

Toward international recognition and rules for co-processing

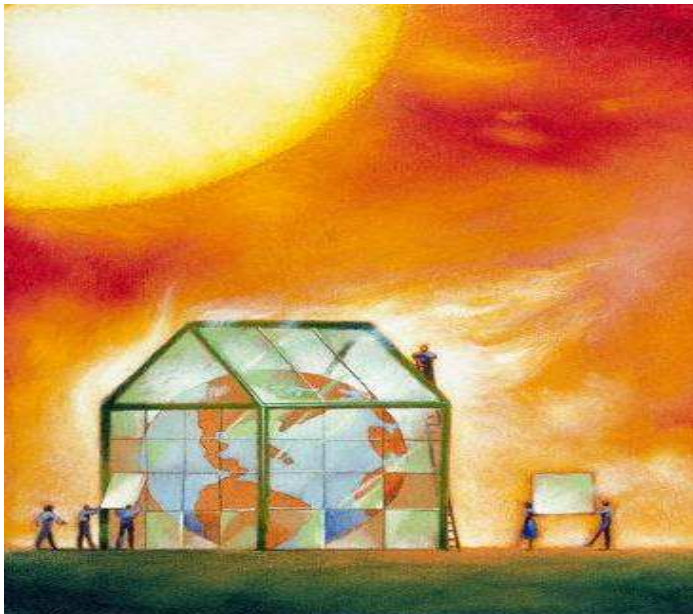
From Chile to UNEP-SBC



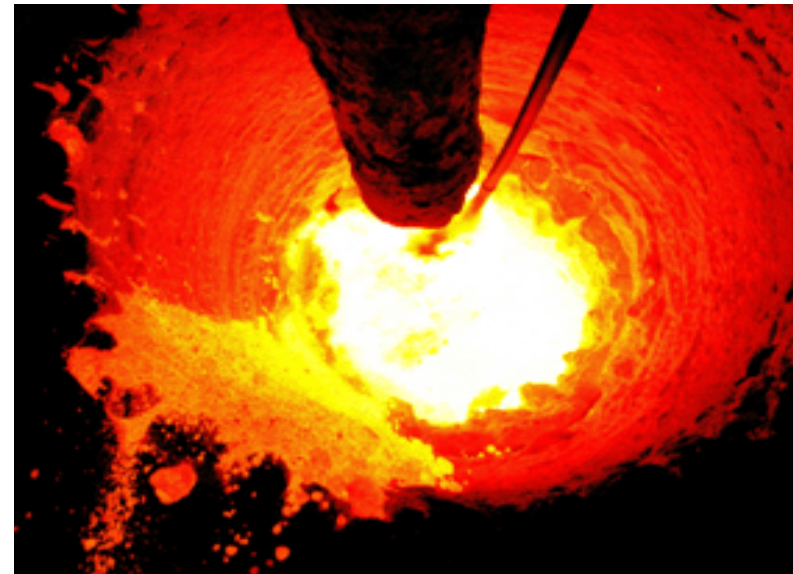
Brussels, July 05, 2011

Andrés Jensen V.

Some challenges in the cement industry



**Each ton of cement produced,
generates up to 1 ton of CO₂.**



**Cement Industry in Chile demands
more than 300.000 tons of fossil
fuels and millions tons of virgin raw
materials per year.**

