

From: [Joseph J. James](#)
To: [Carpenter, Thomas](#)
Cc: [Ohrel, Sara](#); "[James Frederick](#)"
Subject: EPA's Science Advisory Board - Thomas Carpenter, Designated Federal Officer - Request to Consider Purpose-Grown Biomass From EPA's RE-Powering America's Lands Initiative and/or From ATP's CRBBP Process As CPP Fuel - 4/2/16
Date: Saturday, April 02, 2016 1:10:58 PM
Attachments: [ATP's CRBBP Process Overview.pptx](#)
Importance: High

Dear Mr. Carpenter:

I just read an article about the long overdue, EPA Science Advisory Board's Report on the Framework for Assessing Biogenic CO2 Emissions From Stationary Sources, and understand that you may be the Designated Federal Officer supporting the Advisory Board's efforts to prepare the Report. I am hoping that the Advisory Board and EPA are able to overcome the intra and inter-agency stove-pipe tendencies, which sometimes overlook the potential interconnections, multiple benefits and reinforcements between various governmental agency efforts and programs.

For example, I mention **EPA's RE-Powering America's Lands Initiative** (www.epa.gov/oswercpa/), which encourages renewable energy activities on the roughly 490,000, EPA-designated, contaminated sites, in the US, which total almost 15 million acres. Keeping in mind your Advisory Board's work, this EPA program could innovatively encourage the use of certain bio-crops for site remediation and then the use of their resulting biomass as a CPP-supportive, bio-coal from which to make electricity. So, I urge the Advisory Board and EPA to consider the substantial amounts of additional biomass that could be generated on just a percentage of such sites, while also improving the environmental conditions associated with their pollution.

In addition, I also hope the Advisory Board and EPA will consider including the biomass generated by our patent-pending **Combined Remediation Biomass and bio-Product Production (CRBBP) Process**, in which bio-crops could be used to treat an even larger number of contaminated sites, as it effectively lowers both remediation and biomass production costs. Note the attached **CRBBP Process Overview**. Many of these additional sites are threatening severe environmental challenges, like those facing California's Salton Sea and its surrounding region; the phosphorus pollution, which threatens the Chesapeake Bay and the Great Lakes; underperforming wastewater treatment plant spray fields, which need a boost; and former coal mining sites, which could now produce a clean and renewable bio-coal, in regions where coal mining is now declining. All of these sites, and more, can be seen as a potential additional source of CPP biomass-based fuel.

I hope the EPA Science Advisory Board will carefully consider these suggestions, in its ultimate Report, and include the additional benefits that the production of purpose-grown biomass might offer.

Looking forward to your reply.

Regards,

JJJ

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ATP's Patent-Pending Combined Remediation, Biomass & Bio-Product Production (CRBBP) Process

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Problems & Opportunities!!!

Global Challenges: Soil, Water & Biomass Availability

- There is a need for remediation and stabilization of soils and water and to increase the availability of lower-cost biomass.

EPA's RE-Powering America's Lands Initiative:

- EPA encourages renewable energy activities on the roughly 490,000 contaminated sites, in the US, which total almost 15 million acres. See www.epa.gov/oswercpa/.

Industry & Consumer Demand:

- There is growing demand for non-fossil materials that are easier to convert, use, or process into superior bio-products.

Lowering Biomass Costs Will Increase Its Utilization:

- Using biomass allotments, multiple times, will effectively reduce costs and facilitate the greater use of bio-products.



ATP's Triple-Bottom-Line Approach

Agri-Tech Producers, LLC (ATP), will help its operating affiliates, like **ATP-SC, LLC**, deploy cost-effective technologies and processes, to sustainably grow, use and convert plant, wood and other forms of biomass into a variety of bio-products, which will:

- 1. Enhance the world's environment** and quality of life, and will locate operations in lower-income, rural communities, where possible, to also
- 2. Improve economic conditions and create jobs** in deserving **rural communities**, while
- 3. Making reasonable profits** for itself and its investors.



