

AGPLASTIC SOLUTIONS

Waste to Energy & Agricultural Plastics Circularity

THE ENVIRONMENTAL PROBLEM

Plastic technology revolutionized the agricultural industry by allowing farmers to achieve significant increases in crop yield. However, agricultural plastics contribute to roughly 2% of the world's total plastic production - an **estimated 12.5 million tons of ag plastics are produced annually**. Despite the benefits of ag plastics, there are significant environmental costs across all phases of the plastics life-cycle.

PRODUCTION

Fossil Fuel Extraction and manufacturing

USE

Microplastic Contamination in Soil and Water

DISPOSAL

Toxic Leachate and Air Pollution

BUSINESS SOLUTION

AgPlastic Solutions mitigates the environmental impacts of agricultural plastics disposal by capitalizing on this underutilized waste stream through the development of **recycling projects using small-scale, modular advanced recycling systems**.

ADVANCED RECYCLING TECHNOLOGY

AgPlastic Solutions partners with emerging technology providers that are developing advanced recycling systems that apply processes, such as **pyrolysis** and **gasification** to break down plastics at the molecular level and convert them into useful chemicals - such as fuels and plastic precursors.

END-PRODUCTS



Commodity Fuels

Gas & Diesel



Plastic Precursors

Naphtha & Pyrolysis Oil



Syngas

Hydrogen & Carbon Monoxide

PROJECT DEVELOPER BUSINESS MODEL

FEEDSTOCK

Source contaminated agricultural plastic waste streams from farmers and waste haulers

TECHNOLOGY PROVIDERS

Work with emerging technology providers to site, scale, and manage advanced recycling projects

END-MARKETS

Identify buyers and end-markets for recycled plastic end-products, ideally selling to logistics heavy corporations with sustainability goals

INVESTORS

Secure funding from social impact investors or municipalities. Investor ROI from end-product sales

A VIABLE SOLUTION FOR MANAGING AGRICULTURAL PLASTIC WASTE



Turning a hard-to-manage, under-utilized waste stream into useful products



Potential to reduce overall Green House Gas Emissions



Helping companies meet sustainability goals



COMPETITIVE ADVANTAGE

EXPERTISE AND RELATIONSHIPS

Expertise and relationship building within the industry are a critical component of specialized agricultural plastic waste management.

TECHNOLOGY AGNOSTIC

Maintaining relationships with a variety of technology providers allows the best available technology to be chosen for the project.

PROJECT DEVELOPMENT MODEL

As a project developer, AgPlastic Solutions manages the project complexities to get these systems in operation.