

GtoG LIFE + Information Board

2013

GtoG Technical achievement

Action A1: Value chain analysis in terms of deconstruction methodologies, economics of logistics and recycling

The **DA1 Report: Inventory on current practices** of deconstruction, recycling and manufacturing processes over 8 countries - Germany, France, Spain, Poland, Belgium, The Netherlands, Greece and the UK - **was released by UPM** (University Polytechnic of Madrid).

This report is a compilation of qualitative partners' contributions, analyzing of existing literature, the synthesis of the regulatory and non-regulatory requirements, the results of questionnaires on demolition, recycling and manufacturing practices, and an analysis by the 5 plants' partners of the current practices of re-incorporation of recycled gypsum waste into the manufacturing process.



Action B1: Eco-efficiency of deconstruction / segregation: Technical / economic / market feasibility



The following activities are on-going:

Creation of a **reference catalogue on material audits 20-30 years ago**, especially on gypsum based systems

Design of an **ideal methodology** to carry out a **waste audit** prior to deconstruction

Improvement of the **economical approach** of deconstruction and waste management **to be tested** on the 5 pilot jobsites (France, Germany, Belgium and UK).

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Action B2: Valorisation of deconstruction waste

This Action is under development and depends of the progress of Action B1 and B3 – the start and end of the value chain. Issues of the plasterboard waste transportation need to be solved on a case to case for each recycling route (France, Germany, Belgium and UK).

Action B3: Towards sustainable lightweight systems

The objectives of B3.1 are:

- Demonstration projects (trial productions) in the 5 manufacturing plants
- Maximization of the percentage usage of recycled gypsum given the product quality and/or process efficiency
- Recording of the important technical and economic parameters of the process.

There will be 2 rounds of production trials: a standard production scenario and a maximized C&D waste production scenario that will be carry out by each plant (Siniat UK, Siniat France, SG Placoplatre, SG Gyproc and Knauf).

After recording a general questionnaire (GQ), each plant will recycle 100 tons of C&D waste from different jobsite to reach the target. Manufacturers will follow their own percentage maximization procedure. Action B3 will follow separate scenario for each plant. The expected result is the assessment of the energy and financial costs in each of the 2 production trials.

Action C1: Monitoring of impact in the value chain (cradle to cradle approach).

So far, UPM in close collaboration with Recovering defined the best practices indicators for **deconstruction**.

Technical aspects – Steps Forward 2014

Action A1	It will take over in 2015 to end up the project with the design of the Report: Inventory on best practices.
Action B1	Further deadlines <ul style="list-style-type: none"> Reference Catalogue expected for 30 June 2014 Waste audit ideal methodology planned for 28 February 2014 So far 2 out of 5 demolition companies found their deconstruction pilot jobsites.
Action B2	A meeting between the recyclers and the manufacturers is planned the 21th January 2014
Action B3	<ul style="list-style-type: none"> Fill in the General Questionnaire by end Dec 2013 Reach agreement on the time plan production trials Reach an agreement on table of content of the Report on "Production process parameters".
Action C1	Further deadlines <ul style="list-style-type: none"> Definition of best practices indicators for recycling by January 2014. Definition of best practices indicators for manufacturing process by February 2014.

Communication success in 2013

All the expected communication tools were designed through a consultative approach with all the partners: logo, [leaflets](#), [posters](#), stand display, [GtoG website](#), [Prezi presentation](#).



Leaflets in English, French and German



Poster

Publications:

Press release:

- [Launch of the GtoG website](#), September 2013
- [Launch of the GtoG life + project](#), January 2013
- [Eurogypsum won a Life + project](#), September 2012

Articles:

- [Des filières de recyclage plus ou moins matures](#), Jean-Yves Burgy (Recovering), Gwenaëlle Croizer (Occamat), Le Moniteur, November 2013
- [Chasing Our Tails](#), Steve Hemmings (Siniat UK), Chartered Institute of Waste Management (CIWM), September 2013
- [Industry must look beyond recycled content for genuine sustainability](#), Steve Hemmings (Siniat UK), Construction News, February 2013
- [La valorisation des déchets de plâtre: un exemple d'économie circulaire à suivre](#), Jean-Yves Burgy (Recovering), Actuenvironnement.com, January 2013



Events where GtoG project was showed off by GtoG partners:

Date	Events
17/01/13	Infodays, 22 attendees, Madrid - Spain
07/03/13	European Conference on Demolition , Istanbul - Turkey
16/03/13	National German Demolition Association Annual Congress, Berlin - Germany
24/04/13	Forum on Sciences and Technology of Materials , Spain - Madrid
25/04/13	Thematic Group 3: sustainable use of natural resources, Brussels - Belgium
31/05/13	Les rencontres des métiers du SNED, Paris - France
23/05/13	PanHellenic Congress on Chemical Engineering , Athens - Greece
27/05/13	My Waste, your Resource , Brussels - Belgium
14/06/13	3rd IRCOW Workshop , Mechelen - Belgium
20/06/13	European Demolition Association Annual Convention, Milan - Italy
26/06/13	Sustainable Building & Refurbishment for next generations , Prague - Czech Republic
29/06/13	Demolition Expo 2013, Birmingham - UK
27/09/13	Forum of Deconstruction , Madrid - Spain
16/10/13	European Parliament Gypsum Forum , Brussels - Belgium

The Governance project and Reporting

The GtoG project is implemented by a Consortium composed of 17 European partners from all the value chain and led by Eurogypsum.



Governance tools

- 16 Partnership Agreements signed between Eurogypsum and each member of the Consortium
- A global Consortium Agreement signed by all the parties
- A project management and structure guidelines
- A Financial Guide
- A Communication and Dissemination Plan
- A Report with Corporate image



Project Monitoring

- Progress Reports News
- Quarterly GtoG Highlight
- Newsletter [April](#), [July](#), [October](#) 2013
- Monthly Report to Astrale (Consultant offices between Eurogypsum and the European Commission).

Reporting to the Commission

The Inception Report covering the period from January to June 2013, dealing on both technical and financial progress of the GtoG project, was submitted to the DG Environment, European Commission.

Reporting 2014 – Save the date!

Deadlines	Objectives
22/01/13	Statement of Expenditure and Income covering all the year 2013 + timesheets for Q4 – 2013
21/05/2014	Statement of Expenditure and Income covering the first Quarter 2014 + timesheet for Q1 - 2014
Sept 2014	Mid-term Report to the European Commission

Those who said on the project...



"...It is important today when resources are scarce to look at the way to optimize those already existing and thus for example the reconditioning, the recycling, the deconstruction selective are elements which enable to preserve as far as possible the natural resources which are not endless"...

Jean-Paul Gauzès, MEP, EPP, France - EP Gypsum Forum 2013

"...The GtoG project is a business model for other construction products to progress in the recycling of the Construction and Demolition (C&D) waste..."

William Neale, Member of the European Commissioner for Environment Janez Potočnik - EP Gypsum Forum 2013

