

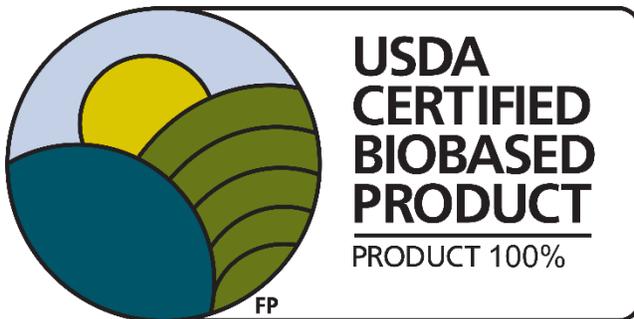


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FOR IMMEDIATE RELEASE
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PHASE CHANGE ENERGY SOLUTIONS EARNS USDA CERTIFIED BIOBASED PRODUCT LABEL WITH 100% BIOBASED CONTENT

BioPCM®, a breakthrough material in thermal energy storage, has received its USDA Certified Biobased Product Label from the USDA's BioPreferred program.



ASHEBORO, NC, September 25, 2018 –

Phase Change Energy Solutions today announced that it has received the 100% certified biobased product label from the USDA BioPreferred program.

Third-party verification for a product's biobased content is administered through the USDA

BioPreferred program, an initiative created by the 2002 Farm Bill and expanded by the 2014 Farm Bill. One of the goals of the program is to increase the development, purchase and use of biobased products. Use of these renewable materials displaces the need for non-renewable chemicals.

BioPCM is a novel plant-based phase change material made from sustainably-sourced vegetable oils that maintains its thermal performance for over 100 years. BioPCM absorbs excess heat when surrounding temperatures exceed a specified target temperature, and conversely releases heat when the temperature drops below the target. The result is a reusable and renewable system that stabilizes temperatures without requiring electricity.



Dr. Reyad Sawafta, Chief Scientific Officer at Phase Change Energy Solutions, said, “BioPCM is now certified with 100% biobased content and listed among the USDA BioPreferred products, demonstrating our commitment to sustainability as we work to meaningfully reduce energy consumption, environmental impact, and waste in some of the world’s largest industries.”

BioPCM applications include temperature-sensitive shipping solutions, bulk thermal storage systems that provide system resiliency and reduce energy costs and building solutions that maintain occupant comfort while reducing heating, ventilation and air-cooling (HVAC) energy costs by as much as a third.

What Are Phase Change Materials?

Phase change materials (PCMs) are substances with a high heat of fusion that, when melting or solidifying at a certain temperature (i.e., a phase change), can store and release large amounts of energy. During a phase change (melting or freezing), molecules rearrange themselves and cause an entropy change that results in the absorption or release of “latent heat”, meaning that during a phase change the temperature of the material itself remains constant and stabilizes the temperature of the system.

About Phase Change Energy Solutions

Phase Change Energy Solutions is a global leader in the development and deployment of next generation energy efficiency and thermal storage solutions that harness the power of BioPCM®, the company’s proprietary phase change material. Phase Change Energy Solution’s BioPCM® products are used to improve whole-building energy efficiency in retail, commercial, hospitality and industrial applications; enable safe transport of sensitive food and pharmaceutical products; and provide enhanced thermal storage capabilities for industrial processes. Fortune 100 banking, telecom, hospitality and technology companies, as well as the U.S. government, have installed millions of square feet of BioPCM® products to reduce operating expenses and environmental impact. Learn more at www.phasechange.com.