

Geocycle : Pursuing sustainable development

Barbery Olivier



***"We do not inherit the earth from our parents,
we borrow it from our children."***

Antoine de Saint-Exupéry 1900-1944



A member of the Holcim Group

Geocycle s.a. member of Holcim Belgium

- Origin:
 - Geo : The Hearth
 - Cycle : Life Cyclus
- 100 % daughter Company of Holcim Belgium
- Management and pre-processing of Alternative Fuels for the cement industry.
- Creation
 - Company: 1988
 - Plant in Seneffe (Belgium) : 1991
- Management of 374 kt of waste in 2009 which 120 kt were treated in Seneffe.
- Workforce : 50
- Turnover : 25 mios €
- Certification ISO 9001, ISO 14001, OHSAS 18001 et ISO 17025



Holcim in a snapshot

- Holcim is one of the world's leading suppliers of cement, aggregates, concrete and asphalt including services
- Global group with operations on all continents in over 70 countries
- As of per year ending 31 December 2008, Holcim had
 - Net sales of CHF 25.2 billion
 - Operating EBITDA of CHF 5.3 billion
 - Cash flow from operating activities of CHF 3.7 billion
 - About 85,000 employees



Holcim Belgium – part of the Holcim Group

- Key figures for 2009 :
 - Turnover : 288 million €
 - Volumes of sales:
 - Cement : 2 millions tons
 - Aggregates : 7 millions tons
 - Readymix concrete: 1,3 millions m³
 - Workforce :1.060



Sustainable Development: A part of our mission

Vision: We want to provide foundations for society's future.

Mission: We want to be the world's most respected and attractive company in our industry – creating value for all our stakeholders.

Holcim Strategy House: Working within the triple bottom line



Commitment across the Group

- There are “compelling commercial reasons” for building SD into business strategy.
- Improving our SD performance will add value to our business and is a key factor in maintaining our “licence to operate”
- The current global economic turmoil presents many challenges, but also provides an opportunity to leverage the competitive advantage that comes from our commitment to environmental and social responsibility
- Our SD performance is widely recognized –
 - Awards won by Group companies are evidence of this commitment
 - Leader of the industry in the DJSI for the 5th year running



Building a sustainable future

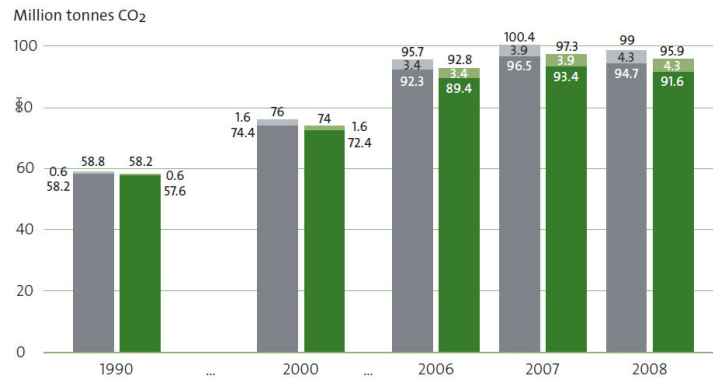
- Worldwide, buildings account for up to 40% of primary energy consumption and 33% of CO2 emissions
- *The manufacture of cement remains a resource- and energy-intensive process*
- *Promoting sustainable building practices and cutting edge approaches to reducing CO2 emissions in cement production are key to building a sustainable future*



Successfully reducing CO₂ emissions

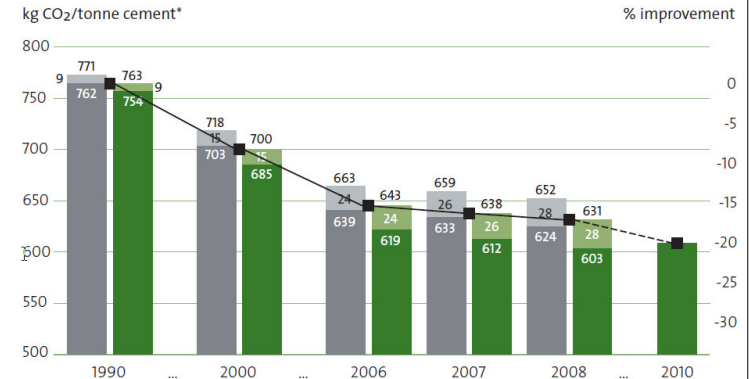
Since 1990:

