

Cement Production in Ireland 2016

INVESTMENT

€500 MILLION

INVESTED IN MODERN PLANT SINCE 2000



MODERN DRY PRODUCTION FACILITIES

4 cement kilns on the Island using BAT dry process clinker manufacturing. Energy efficient mills require 30% less electricity putting Ireland ahead of the EU average

MARKETS

40%

EXPORTED TO THE UK AND EUROPE



DOMESTIC AND EXPORT MARKETS

Through cost efficient operations and flexible work practices the industry has secured and grown these vital export markets

JOB



2,000 PEOPLE EMPLOYED

Chemical, mechanical, electrical, process and environmental engineers are essential to operate cement manufacturing facilities

FUELS

>34% OF THE FOSSIL FUELS HAVE BEEN REPLACED

FOSSIL FUEL REPLACEMENT

Since 2008 there has been steady progress replacing imported fossil fuels with 'ready-to-use' fuels produced from local residual waste materials. Long-term target is >85%

ALTERNATIVE FUELS



1 TONNE OF CO₂ SAVED FOR EVERY TONNE OF SRF OR TYRES USED TO REPLACE FOSSIL FUELS

Source: Prognos Report, 2008
Resource savings and CO₂ reduction potential in waste management in Europe and the possible contribution to the CO₂ reduction target in 2020

CARBON

EACH BAG HAS A

20%↓

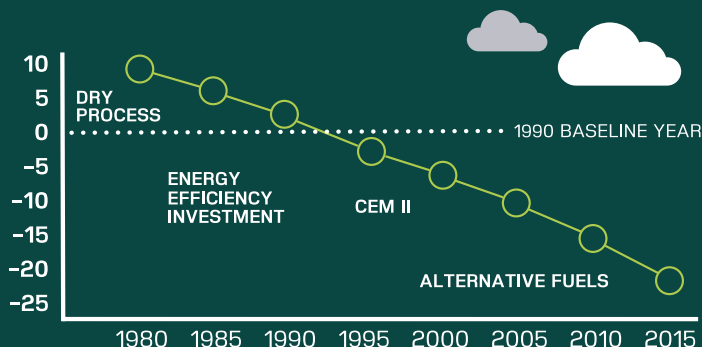
LOWER CARBON FOOTPRINT



CONTINUOUS REDUCTION IN CARBON EMISSIONS DUE TO;

- ongoing investment
- further fossil fuel replacement
- increasing clinker substitution

CARBON REDUCTION



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CEMENT PRODUCTION

RAW MATERIAL PREPARATION

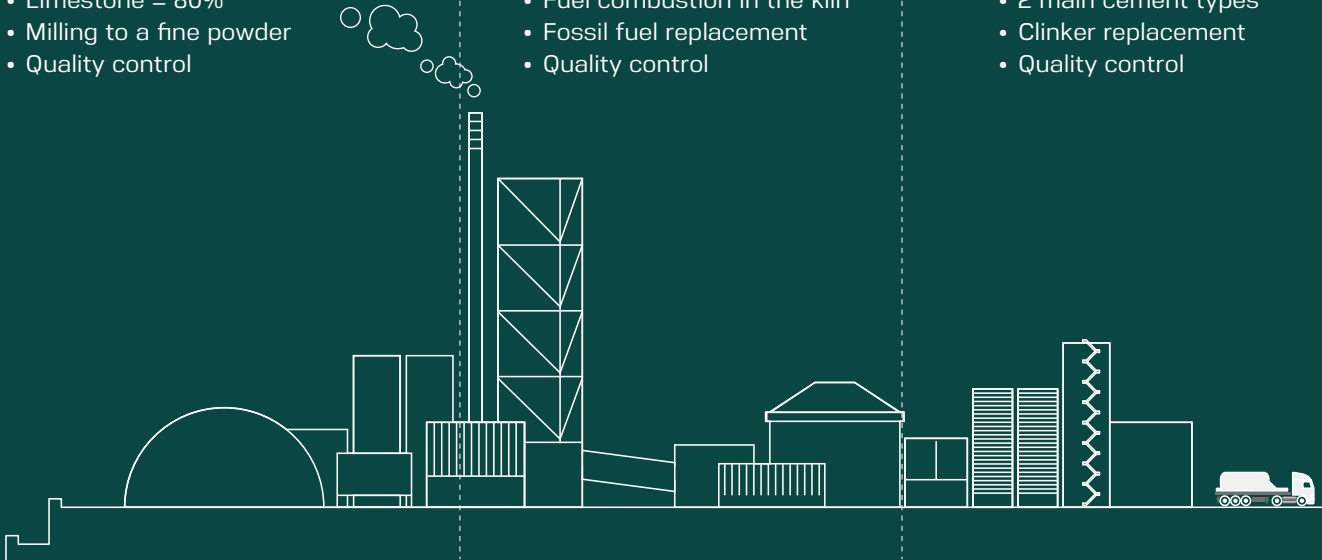
- Quarry - local materials
- Limestone = 80%
- Milling to a fine powder
- Quality control

CLINKER PRODUCTION

- High temperature >1450°C
- Fuel combustion in the kiln
- Fossil fuel replacement
- Quality control

CEMENT MILLING

- Energy efficient mills
- 2 main cement types
- Clinker replacement
- Quality control



PRODUCTS

ECO-EFFICIENT CEM II CEMENTS

Since 2006, Eco-efficient CEM II cements have been manufactured using local raw materials and now represent more than 80% of cement sales in Ireland.

CERTIFICATION

Independent International Verification
 ISO 9001 – Quality
 ISO 14000 – Environmental
 BES 6001 – Responsible Sourcing



CONCRETE

STRONG, SAFE, SUSTAINABLE

Concrete – 2nd most used substance on the planet after water

Circular Economy

- Local materials
- Durable, resilient
- 100% recyclable

Comfortable, affordable housing

- Thermal mass
- Fire resistance
- Security

