

Holcim Ste. Genevieve Plant

Commitment to Sustainable Development

LEED Certified Office/Warehouse Building





Who is Holcim?

- Holcim Ltd
 - ▶ One of world's leading suppliers of cement and aggregates.
 - ▶ Ownership in over 70 countries on all continents
 - ▶ Employees of 90,000 people world-wide.

Holcim (US) Inc.

- Holcim (US) Inc. is a subsidiary Holcim Ltd.
 - ▶ Approximately 2,200 employees at 10 manufacturing plants and 70 distribution centers.



December 28 2008
Holcim

Holcim Ste. Genevieve Plant

- World's largest producing single-line kiln system
 - ▶ 4,000,000 metric tons of cement annually
 - ▶ 12,000 tons of clinker daily
- Transportation includes a slack-water harbor on the Mississippi River, rail, and truck.

Holcim Ste. Genevieve Plant

- World Class
 - ▶ Safety
 - ▶ Production (quantity and quality)
 - ▶ Environmental controls and mitigation



View of the
Wetlands



Holcim (US) Inc.

Holcim Commitment to Sustainable Development

- Corporate Departments

- Climate Change – tracking climate change impact and improvements.
- Environment – benchmarking methods and technology for environmental controls.
- Alternative Resources – Minimizing the use of raw materials and fuels
- Environmental Relations – NGO cooperation on biodiversity, ecosystems, and conservation
- Corporate Social Responsibility and Sustainable Development

Sustainable Development

- Meeting the needs of the present without compromising the ability of future generations to meet their own needs.

At Holcim Ste. Genevieve

Our **Strength** is our **People**

Our **Performance** ensures we deliver our **Commitments** to our **Families, Customers, Community, and Company**

