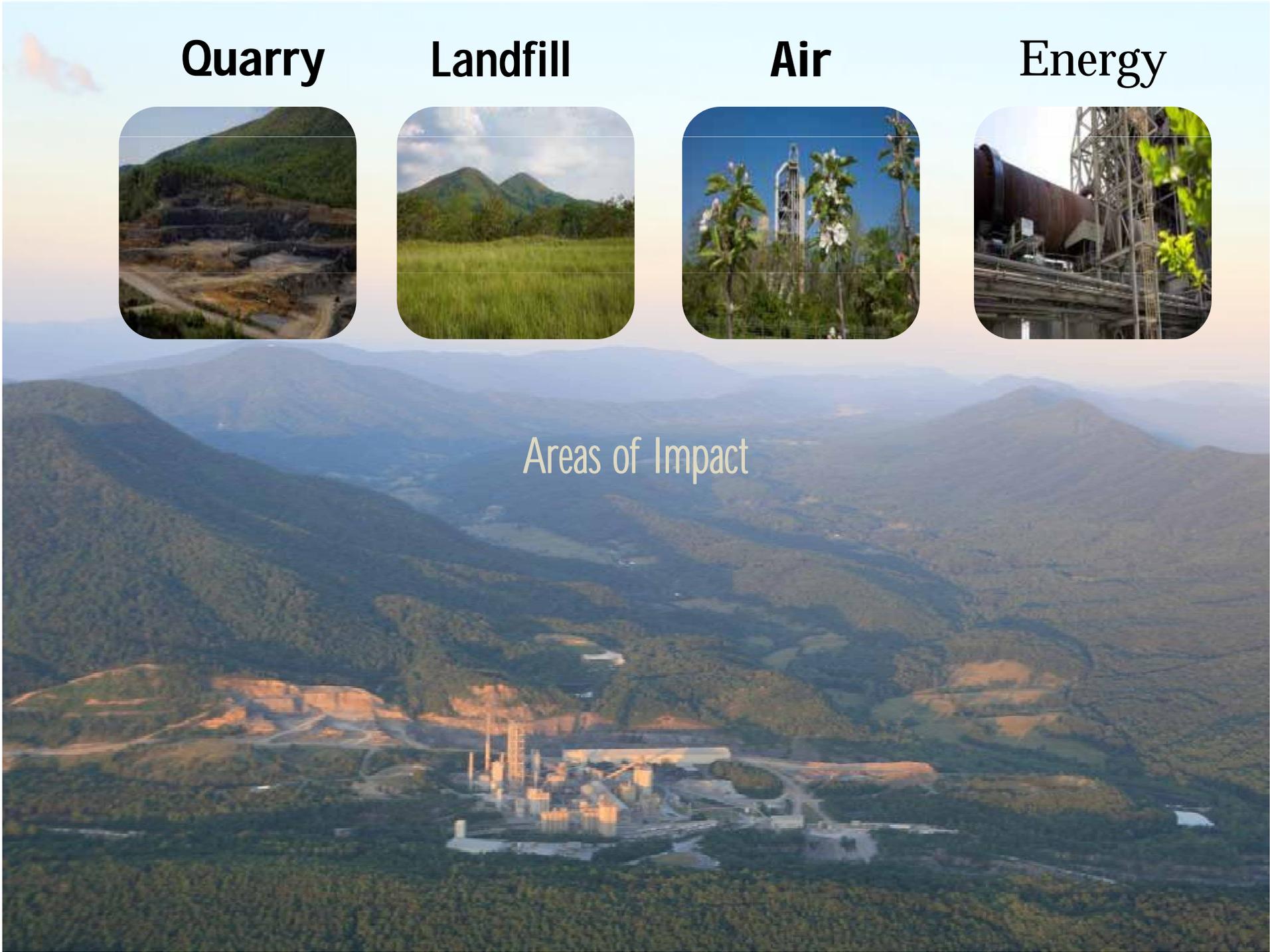
Air



Energy



Areas of Impact



A satellite view of Earth from space, showing the Americas. The image is a high-resolution photograph of the planet, with the curvature of the Earth visible at the top and bottom. The colors are naturalistic, showing green for land, blue for oceans, and white for clouds. The text is overlaid on a white rectangular background in the lower-left quadrant.