- 100% increase of our total cement production – absolute CO₂ emissions increased by only 65%. From 2007 to 2008 Group absolute net CO₂ emissions decreased 1.4 %.
- 17.3% reduction in net CO₂ emissions per tonne cementitious material
- Excluding CO₂ emissions from on-site power generation, voluntary target of 20% reduction per tonne by 2010 reached two years ahead of time



Absolute gross CO₂ emissions
 ■ Without power generation
 ■ Emissions of on-site power generation

Absolute net CO₂ emissions
 ■ Without power generation
 ■ Emissions of on-site power generation



Specific gross CO₂ emissions
 ■ Without power generation
 ■ Emissions of on-site power generation

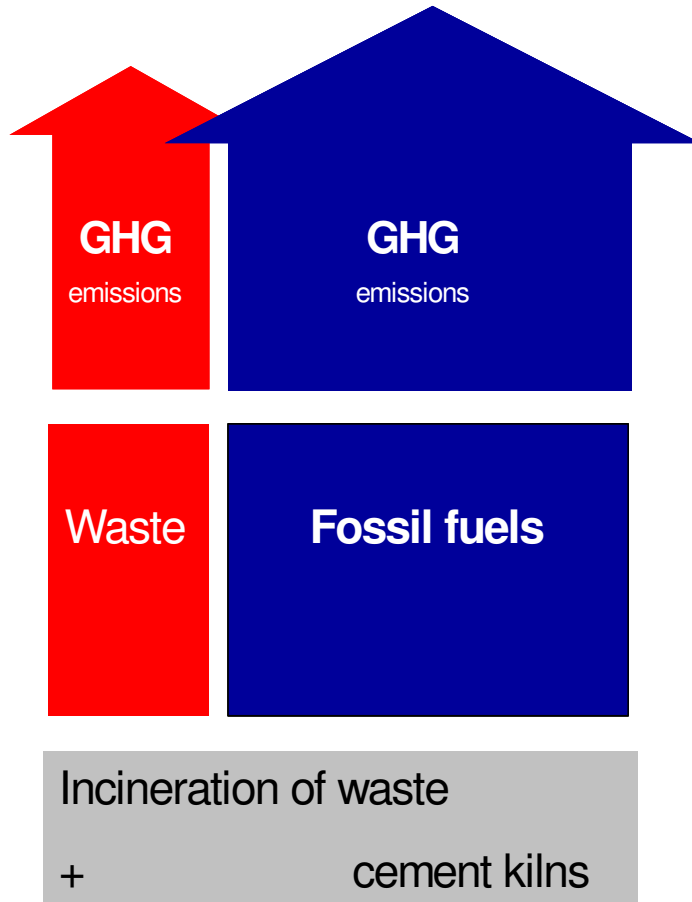
Specific net CO₂ emissions
 ■ Without power generation
 ■ Emissions of on-site power generation

*Cement includes all cement products including secondary materials such as blast furnace slag and fly ash.

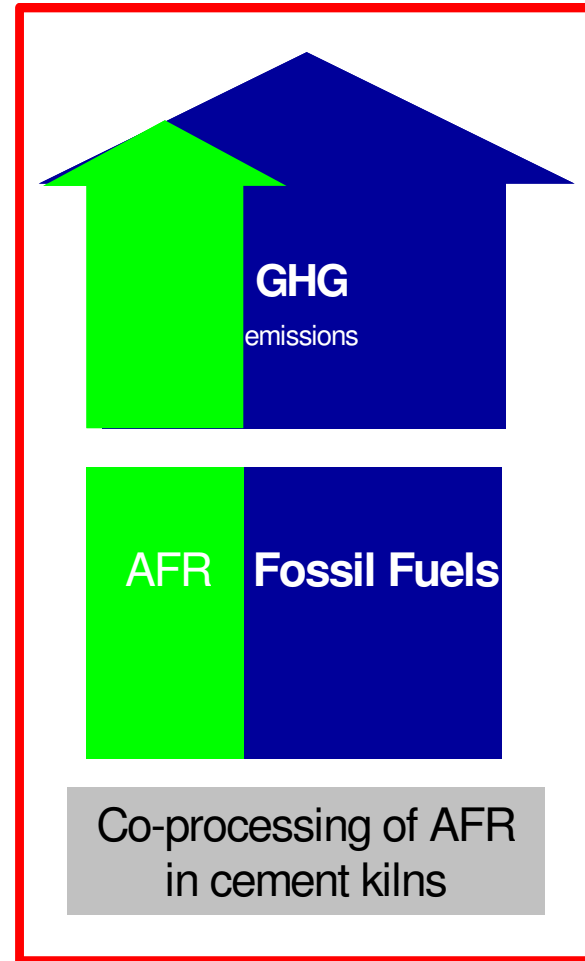


Recovery of Waste and Minimizing of greenhouse Gaz

Conventional Approach



Integrated approach



In Belgium Holcim is fully committed to the sustainable development.

