

PRESENTATION OF THE ENVIRONMENT PER COUNTRY ACCORDING TO RESULTS OF QUESTIONNAIRES

SAFECEMENT

A 3D animation for promoting healthy workplaces in
cement quarrying and production plants

2nd meeting in Riga
24/03/2015

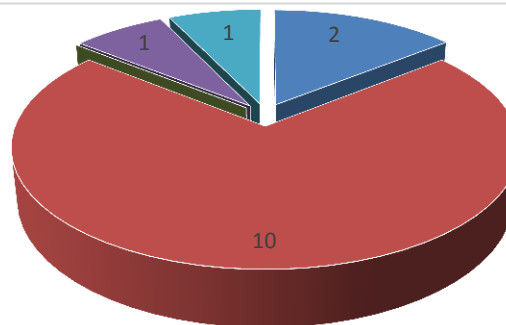
QUESTIONNAIRE ON ENVIRONMENTAL MEASURES OF CEMENT SECTOR



0.1 version – 15th January 2015



Questionnaires supplied by:		No. of answers	%
ASSOCIAÇÃO TÉCNICA DA INDÚSTRIA DE CIMENTO (ATIC)		2	0,72%
FUNDACIÓN CEMA (CEMA)		10	3,61%
ASOCIACIÓN EMPRESARIAL DE INVESTIGACIÓN CENTRO TECNOLÓGICO DEL		0	0,00%
CHALMERS TEKNISKA HOEGSKOLA AB (CHALMERS)		1	0,36%
SIA CEMEX (CEMEX)		1	0,36%
		14	5,05%



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- ASSOCIAÇÃO TÉCNICA DA INDÚSTRIA DE CIMENTO (ATIC)
- FUNDACIÓN CEMA (CEMA)
- ASOCIACIÓN EMPRESARIAL DE INVESTIGACIÓN CENTRO TECNOLÓGICO DEL MÁRMOL, PIEDRA Y MATERIALES (CTM)
- CHALMERS TEKNISKA HOEGSKOLA AB (CHALMERS)
- SIA CEMEX (CEMEX)

1.- Are there environmental management models based on some standard generally implanted in the cement industry?	No. of answers	%
<input type="checkbox"/> Yes	14	100,00%
<input type="checkbox"/> No	0	0,00%
1.1.- If so, what is the standard implemented?		
<input type="checkbox"/> ISO 14001	14	70,00%
<input type="checkbox"/> EMAS (Eco-Management and Audit Scheme)	6	30,00%
1.2.- If so, is it integrated with another certified management system?		
<input type="checkbox"/> ISO 9001 Quality	14	56,00%
<input type="checkbox"/> BS OSHAS 18001	11	44,00%

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1.2.- If so, is it integrated with another certified management system?		
<input type="checkbox"/> ISO 9001 Quality	14	56,00%
<input type="checkbox"/> BS OSHAS 18001	11	44,00%

2.- Are consumed alternative raw materials in the cement industry of your country?	No. of answers	%			
<input type="checkbox"/> Yes	14	100,00%			
<input type="checkbox"/> No	0	0,00%			
2.1.- If so, indicate below 5 fuels most often used as an alternative raw material:					
<input type="checkbox"/> Ash for cement grinding	13	19,70%			
<input type="checkbox"/> Slag for cement grinding	7	10,61%			
<input type="checkbox"/> Mining tailings	0	0,00%			
<input type="checkbox"/> Recover or artificial gypsum	7	10,61%			
<input type="checkbox"/> Slurry produced out carbonate	6	9,09%			
<input type="checkbox"/> Iron shavings	5	7,58%			
<input type="checkbox"/> Steel black slag for crude	0	0,00%			
<input type="checkbox"/> Pyrite ash	2	3,03%			
<input type="checkbox"/> Other slag for crude	3	4,55%			
<input type="checkbox"/> Ash for crude	1	1,52%			
<input type="checkbox"/> Waste from rock, ornamental and related industries for crude	0	0,00%			
<input type="checkbox"/> Reducing agent of recycling	5	7,58%			
<input type="checkbox"/> Other alternative raw materials for crude	1	1,52%			
<input type="checkbox"/> PCB (Construction and demolition wastes), debris	1	1,52%			
<input type="checkbox"/> Foundry sand	5	7,58%			
<input type="checkbox"/> Steel white slag for crude	2	3,03%			
<input type="checkbox"/> sugar-refinery scum	0	0,00%			
<input type="checkbox"/> Other: <u>Aluminium carrier, Lime waste; sands from fluidised beds; Wastes from stone cutting and sawing; Secondary iron oxide; Glass waste, Wastes from marble industry, bauxite, stone cutting powder, lime sludge, ferric sludge from blast furnace, recoverable clay, waste of alumina.</u>	8	12,12%			
2.2.- In relation to consumption of alternative raw materials, it may be confirmed that consumption relating to the current cement production has...					
<input type="checkbox"/> Increased	4	28,57%			
<input type="checkbox"/> Remained	0	0,00%			
<input type="checkbox"/> Decreased	10	71,43%			