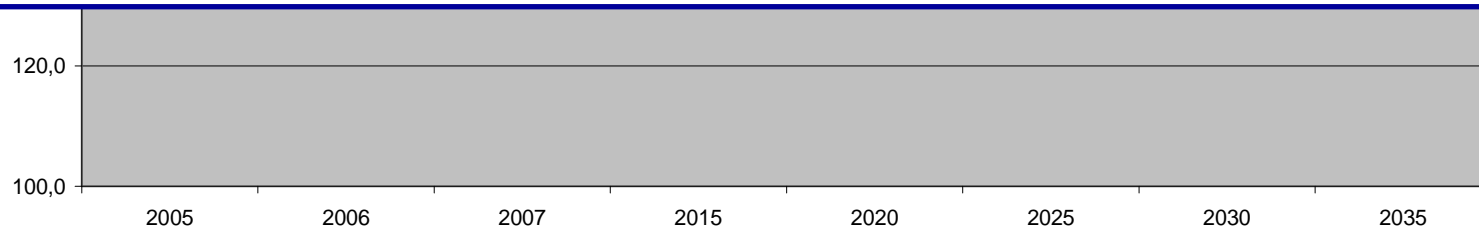
CO-PROCESAMIENTO UNA OPORTUNIDAD

EN BUSCA DE UNA SOLUCIÓN SOSTENIBLE

Total primary energy consumption
Las Americas



Energy and resources demand in continuous growth



◆ Total High Growth Rate ■ Total Low Growth Rate

Source: Energy Information
Administration Oct 2010



More than 8.5 mio tons of waste are generated each year. More than 80% is simply dumped or illegally burned.

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Problems or
opportunities ??

.....It depends
how we face the
challenge..



● Cement plants in Chile



Waste management in Chile

- No incinerators
- Only 3 landfills for HW
- 6 cement plants along the country, located close to main industrial areas.

The opportunity is there.

CO-PROCESAMIENTO UNA OPORTUNIDAD

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Latin America



Capacity building...

**Legal
Framework**

Team - Work
Authorities – Industry – Different stakeholders

**Local
guidelines**

**Authorities technical
knowledge**

**Regional
development**

**Stakeholder
involvement**

**Cement Industry
involvement**

**Authorities
involvement**

International Technical Guidelines (references)

Base situation (2001)

**Legal
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International Technical Guidelines (references)

Building Public – Private Trust

- Technical missions with authorities and other stakeholders (2002 – 2003 – 2004)



2003 – 2006: Chile as pilot country for GTZ – Holcim PPP (PPP: Public – Private Partnership)