- The Alternative Fuels derived from waste are an important Energy Source. Geocycle in Belgium is a worldwide leader in the development of AFR.
- Eco efficient products are developed : in Belgium, Holcim develop the CEMROC[®], a “cement minimal CO₂ content”.
- Holcim intends to become leader in the transfer from road deliveries into train and shipment deliveries.



Why was it important to also look at the small CO₂ Emission?

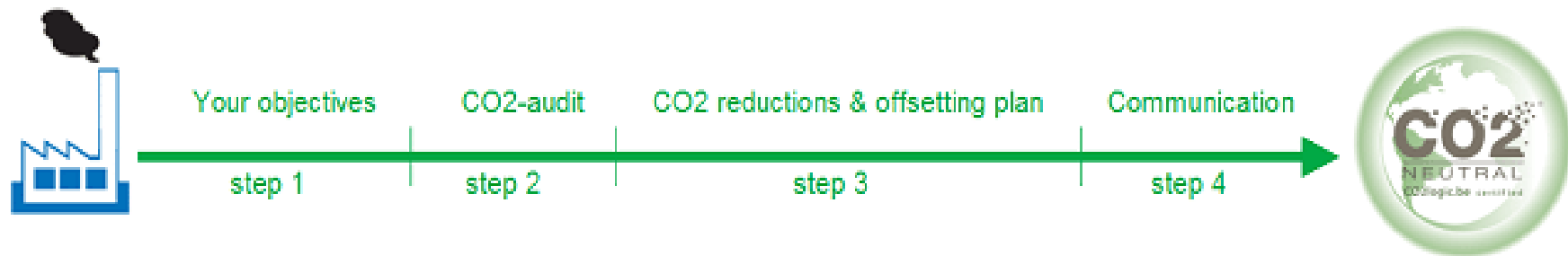
- The sustainable development is fully integrated in our mindset.
- We have to look also at the “small” CO₂ emissions.
- We have to accelerate the learning curve and the awareness of our employees – the CO₂ reduction is related to change of behavior.
- In the future, our customer will ask for it, it's better to be ready and learn quickly.



Reduction of the CO₂ footprint in Seneffe (1/4)

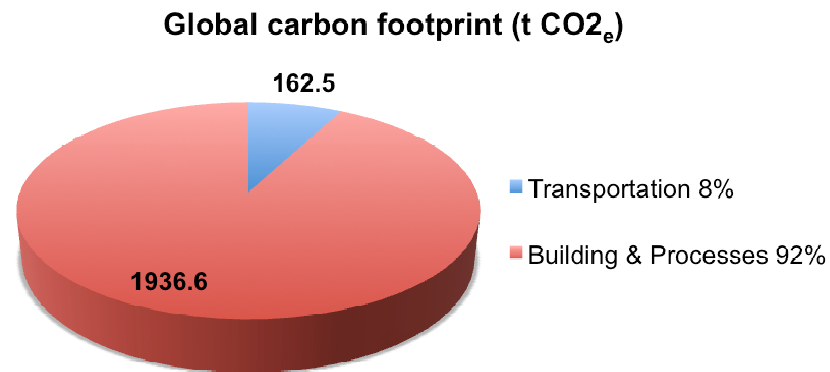
- We were accompanied by the company
- The methodology is the following

cologic



Reduction of the CO₂ footprint in Seneffe(2/4)

- We started in 2008 based on the 2007 energy consumption figures.
- The start point was:



2 107 t CO₂eq



Reduction of the CO₂ foot print in Seneffe(3/4)

- Three steps approach in 2008 and 2009 to:
 1. Reduce the energy consumption (electricity and fuel-oil)
 2. Replace the fossil energy by green energy (green electricity)
 3. Finally complete by an offsetting plan if necessary.
- By implementing this approach, we got the following result in 2009:
 - 1005,4 t of CO₂eq
 - A reduction of 52 % Vs 2007



Reduction of the CO₂ footprint in Seneffe (4/4)

- This result was achieved with the full commitment of our employees.
- Some operational measures taken to get that figure:
 - Optimization of the use of the VOC treatment unit . This unit is used only when necessary and at the right temperature → reduction of 30% of the fuel-oil consumption.
 - Optimization of the lights on the plant.
 - Stop of the installation in charge → immediately efficient: gain of 10 %
 - Setting of the heating and cooling system under regulation.
 - Use of tel conferences
 - Etc...



Strength – Performance - Passion



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