



**FOR IMMEDIATE RELEASE**

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## **HRE announces licensing agreement with Achor Anaerobic for revolutionary anaerobic digestion technology**

Homeland Renewable Energy ("HRE"), the agricultural-waste-to-energy specialist, announces that its anaerobic digestion ("AD") division, Homeland Biogas Energy ("HB Energy") has signed an exclusive licensing agreement with Achor Anaerobic LLC ("Achor"), a provider of innovative AD technology.

Under the agreement, HB Energy will use Achor's unique "achorlytic" enzyme and digestion-inoculating technology to significantly enhance the productivity of anaerobic digestion in its projects in the US and elsewhere. HB Energy will also work with Achor to license the technology to third parties.

Achor's technology uses enzymes to significantly increase the biogas production from digestible materials, including animal and food wastes as used by HB Energy at its facilities. Achor and HB Energy are together carrying out large scale tests of the Achor technology at AD facilities operated by HB Energy in Wisconsin. The results of the tests are expected to be available during the summer, and preliminary indications show very favorable improvements in productivity.

HB Energy focuses on turning animal agriculture waste and other organic waste streams into usable energy for America. HB Energy develops, owns and operates anaerobic digestion plants capable of producing various forms of renewable energy. HB Energy has a pipeline of over 15 large scale AD projects, ranging from 3MW to 20MW in size.

Rupert Fraser, Chief Executive Officer of HRE, said "With the benefit of Achor's technology and our project design, construction and operating skills, we are well placed to develop our pipeline of new large-scale AD plants, serving our customers in livestock farming and food processing. Achor's technology will enable us to build larger scale anaerobic digestion plants with more competitive economics, so that we can produce truly renewable energy while removing waste problems for farmers and food companies."

Chris Barry, cofounder of Achor and originator of the achorlytic approach to accelerating and enhancing anaerobic digestion, said "Achor Anaerobic is delighted to be working in partnership with HB Energy. The business, engineering and planning base provided by HB Energy provides the perfect platform for the exploitation and expansion of our technology. We aim to make HB Energy the most advanced and profitable AD company in the US and beyond through enabling them to get the very best from the feedstocks available. We will work with them on innovative design and development that will be 'game-changing' in the field of anaerobic digestion and bioenergy."

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### **For More Information**

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### **Background notes:**

**Homeland Renewable Energy** (“HRE”) is the holding company of a group of companies producing energy from agricultural waste. HRE’s principal subsidiaries are:

- Fibrowatt LLC, developing, building and operating power plants fueled by the combustion of poultry litter and other agricultural biomass;
- Homeland Biogas Energy LLC, developing, building and operating anaerobic digestion plants fueled by animal and food processing wastes.

HRE, based in Pennsylvania, was founded in 2003. Its management had previously built the world’s first three poultry litter fueled power plants in the UK during the 1990s. In 2007, HRE built, through Fibrowatt LLC, a fourth plant, the 55MW Fibrominn Biomass Power Plant in Minnesota, which uses over 500,000 tons per year of turkey waste and other agricultural biomass to produce renewable electricity and a nutrient-rich ash-by-product fertilizer.

**HB Energy’s** anaerobic digestion plants feature the following key benefits:

- Proven large scale operation brings economies of scale;
- Energy can be sold either as pipeline-quality biogas or as renewable electricity;
- Clean, viable, green technology from an abundant renewable resource;
- Producing a high-quality fertilizer by-product;
- Improving biosecurity and hygiene management for animal and food waste streams;
- Reducing methane emissions, water pollution and odor from animal wastes;
- Renewable energy generated from rural resources reduces America’s dependence on fossil fuels and imported oil.

**HB Energy** employs staff who have pioneering experience in developing, building and operating larger scale AD plants than any other US-based developer. Their track record includes the successful construction and operation of three 1MW AD plants in Wisconsin, and demonstrating that such plants can be “scaled-up” to ten times this size.

**Achor Anaerobic** LLC has strong research links both in the US and Europe and is able to draw on the best academic science to inform the development of the two companies. It has recently taken up laboratory space with the University of Missouri and is in discussions with the school of chemistry and biochemistry in the exploration of routes of cooperation. Achor also has strong links with Living PlanIT SA, for whom its UK sister company is the main partner providing Bioenergy technology and expertise.