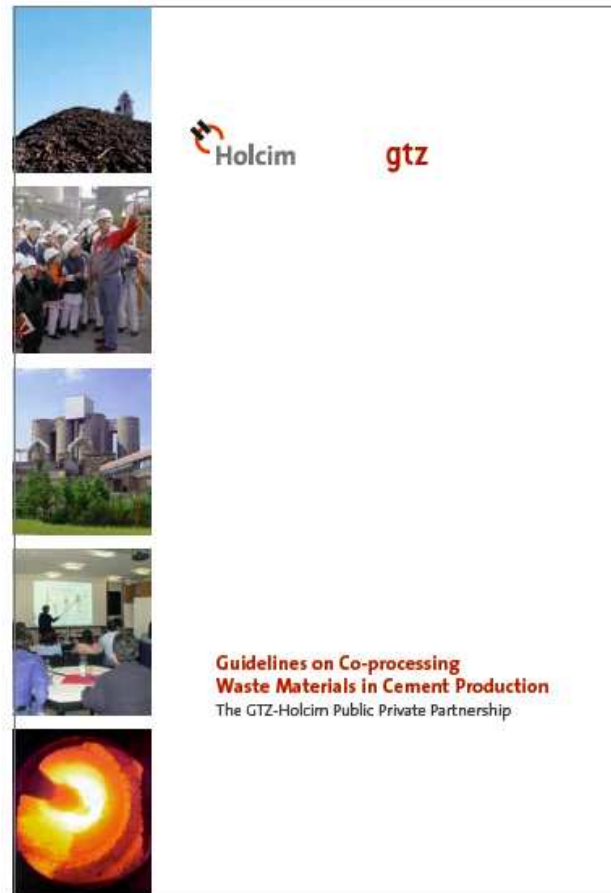
May 2006, Stakeholder Dialogue

GTZ – Holcim - Authorities – Community – Employees – Industry – NGOs

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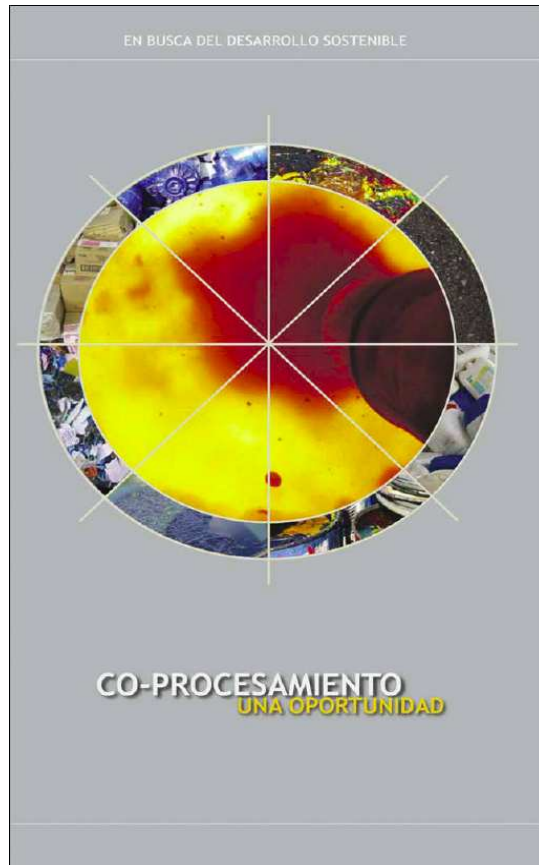
PPP GTZ – Holcim: International Guidelines for Co-processing in Cement Kilns



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2007 – 2008 : The whole Industry develops local guidelines



ACUERDO COOPERACION

En Santiago de Chile, a 08 de Marzo de 2007, Deutsche Gesellschaft für Technische Zusammenarbeit, GTZ GMBH, representado por Don Oscar Parada; Cemento Polpaico S.A., representado por Don Iñaki Otegui y Empresas Melón S.A., representada por Don Xavier Blondot, vienen a formalizar un acuerdo de cooperación para desarrollar un proyecto conjunto destinado a consolidar el concepto de la tecnología de Co-procesamiento en hornos cementeros, además de promover un marco regulatorio que permita consolidar el desarrollo de esta actividad en el marco de estándares adecuados y obtener su reconocimiento explícito en la legislación ambiental chilena.

En comprobante, se firman en 4 ejemplares de un mismo tenor, quedando uno en poder de cada parte.

Lutz Drewski
Director GTZ Chile (s)

Oscar Parada S.
Gerente General
Cemento Polpaico S.A.

Xavier Blondot
Gerente General
Empresas Melón S.A.

Elke Huettner
Jefa de Área Medio Ambiente y Energía
GTZ

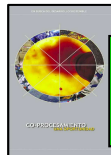
Iñaki Otegui
Gerente General Área Cemento
Cementos Bio Bio S.A.

...2008...

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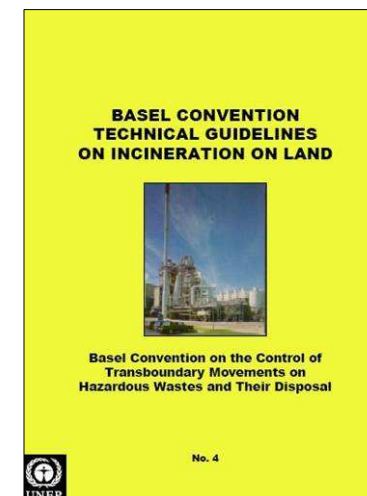
International Technical Guidelines (references)



Bali 2008: IX Conference of the Parties Basel Convention



DECISION IX/17: Review of other selected technical guidelines pursuant to decision VIII/17, e.g., on incineration on land (D10), specially engineered landfill (D5) and wastes collected from households (Y46)