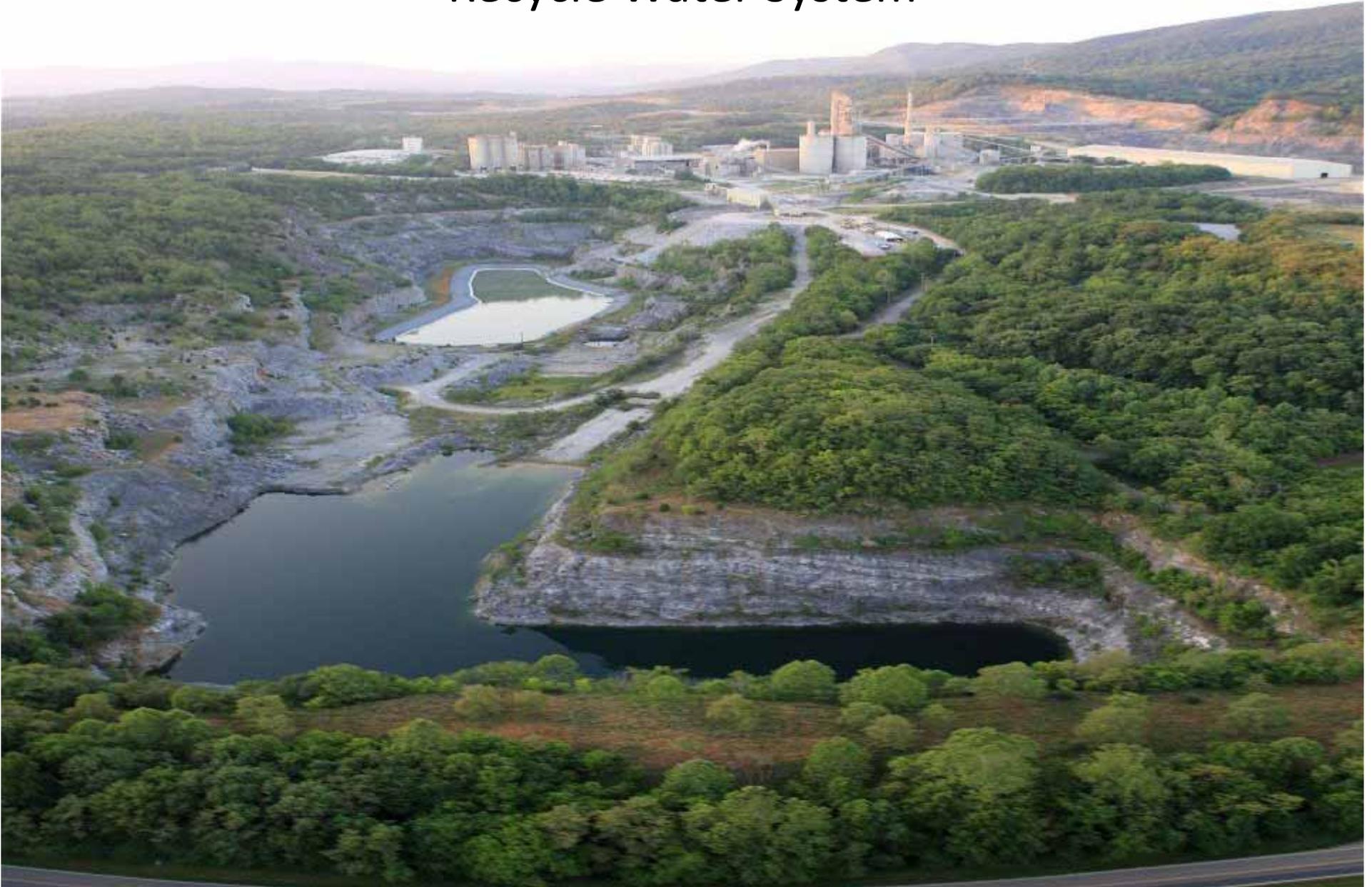
“It’s a voluntary CO₂ led initiative. Each company must demonstrate leadership, commitment, and achievement towards sustainable development and report publicly on its sustainable development performance.”



World Business Council for Sustainable Development

Cement Sustainability Initiative

Recycle Water System





Free energy audit to help Glenvar Elementary School cut costs

An audit team praised Glenvar Elementary School's conservation efforts already in place.

By Courtney Cutright
981-3345



Photos by Kyle Green | The Roanoke Times

Ten-year-old Jamie Burton said she thinks a million dollars is a lot of money. The Glenvar Elementary School fifth-grader guessed that's how much Roanoke County schools spends annually on electricity, gas and water.

Director of Operations Marty Misicko said the school division actually spends closer to \$2 million per year on utilities.

"If you can save just a little bit ... 10 percent even, that would be \$200,000," Steve Sunderman, a Roanoke architect, told a small group of Glenvar students Monday morning.

Stephen Knox, with Roanoke Cement Co., uses a light meter to record foot-candles of light inside a classroom at Glenvar Elementary School during an energy audit at the school Monday. The audit was free to the school because of its involvement in the Green Schools Challenge.

