


Accelerating plastic recycling – Close to the waste or close to the cracker?

Advanced recycling is key to a fully circular plastic future. Chemical players, refineries, waste management companies all play a critical role in accelerating plastic recycling. In this presentation BlueAlp will address a pressing question: will advanced plastic recycling be located close to plastic waste sources, or will steam crackers be the center point? We will delve into the opportunity for a centralized recycling model integrated with steam crackers versus a decentralized waste management approach that combines mechanical and chemical recycling within the same facility. To paint a comprehensive picture, we will also provide an in-depth look at BlueAlp's pilot plant in Switzerland, the first commercial plant operating in Belgium and the upcoming and upgraded projects, demonstrating how different models can be successfully implemented. And lastly, BlueAlp will discuss the key drivers, including the legislative landscape, needed to not just maintain but notably increase the momentum for advanced recycling.

Wide range of plastics	Continuous process	High standards of process safety
High Oil Quality	Scalable Technology	Efficient energy balance
Flexibility to adjust operating parameters	No catalyst	

BlueAlp Technology Installation:



BlueAlp Product Oil



BlueAlp Technology Diagram:

- Extruder section
- Heating and melting
- Cracking
- Product recovery (distillation)
- Overhead gas treatment and consumption
- Char handling