Voluntary Country: Chile

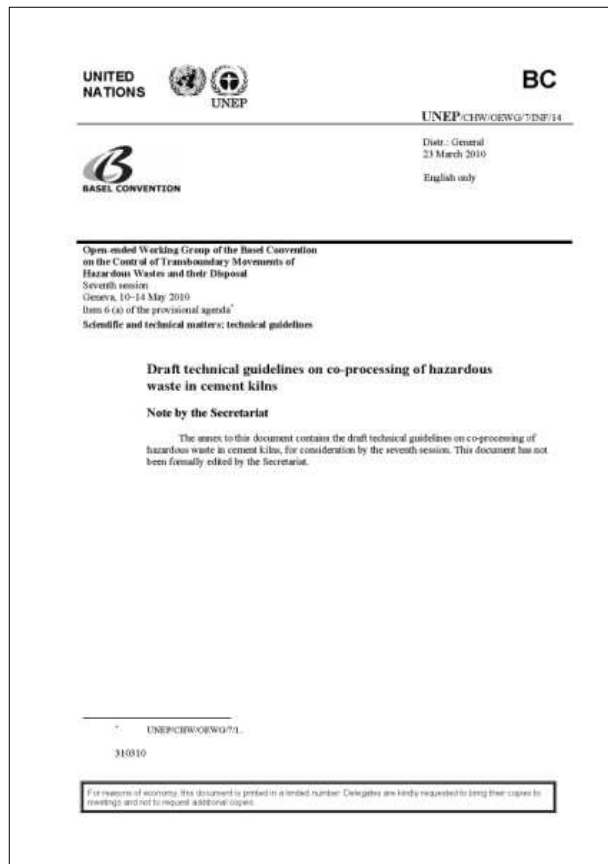


- Oct 2008: Establishment of a ***Public-Private Working Group on Co-processing***
- Nov 2008: The Government of Chile informs the Secretariat of the Basel Convention of its plan to develop ***draft technical guidelines on the co-processing of hazardous waste in cement kilns***, based on the technical guidelines on incineration on land (D10).
- Dec 2008: The Secretariat replies welcoming the initiative and making suggestions on the process for this work.

CO-PROCESAMIENTO UNA OPORTUNIDAD

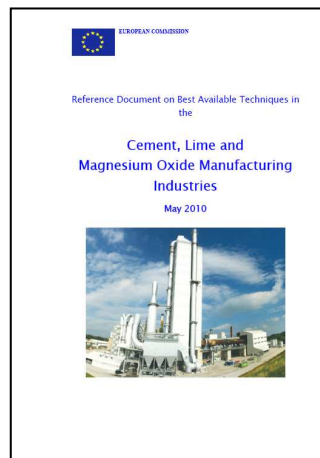
EN BUSCA DE UNA SOLUCIÓN SOSTENIBLE

Dec 2008 – March 2011



- Draft Technical Guidelines development based on BAT and LCA approach.
- Presentation and discussion at Open Ended Working Group (OEGW) Basel Convention EGW (Geneva, May 2010)
- 4 rounds of comments from parties and other stakeholders.
- Comments received and considered: EU, Canada, México, Costa Rica, Cembureau, IPEN.

Dec 2008 – March 2011



Main feedback received:

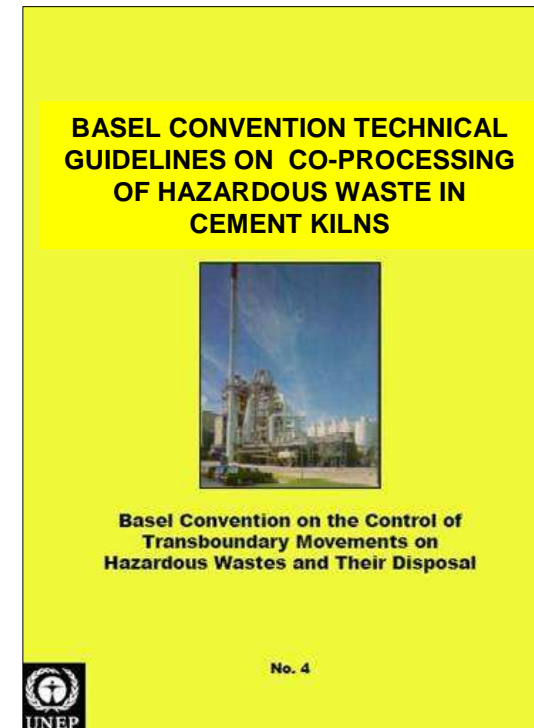
European Union:

- Clarify differences between Co-processing and Co-incineration.
- Alignment with BREF (Reference Document on Best Available Technics) Cement.
- Alignment with other international conventions (Stockholm).
- Feedback in line with Cembureau comments.