ATP's CRBBP Process Lowers Both Remediation & Bio-Product Costs

ATP's patent-pending **Combined Remediation Biomass and Bio-Product Production (CRBBP) Process**, uses biomass allotments multiple times, as follows, effectively reducing both remediation, stabilization and biomass production costs:

- 1. Challenged sites** are cost-effectively **treated** by planting **bio-crops/trees** in them, whose **roots** to **extract pollutants, anchor soils, create storm and fresh water solutions; then,**
- 2. Once harvested,** the bio-crops/trees are **shredded, de-watered** and their biomass is directly **used** and/or **converted** into a wide **variety of bio-products**, like **fillers** for plastics, **biochars**, a plant-based **charcoal cooking fuel** or a **clean and renewable bio-coal**.



“Bio-Crops” Have “Super” Phytoremediation Powers



Standard Sorghum



“Biomass Sorghum”, by Chromatin



ATP's CRBBP Process Lowers Both Remediation & Bio-Product Costs

ATP's Patent-Pending Process, Simultaneously:

1. Cleans up **Polluted Sites & Spray Fields**
2. Soils: **Stops Erosion**, Helps **Productivity**
3. Helps Manage/Treat **Storm Water Flows**
4. Reduces **Feedstock/Bio-Product Costs**
5. Creates a **Cleaner & Safer Environment**
6. Saves an **Enormous Amount of Money**
7. Creates **Jobs** and Generates **Profits**



ATP's CRBBP Process Lowers Both Remediation & Bio-Product Costs



Phytoremediation: A low-cost, way that plant and tree roots remove toxins from soils, water, etc.



Torrefaction: A pyrolytic process that converts biomass into enhanced bio-products, like clean/renewable bio-coal.

