

## **Greater Houston By-Product Synergy (BPS) Third Working Meeting, Year 2, October 27, 2011**

Host: Baker Hughes, Melanie Brook-Lander and Eric Murray

Attendees: Baker-Hughes; Cherry; Goodwill Houston; Dow; Altiras; Excel; CEMEX

Following a Safety Moment and summary of the Baker Hughes Facility by Melanie Brook – Lander and Eric Murray, we heard brief comments about current synergies from all attendees. Michael Snyder, Dow, who was attending for the first time, gave a summary of the five Dow facilities that make up the Houston Area Operations and potential synergy interests.

Larry Covert, CEMEX, made a presentation about the CEMEX New Braunfels Kiln Alternative Fuels Operations that have now been significantly expanded following receipt of a modified permit from TCEQ. This facility is now permitted to receive: Tire Derived Fuel (TDF), Wood-derived fuel, e.g., construction debris but has to be untreated wood, no asbestos; Refuse-derived fuel, e.g., oil filters, shredded textiles, some plastics; Bio Solids, e.g., food residue; Agricultural products, e.g., pecan shells, cotton gin wastes, and dedicated energy crops like sorghum; other Alternative fuels. No hazardous materials are allowed. Ash is reincorporated in the product and the high destruction temperatures make this a clean emissions process. Alternative fuels are generally replace 15-20% of traditional fuels, and replacement can go as high as 30%.

Kieran Sikdar reviewed new and upcoming features in Cirrus including an online feedback form to report problems or bugs; password help; speed of loading; removal of required fields on data loading; improved notification if you enter incompatible data, e.g., text in a number field; improved synergy and status reporting; and ability to include pictures of available materials. The reporting update and picture upload features will be available at the end of November. Members can provide suggestions for enhancements and report bugs in Cirrus under My Account: Report Issue.

Each participating company was given a data sheet showing synergies identified to date, including partners and current status so they can be updated and new synergies or new materials can be added for inclusion in CIRRUS.

### **Working Group Report—Recyclables**

**Tire Synergy**—Cherry continues delivery to CEMEX weekly with whole tires for tire-derived fuel (TDF). Recent kiln shut down has limited some deliveries. Cherry is evaluating applying for a new permit as a scrap tire facility. This will increase their tire storage volume above the 2,000 tire current limit. Baker Hughes and other companies with fleet tires should contact Cherry to include these tires in the deliveries to CEMEX. Cherry will pick up the tires.

**Wood Pallets**—Goodwill has received wood pallets from Cherry. These are used to transport large rolls of textiles, computer parts, and TVs that they send for recycle. If there is enough quantity, they will pick up the pallets. Cherry, Baker-Hughes, and Emergent will follow-up with Goodwill about pallets they have available.

**Excel**—paint powder available, 14,000 lbs. every 6 weeks. Shingles—will discuss with CEMEX. Patent issues may prevent destruction.

**Baker Hughes**—Plastic sheathing from cables. Sample is under evaluation by CEMEX; Sand blasting sand may be used by CEMEX Ready Mix, Navigation Blvd.

**Goodwill**—baled textiles, 1.5 metric tons per month from the Houston area. Cherry will evaluate purchase of a shredder. Shredded textiles can go to CEMEX. Back haul from Austin may be possible.

### **Working Group Report—Chemicals**

Several synergy conversations were conducted outside of the main working group discussion and will be reviewed during individual company follow up. The Chemicals working group focused its discussion on CIRRUS feedback and strategies to increase company participation in the Greater Houston BPS project.

#### **CIRRUS comments**

- Email update and summary has been helpful
- Would be nice to include a summary of data from other regions
- Include date listed and highlight new data
- Provide email updates based on user provided interests, categories and specifics
- Provide a RCRA regulatory status drop down menu to describe if it's a waste or a product
- Include a cirrus login link with summary and any other project communication as a reminder

#### **BPS Participant Outreach strategies**

- More reminders, email notices
- 1 page pdf to print and forward to potential guests
- Post Participation agreement and NDA for
- Market unique meeting content to appropriate audience for new attendees (e.g., Definition of Solid Waste comments for chemical reprocessing facilities)
- Create a project membership mission statement and include commitment of members to recruit
- Post project information on RENEW and other sites like it
- Bring a member discounts for guest or renewal of membership
- Gift cards or other recognition for bringing guests and getting new participants
- Organizations
  - TCC – follow up with Michael Snyder regarding the next agenda
  - TCEQ May 2012 exhibit at tradeshow for BPS in Houston and Austin
  - East Harris County Manufacturers Association, and others like it

Please let us know if you have any additional comments or ideas regarding the database and new participant outreach to add to the above list. The US BCSD is reviewing these topics and will provide an update on actions taken these issues at the next meeting.

### **Comments on EPA's proposed Definition of Solid Waste**

Kieran reviewed the comments US BCSD submitted to EPA with input from several USBCSD member companies. While agreeing with the spirit of the proposed rule that illegitimate recycling should be prevented, the US BCSD disagrees with the EPA's proposal and provided comments showing the changes would reduce beneficial material reuse, negatively impact By-Product Synergy projects and ultimately increase incineration and landfill disposal for materials. Information on the proposed rule changes can be found at <http://www.epa.gov/osw/hazard/dsw/rulemaking.htm> and the US BCSD's comments can be found on the Greater Houston By-Product Synergy website.

### **US BCSD Update**

Susan and Kieran reviewed the US BCSD Fall Meeting held in Tuscon October 17-18. This included a PACE (Property Assessed Clean Energy) funding workshop. US BCSD is working with our partners, including Ygrene and Barclay's Capital, to offer PACE funding to US BCSD project participants in several states, including currently Louisiana, Ohio, and Connecticut. In Texas we are working with Thompson & Knight and others to determine if we can pilot PACE programs in Austin and Houston.

### **BPS-Hub Website Launched (<http://bps-hub.org/>)**

Kieran reviewed the content of the recently launched National BPS website. BPS-Hub was designed to compliment and promote the US BCSD's growing network of BPS projects - a central hub for BPS information across the country. On one hand, BPS-Hub will function as a detailed marketing piece, where a prospective company or organization can find detailed information on the BPS process, read specific case studies and see their direct benefits, and get updated news on BPS. On the other hand, we hope BPS-Hub will function as a central landing page for current BPS participants, providing easy login access to cirrus, easy to understand information on new opportunities like PACE financing, clearly formatted case studies to share internally, and powerful success stories that can help promote BPS internally in a company or organization. The Houston project website is linked in to this website.

### **Tour of Baker Hughes Waste Management area was led by Eric Murray.**

**Meeting Adjourned at 12:30** Next Working Meeting: Goodwill Industries of Houston

Wednesday, January 18, 2012

8:30am - 12:00pm

Location:

1140 W Loop N, Houston, TX 7705