Our **Passion** is to **Work Safely** and **Be the Best**

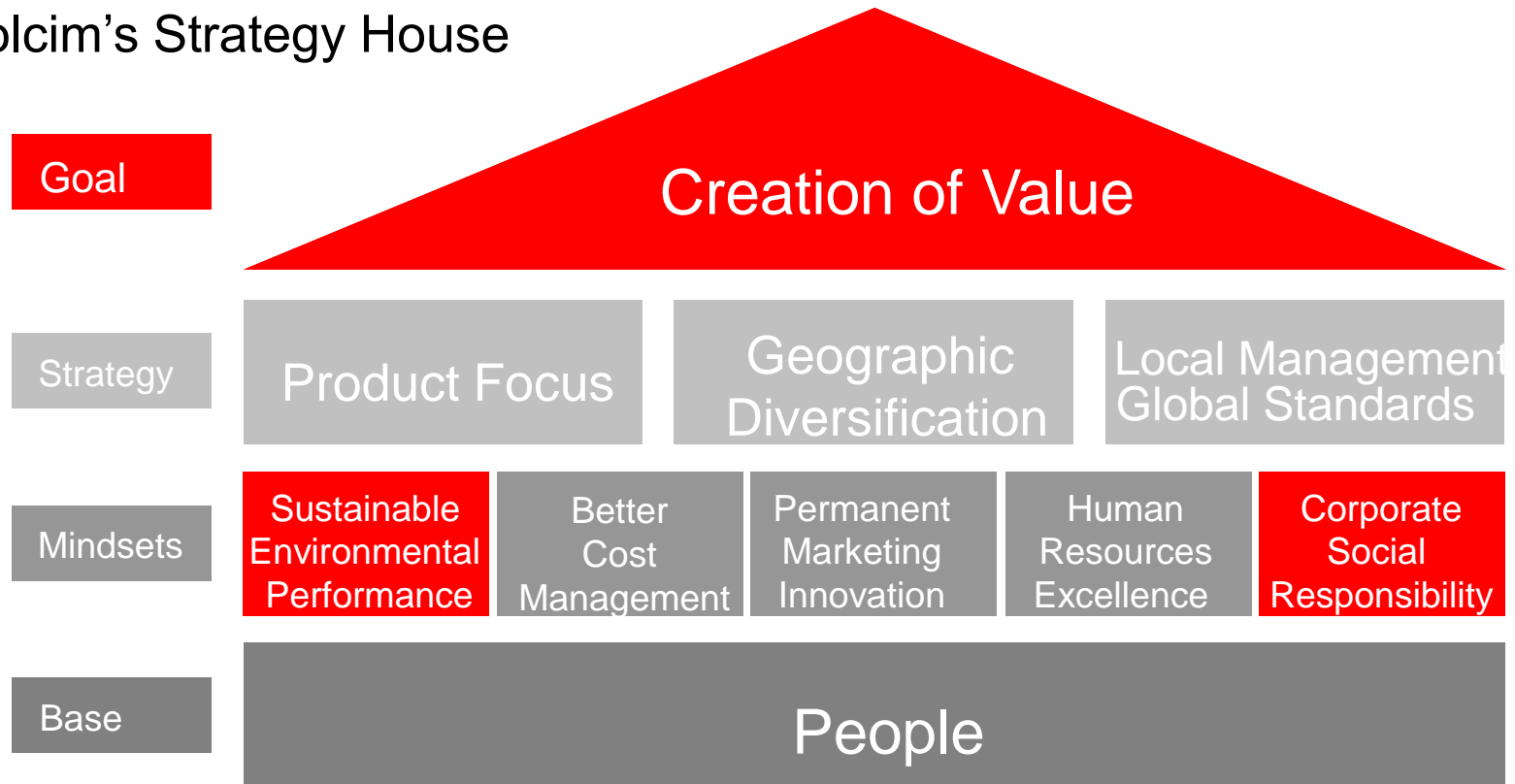
We Believe

- Our People make the difference.
- Teamwork is embodied in mutual respect, open, honest, and direct communications, and our “can do” attitude.
- Learning and communication enable us to make informed decisions and improve operations.
- In safe behavior and a clean and environmentally sound workplace.
- In manufacturing and delivering a consistent quality product.
- In honoring our commitments.



Our Commitment to Sustainable Development is embedded and has been recognized

Holcim's Strategy House



- Honoring Commitments
 - ▶ Dow Jones Sustainability Index – Leader of the Industry for 4 straight years.
 - ▶ World Business Council on Sustainable Development (chair - Energy and Climate Work Group)
 - ▶ EPA Climate Leaders Program (Charter Member)
 - ▶ Partner with IUCN (International Union of for Conservation of Nature) on international biodiversity issues

Holcim Ste. Genevieve

- How are these programs, initiatives and commitments implemented on the local level?
 - ▶ Very stringent emission limitations.
 - State of the art emission control technology
 - ▶ Wetland mitigation
 - 61 acres of wetland habitat mitigation in response to disturbance of 14 acres to construct the plant
 - ▶ Archaeological Resource Recovery
 - Collection, interpretation and archival of several thousand artifacts
 - ▶ Conservation
 - Protection of over 2000 acres in a conservation easement, including tall grass prairie and dolomite glade restoration projects.

Holcim Ste. Genevieve – Office LEED Certification

LEED

“Leadership in Energy and Environmental Design”

Program of the US Green Building Council to encourage and facilitate the development of more sustainable buildings.

Holcim Ste. Genevieve – Office LEED Certification

The Korte Company
Highland, Illinois

Our Partner in planning, designing and implementing the
Office/Warehouse Building

Holcim Ste. Genevieve – Office LEED Certification

- LEED Certification rates the building design in five categories
 - ▶ Sustainable Sites
 - ▶ Water Efficiency
 - ▶ Energy and Atmosphere
 - ▶ Materials and Resources
 - ▶ Indoor Environmental Quality

Holcim Ste. Genevieve – Office LEED Certification

- Prerequisites
 - ▶ Certain basic design elements are assumed (ie local codes). Without the basics, no certification will be issued.
- Based on design, applicant applies for credits under the LEED credit requirements.
- LEED Ratings
 - ▶ Certified 26-32 points
 - ▶ Silver Rating 33-38 points
 - ▶ Gold Rating 39-51 points
 - ▶ Platinum Rating 52 + points

Holcim Ste. Genevieve – Office LEED Certification

- Sustainable Sites
 - ▶ 1 point Site Selection
 - ▶ 1 point Alternative Transportation: bicycles
 - ▶ 1 point Alternative Transportation: FE vehicles
 - ▶ 1 point Parking Capacity
 - ▶ 2 points Heat Island affect

Holcim Ste. Genevieve – Office LEED Certification

- Water Efficiency
 - ▶ 2 points Water efficient landscaping
 - ▶ 2 points Water use reduction

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- Energy and Atmosphere
 - ▶ 3 points Optimize energy performance
 - ▶ 1 point Enhanced commissioning (assures that installations are tuned and running at optimum efficiency).
 - ▶ 1 point Enhanced refrigerant management

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- Materials and Resources
 - ▶ 1 point Construction waste management
 - ▶ 2 points Recycled content
 - ▶ 2 points Regional materials.

Holcim Ste. Genevieve – Office LEED Certification

- Indoor Environmental Quality
 - ▶ 1 point Permanent CO2 monitoring system providing ventilation system feedback.
 - ▶ 1 point Ventilation exceeds minimum Code requirement by 30%
 - ▶ 4 points Low-emitting adhesives and sealants, paints and coatings, carpet systems, composite wood and agrifiber
 - ▶ 1 point Controllability of lighting systems.

Holcim Ste. Genevieve – Office LEED Certification

- Innovation and Design
 - ▶ 1 point Exemplary water reduction strategy (54% reduction from normal systems)
 - ▶ 1 point Heat island affect reduction with 100% concrete paving in parking lots and roads.
 - ▶ 1 point LEED accredited professional participated on project development team.

Holcim Ste. Genevieve – Office LEED Certification

- Office/warehouse complex
 - ▶ 69,750 sq.ft., 2-story building
- Resources for LEED Certification
 - ▶ LEED accredited professional as a member of the design team.
 - ▶ Administration of LEED design program, including documentation of LEED points.
 - ▶ Costs over “normal” construction to meet LEED certification criteria.
- LEED Costs were approximately 5% of the total cost of the building.