FEECO was commissioned by a company specializing in biological farming products in partnership with a large-scale dairy farm to develop an on-farm granulation plant to process digested dairy manure into a specialty fertilizer.

Batch and pilot testing in the FEECO Innovation Center was crucial to developing a process that incorporated the farm’s unique source of manure with a multitude of additional components to create the custom, all-in-one fertilizer granule they were looking for.

We then scaled up this process and engineered and fabricated the equipment to provide a complete system integrating agglomeration/mixing, drying, cooling, screening, recycle, gas handling, process controls, and all necessary material handling equipment.

In addition to our role in process design and equipment manufacturing, we also provided a variety of systems engineering services, including but not limited to plant general arrangement drawings, vendor interface, bid evaluation and analysis, P&IDs, control system interface, electric plant device drawing development, project management, start-up assistance, and more.

FEECO worked with vendors and engineering firms to integrate the granulation plant as part of a complete manure processing line with pre-treatment, storage, blending, and other necessary support systems to serve as a commercial-scale fertilizer production facility.

FEECO continues to serve the project through remote support capabilities facilitated by Rockwell Automation and Allen-Bradley controls integration.