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<input type="checkbox"/> Decreased	10	71,43%			

3.- ¿Are consumed alternative fuels in the cement industry in your country?				
<input type="checkbox"/> Yes	14	100,00%		
<input type="checkbox"/> No	0	0,00%		
3.1.- If so, indicate below 5 alternative fuels that are used most frequently:				
<input type="checkbox"/> Animal meal	10	15,15%		
<input type="checkbox"/> Tyres	11	16,67%		
<input type="checkbox"/> Refuse-derived fuel (RDF)	10	15,15%		
<input type="checkbox"/> Solvents, varnishes, paints and mixtures	3	4,55%		
<input type="checkbox"/> Other biomass (cellulose, etc.)	5	7,58%		
<input type="checkbox"/> Wood	3	4,55%		
<input type="checkbox"/> Sludge from a conventional urban sewage treatment plant	6	9,09%		
<input type="checkbox"/> Sawdust or treated wood	1	1,52%		
<input type="checkbox"/> Used mineral oil and oil emulsions	1	1,52%		
<input type="checkbox"/> Other alternative fuels that are not composed by biomass	2	3,03%		
<input type="checkbox"/> Plastic	2	3,03%		
<input type="checkbox"/> Oil residues	0	0,00%		
<input type="checkbox"/> Waste of ELVs	4	6,06%		
<input type="checkbox"/> Industrial sludge	2	3,03%		
<input type="checkbox"/> Other alternative fuels that are composed by biomass	3	4,55%		
<input type="checkbox"/> Animal or vegetable oils or similar	0	0,00%		
<input type="checkbox"/> Textile	0	0,00%		
<input type="checkbox"/> Waste from the paper industry	0	0,00%		
<input type="checkbox"/> Other: <u>Cork waste, Biomass</u>	3	4,55%		
3.2.- In relation to consumption of alternative fuels, it may be confirmed that consumption relating to the current cement production has...				
<input type="checkbox"/> Increased	9	64,29%		
<input type="checkbox"/> Remained	3	21,43%		
<input type="checkbox"/> Decreased	2	14,29%		
3.3.- Approximately, what percentage of fuel has been replaced by waste?				
<input type="checkbox"/> Less than 10 %	0	0,00%		
<input type="checkbox"/> Between 10 - 25 %	6	42,86%		
<input type="checkbox"/> Between 26 - 50 %	7	50,00%		
<input type="checkbox"/> Between 51 - 75 %	1	7,14%		
<input type="checkbox"/> More than 75 %	0	0,00%		

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4.- Are there training programs and information for workers in the cement industry in relation to environmental management?

<input type="checkbox"/> Yes	14	100,00%
<input type="checkbox"/> No	0	0,00%
<input type="checkbox"/> Don't knows	0	0,00%

4.- Are there training programs and information for workers in the cement industry in relation to environmental management?

<input type="checkbox"/> Yes	14	100,00%
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<input type="checkbox"/> Don't knows	0	0,00%