Combined Process = Much Lower Costs

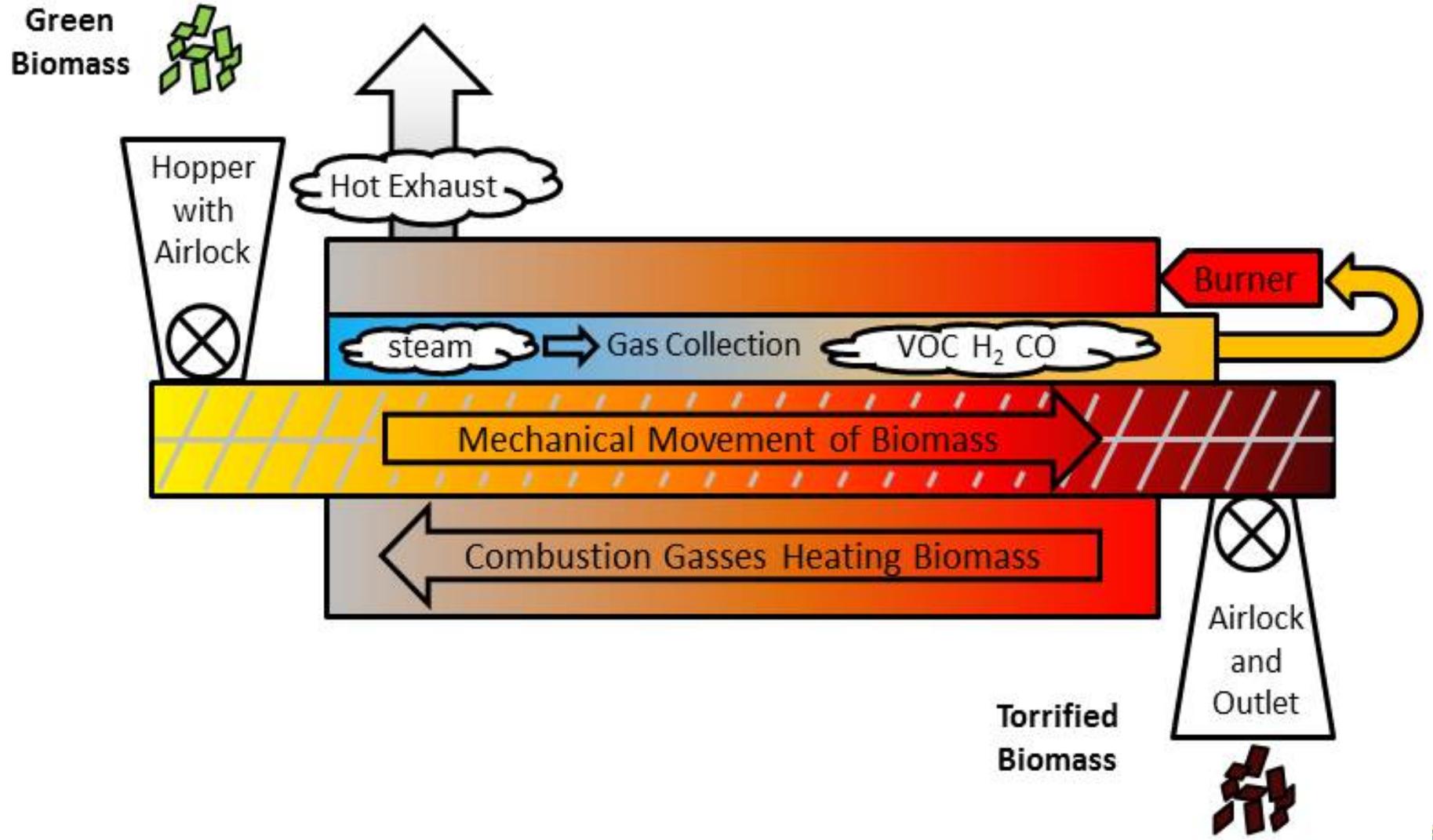


ATP's Torrefaction Process

- **Torrefaction** involves **Heating** animal, plant or wood material (**Biomass**), in a **low-oxygen** environment (**Pyrolysis**), which evaporates the material's water, Volatile Organic Compounds (VOC's), and some Hemicellulose (HC).
- In ATP's patented process, the VOC/HC gases are **Captured** and **Combusted** to cost-effectively and with minimal environmental impact, generate **Torrefaction** process heat.
- **Torrefied Biomass** can be used as a **Feedstock** from which to make a variety of **Bio-Products**, e.g. **Plastics, Biochars** and even **Bio-Coal**, which can be co-fired with or replace coal in power plants, to reduce carbon and chemical pollution, **without** expensive equipment upgrades.



Schematic of ATP's Torrefaction Machine



ATP's Demo Project Options

ATP's Operating Affiliates (OA's) are considering the following **CRBBP Process Demo Projects**:

1. Treat salt and nutrient-impacted water and reduce toxic dust dispersion in/around **CA's Salton Sea**.
2. In **SC**, treat coal ash deposits, wastewater treatment plant spray fields and EPA contaminated sites.
3. Reduce non-point nutrient pollution in soils in **MD's Chesapeake Bay Watershed**;
4. Stabilize eroded and increase productivity in **Haiti's** soils, while producing a plant-based cooking fuel.
5. On a **Global Basis**, retard desertification, conduct remediation and manage/treat storm water runoff.



Operating Affiliate Product Line

ATP's Operating Affiliates will produce the following bio-products, for domestic and world markets:

- **Enhanced Plastics Fillers:** Make stronger, lighter and heat/water-resistant plastics. **Value:** \$300-\$600/ton.
- **Biochar Soil Amendments:** Increase the productivity and water-efficiency of poor soils. **Value:** \$250-\$500/ton.
- **Plant-Based Charcoal:** Reduce Haiti's de-forestation and in-home air pollution ills. **Value:** \$250-\$400/ton.
- **Clean & Renewable Bio-Coal:** Reduce chemical and carbon pollution in existing, coal-fired plants with no de-rating or equipment upgrades. **Value:** \$175-\$250/ton.
- **CRBBP Process:** Cost-effectively remediates sites, while making the aforementioned products. **Value:** **Priceless.**



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