

EcoSmart Concrete

Seymour Filtration Plant
March 11, 2008
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Outline

- Introduction to the EcoSmart Foundation
- Overview of Emissions from the Cement industry
- EcoSmart Concrete
- Seymour Filtration Plant
- Conclusion



The EcoSmart Foundation

- Started as an Industry – Government Partnership
- Work together with Government and Industry in partnerships
- Offices in two countries (Vancouver, Canada & Dubai, United Arab Emirates)



The EcoSmart Foundation



Building Performance Evaluation



The Sustainable Condo



www.ecosmart.ca
www.ecosmartconcrete.com
www.sustainablecondo.com
www.sustainabilitycorner.com



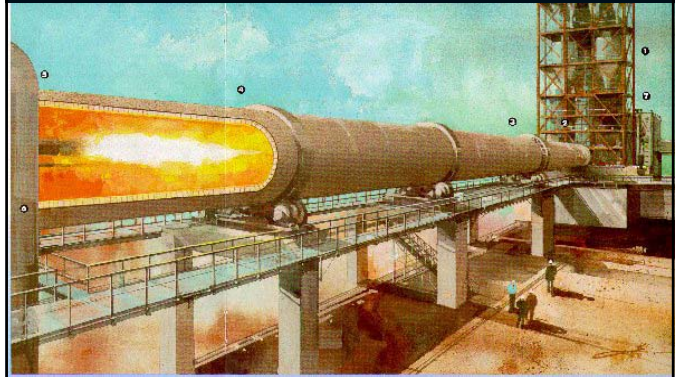
The Cement and Concrete Industry

- Concrete is the most consumed substance on earth after water
- Cement is the 'glue' in concrete and is made by grinding "clinker"
- 1 tonne of clinker = 1 tonne of GHG emissions



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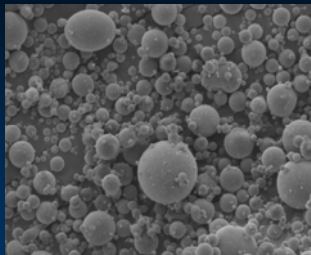
Clinker Production



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Supplementary Cementing Materials

- Fly Ash
- Blast Furnace Slag
- Silica Fume
- Rice Hull Ash
- Natural Pozzolans
- Metakaolin



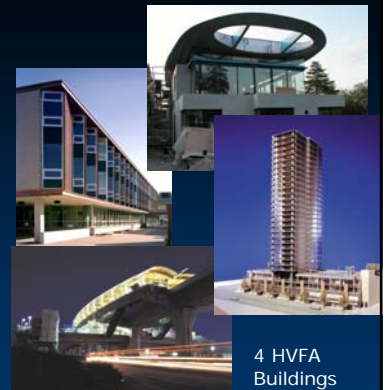
EcoSmart has over 20 case studies freely available in the EcoSmart Knowledgebase

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More For Less



2 OPC Buildings



4 HVFA Buildings

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Benefits

Top five reasons to use EcoSmart Concrete:

1. Reduced CO₂ emissions, energy and resources
2. Less permeable and more durable
3. Easier to place, pump and finish
4. Higher long-term strength
5. Lower costs



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Seymour Filtration Plant



- 20 – 55% cement replacement with fly ash
- 33,000 cubic meters of concrete used
- Estimated 6,350 tonnes of GHG emissions saved

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Conclusion

- Low hanging fruit does still exist
- You can build stronger, long lasting structures – cheaper.
- Concrete doesn't have to be grey – it can be green too!

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Thank you

www.ecosmartconcrete.com

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