

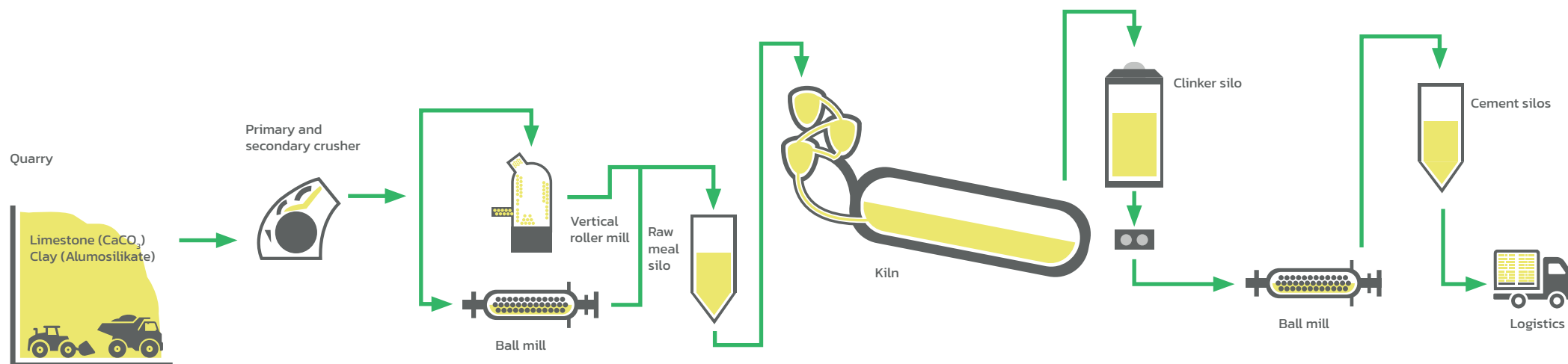
BURNING OF CLINKER REPRESENTS 65%+ OF TOTAL CEMENT EMISSIONS, ~26% DUE TO FOSSIL FUEL USE

1. QUARRYING RAW MATERIALS

2. CRUSHING AND RAW MEAL GRINDING

3. CLINKER PRODUCTION AND COOLING

4. CEMENT GRINDING AND LOGISTICS



	Quarrying and transport ¹	Crusher and raw mill	Preheater, precalciner and kiln ²	Cooler ³	Cement grinding	Storing, packing and transport ⁴
Total emissions CO₂ %	~ 1%	~ 2%	~ 66%	~ 2%	~ 4%	~ 2%
			~ 40% Calcination process ~ 26% Fossil Fuels combustion			Plus downstream emissions

1. Assumed with 1 kWh/t/100 m
2. Assumed global average, data from the GCCA, GNR
3. Assumed reciprocating grate cooler with 5 kWh/t clinker
4. Assumed lorry transportation for average 200 km.