



2030

Role of Concrete in Sustainable Development

Building for tomorrow



INTERNATIONAL URBAN SUSTAINABILITY &
GREEN BUILDING CONFERENCE 2017



LafargeHolcim

Introduction

As LafargeHolcim, we want to:



Lead in sustainability and set new standards



Transform the way our industry works and encourage the whole construction sector to play its part in addressing our planet's biggest issues



Make a **positive difference** because we have both the opportunity and responsibility

The 2030 Plan

CLIMATE



CIRCULAR
ECONOMY



WATER &
NATURE

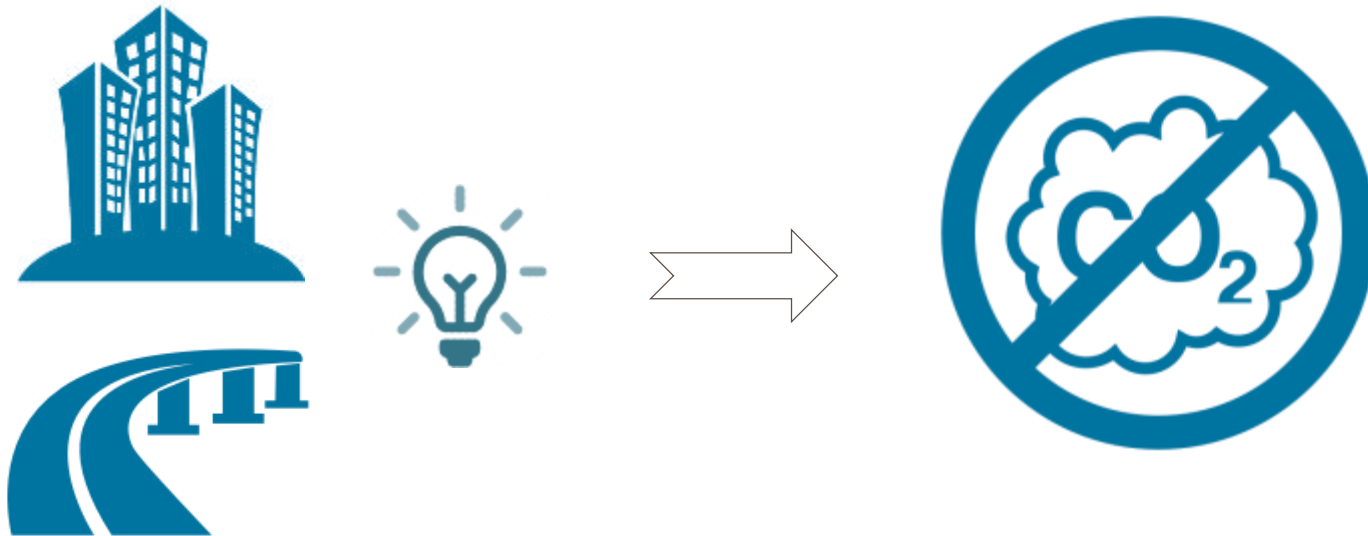


PEOPLE &
COMMUNITIES



Climate: LafargeHolcim ambition

CLIMATE



LafargeHolcim will continue its mission to cut its net CO₂ emissions per ton of cement and will help its customers avoid CO₂ emissions released from buildings and infrastructure over the whole lifecycle through its portfolio of sustainable products and services



Climate: LafargeHolcim ambition

- Produce **40% less net CO2 per ton** of cement than we did in 1990
- Help our customers **avoid 10 million tons of CO2** released every year from their buildings and infrastructure by using our innovative solutions.
 - Low-carbon cement & concrete
 - Insulating concrete
 - Thermal mass solutions
 - Resilience of communities



Example:

- OPC Cement
 - 95 % Clinker
- Composite Cement
 - Lower Clinker Content than OPC
 - Improved durability
 - Utilization (conversion) of Waste materials

Circular Economy: LafargeHolcim ambition

CIRCULAR
ECONOMY



LafargeHolcim will create more value from waste by transforming it into resources for all our production processes – providing sustainable waste treatment solutions. In urban areas, we will develop the use of construction and demolition waste to produce recycled aggregates



Circular Economy: LafargeHolcim ambition

- **Use 80 million tons / year** of resources made from waste in our operations.
 - Use of alternative raw materials
 - Waste management services
 - Partnerships to source biomass residues from agriculture and forestry
- **Multiply by 4** our volume of recycled aggregates from construction and demolition waste and reclaimed asphalt paving.
 - Recycled building materials
 - Mobile recycling solutions



Example:

- Common Waste
 - Deposited as landfill – risk of contamination
 - Burned without heat utilization
- Alternative Fuel for Cement reduction
 - Utilization of waste calorific value
 - Fossil fuel reduction
 - No need for community landfill

Water & Nature: LafargeHolcim ambition

WATER &
NATURE



Save freshwater in all business lines and give more water to communities and nature than we withdraw in water-scarce areas



Deliver a global positive change on biodiversity in our mining sites



Provide appropriate hygiene conditions of all workers on our sites



Water & Nature: LafargeHolcim ambition

- Reduce by 30% the amount of freshwater we withdraw to produce each ton of cement.
- Give more water than we withdraw in areas where it's scarce.
- Ensure access to safe water, sanitation and hygiene to all our employees and contractors on all our operational sites.
- Demonstrate a positive change for biodiversity





Example:

- **Basic Concrete without Admixture**
 - Average need for 200 l/m³
- **Optimized Concrete mix design**
 - Water reduction up to 30 %

People & Communities: LafargeHolcim ambition

PEOPLE &
COMMUNITIES



Further develop and deploy affordable housing solutions, targeting at the base of the social pyramid



Provide inclusive business models, education and health programs to support local communities' economic and social development



Take a stand against corruption and bribery



Promote and deploy responsible and sustainable business practices throughout our value chain. In particular, we will act for the universal respect of human rights



Champion diversity in our sector



Put health and safety at the center of everything we do

People & Communities: LafargeHolcim ambition

PEOPLE &
COMMUNITIES



Innovative solution improving comfort of living and sustainability

AIRIUM

- fully mineral thermal insulation technology
- safe
- green
- durable
- affordable insulation alternative to traditional insulation



ACC GOLD

- water repellent property
- less deterioration
- longer service life





Innovative solution improving comfort of living and sustainability

SPEEDCRETE

- ultrafast road repair solution
- reduction of traffic congestions
- reduction of car emissions
- one stop solution by LafargeHolcim