Roanoke Cement lauded for energy efficiency

[RP news wires](#)

Tags: [energy management](#), [green manufacturing](#)



Roanoke Cement Company was honored last week as a result of environmental manager Lance Clark's submission to the 2010 Annual Cement Industry Energy and Environmental Awards. This is the third year in a row RCC has received recognition in this event. Clark's submission was a finalist in the Outreach Award Category and a runner-up in the Energy Efficiency Category. The awards were presented by the Portland



[« Previous](#)

[Next »](#)

Roanoke Cement Company earns Energy Star certification for 7th straight year

Roanoke Cement Company (RCC), founded in 1950 and acquired by Titan America in 1992, has been a longstanding member of the Catawba Valley community. Located between the Appalachian Mountains and Jefferson National Forest, Roanoke Cement is privy to the energy-intensive nature of its industry and works assiduously to minimize its carbon footprint.

As a result of these efforts, Roanoke Cement is pleased to announce that we have earned the U.S. Environmental Protection Agency's ENERGY STAR certification for the 7th consecutive year. The ENERGY STAR certification signifies that our industrial facility performs in the top 25 percent of similar facilities nationwide for energy efficiency and meets strict energy efficiency performance levels set by the EPA.

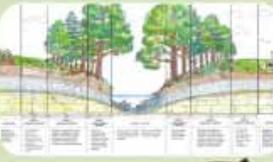
"It is rewarding to know that small adjustments in air pressure, for example, can result in

Stream Mitigation Project

Riparian Buffer Area ROANOKECEMENT

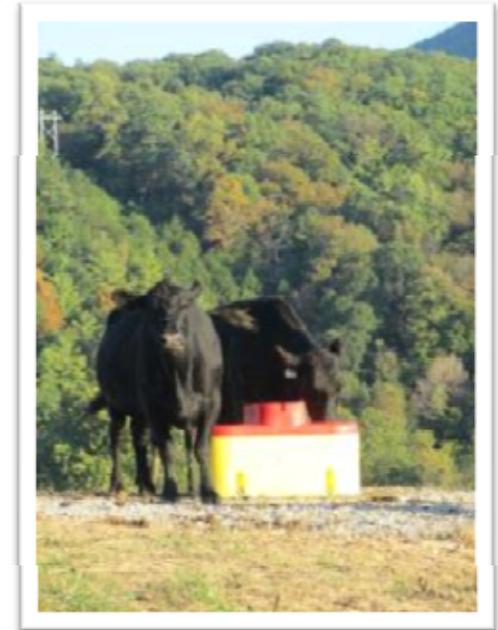
Roanoke Cement Company's Farm Site

Like many farms in the area, Roanoke Cement Company's Farm Site is surrounded by a forest. This forest provides a natural barrier to prevent runoff from the surrounding forest from entering the stream. The forest also provides a natural barrier to prevent runoff from the surrounding forest from entering the stream. The forest also provides a natural barrier to prevent runoff from the surrounding forest from entering the stream.



Why Are Riparian Buffers Important?

Riparian buffers trap sediment and reduce runoff and erosion. Riparian buffers also trap nutrients that get into the stream, preventing them from being taken up by plants and animals. Riparian buffers also trap nutrients that get into the stream, preventing them from being taken up by plants and animals. Riparian buffers also trap nutrients that get into the stream, preventing them from being taken up by plants and animals.



Limestone Lake Restoration



PLEASE JOIN US

Kid's Fishing Day

July 15th
8:00am - 12:00pm



TROUT POND HABITAT

The pond and immediate riparian zone is being restored to support native trout. The work includes adding trout habitat and creating a riparian buffer to improve water quality.

BROWN TROUT

Brown trout are native to the pond and are a popular sport fish. They are found in the pond and are a popular sport fish. They are found in the pond and are a popular sport fish.

BROWN TROUT

Brown trout are native to the pond and are a popular sport fish. They are found in the pond and are a popular sport fish. They are found in the pond and are a popular sport fish.

RAINBOW TROUT

Rainbow trout are native to the pond and are a popular sport fish. They are found in the pond and are a popular sport fish. They are found in the pond and are a popular sport fish.

WHAT DO TROUT EAT?

TROUT eat a variety of food items including insects, algae, and small aquatic animals. They are found in the pond and are a popular sport fish.

INDICATORS OF ENVIRONMENTAL QUALITY

TROUT are sensitive to changes in water quality and are used as indicators of environmental quality. They are found in the pond and are a popular sport fish.

RAINBOW TROUT

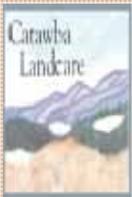
Rainbow trout are native to the pond and are a popular sport fish. They are found in the pond and are a popular sport fish. They are found in the pond and are a popular sport fish.

