GreenMantra Technologies is a rapidly growing clean technology company that has successfully scaled its chemical recycling businesses and is diverting millions of pounds of plastic from our environment into new applications each year. GreenMantra utilizes a proprietary and patented process to create specialty polymers and synthetic waxes from recycled plastic feedstocks. Our products function as performance enhancers and processing aids in industrial applications ranging from roofing shingles and asphalt roads to plastic parts like industrial packaging, trash bins and composite decking. In each application, our products optimize our customers’ profitability by:

1. Improving the performance of their products,
2. Providing a more efficient manufacturing process and
3. Enabling them to use lower cost feedstocks, which reduces formulation costs

Product Description

GreenMantra has commercialized a product line of plastic additives created by our unique advanced recycling process. Our technology is based on a thermo-catalytic process that allows for controlled depolymerization of the discarded plastic. The catalyst delivers exceptionally high yields with low energy input and enables precise control over the polymer structural and thermal properties, which are tailored to end-use applications. The resulting products can be used as additives to optimize process efficiency and allow the formulation flexibility to increase recycled plastic content.

In 2018, GreenMantra expanded its application footprint to the plastic processing market. A well-known factor contributing to low recycled content in plastics is the difficulty manufacturers face when incorporating higher levels (>25%) of recycled plastic into end products. This is due primarily to the variability of plastic properties in recycled plastic streams, which adversely impact processing efficiencies (such as output per hour) and finished product quality. GreenMantra’s additives allow companies to overcome some of these processing, compatibility and quality challenges that limit the ability to increase recycled content in extruded plastic products and injection molded parts. Since our products uniquely enable the formulation flexibility to increase the recycled content by up to 50% without sacrificing performance, our technology can also have a dramatic multiplier impact on the amount of waste diverted from landfill.

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Thank you for participating in the 2020 Showcase!
Your commitment to plastics recycling is greatly appreciated.

Steve Alexander, APR President ____________________________
John Standish, APR Technical Director ______________________________