Next (last) steps.



- Last draft available in www.basel.int for last comments, to be translated to the 6 UN languages
- Last draft to be submitted to COP 10, (Colombia, Oct 2011).
- If approved....



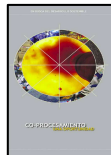
Our vision ...2011...

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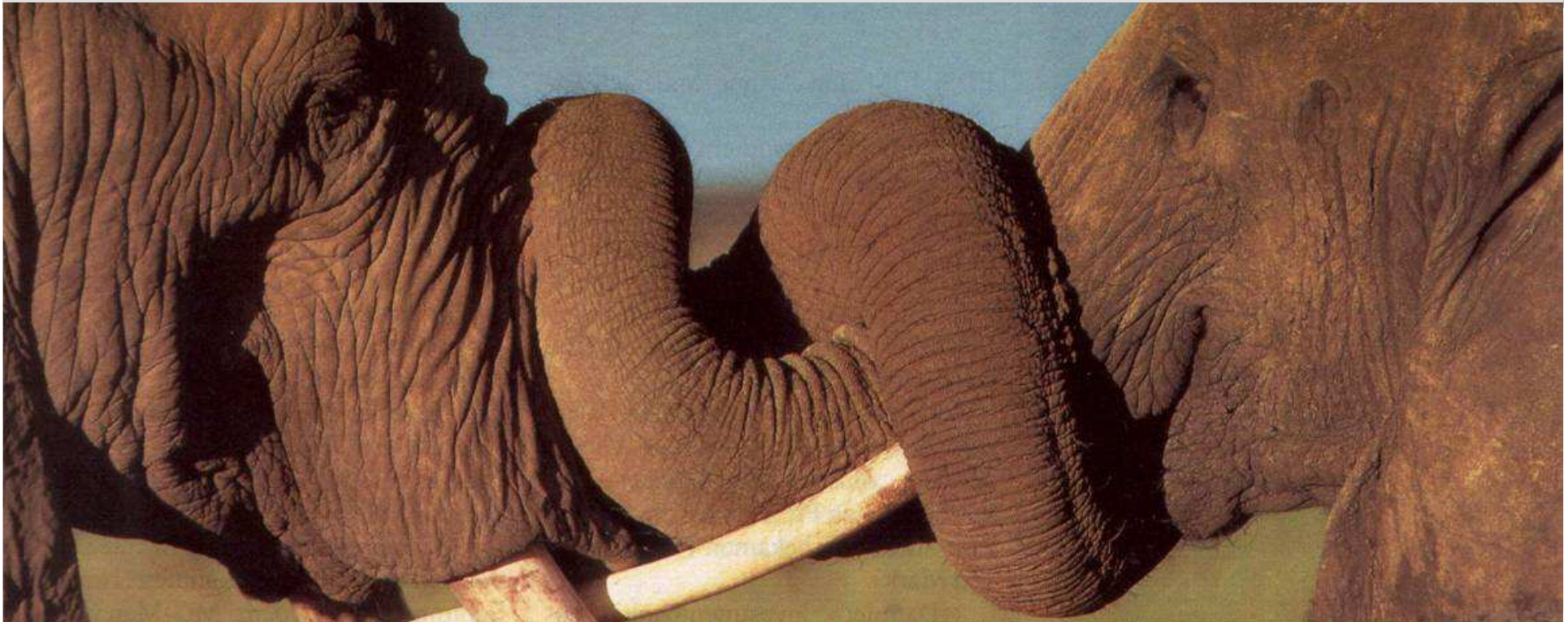


Public – Private Cooperation and Team-Work

Stakeholder Engagement

Proper technical standards

Key success factors...





**Gobierno
de Chile**

www.gob.cl

Thanks for your attention.