LIFE CYCLE

TROUT have a life cycle that includes spawning, hatching, and growing. They are found in the pond and are a popular sport fish.



Catawba Creek Improvements



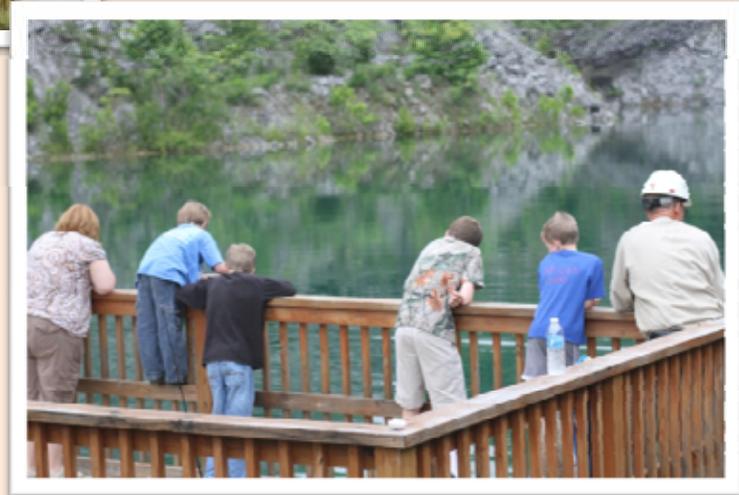
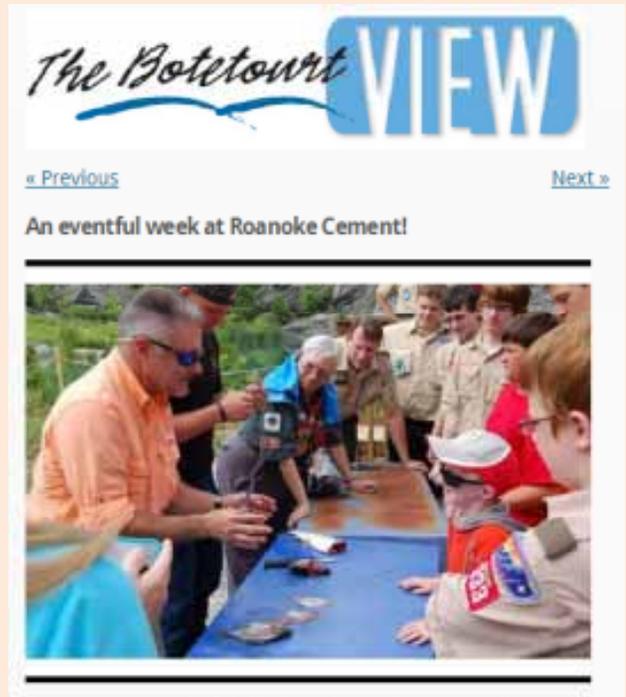
Catawba Landcare
NEIGHBORS IMPROVING OUR VALLEYS



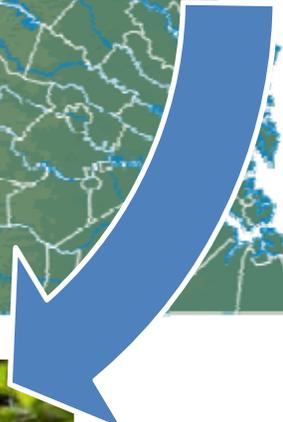
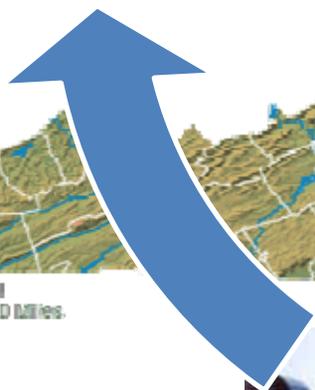
**Sustainable
CATAWBA**

ROANOKECEMENT™
A SPANIX AMERICA COMPANY

Community Outreach







Sustainability is...



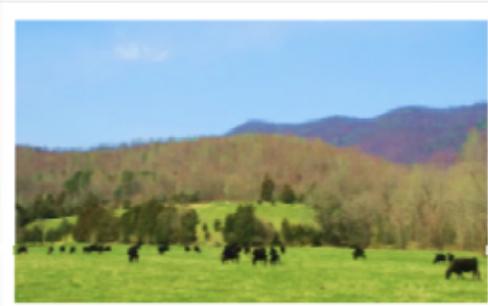
The foundation of our homes, bridges and schools...

**built on the values of
corporate social responsibility.**

*3 wildlife habitats
featuring 6 bee
hives*



*Over 100 student visitors
to the plant*



*2,000 tons of trash removed
from Catawba's waterways*



*16,000+ trees and shrubs along
Catawba Creek*



Thank You