Biogas Boiler Plants
Case Study

Overview

In the U.S. agricultural market, biogas operations have become an attractive solution for generating renewable methane gas. The LCFS (Low Carbon Fuel Standard) in California, for instance, is designed to decrease the carbon intensity of California's transportation fuel pool and provide an increasing range of low-carbon and renewable alternatives, which reduce petroleum dependency and achieve air quality benefits.

Biogas Operations

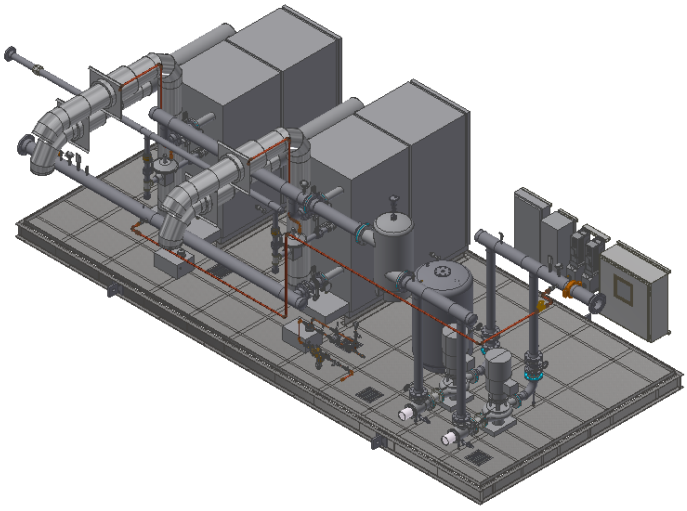
The renewable gas generated from biogas operations currently holds a high value. (Gas produced from dairy farms as one example.)

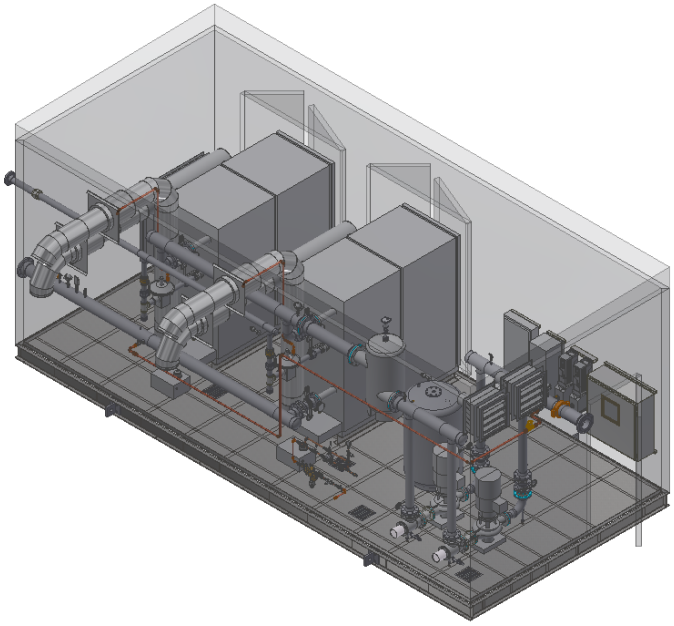
Currently, Systecon is providing boiler plants in the Southwest for dairy farmers. This uptick in biogas solutions seems to be catching on quickly, with project development evolving through utility companies from the start.

Modular Turnkey Solution

Systecon's value comes into play with the streamlined modular delivery of gas fired boiler systems, including a turnkey solution for engineering, manufacturing, installation and startup. The boiler plants will be fueled by local natural gas distribution (or propane gas if natural gas is not locally available at the project site).

Each boiler plant provides a hot water loop that will help maintain Biogas Anaerobic Digesters at 100 deg F. The digesters then feed into a pressure swing operation that separates a gas mix (45% CO2, 55% Methane) to produce the methane rich renewable gas (typically discharged to a truck trailer or local gas pipeline connection).





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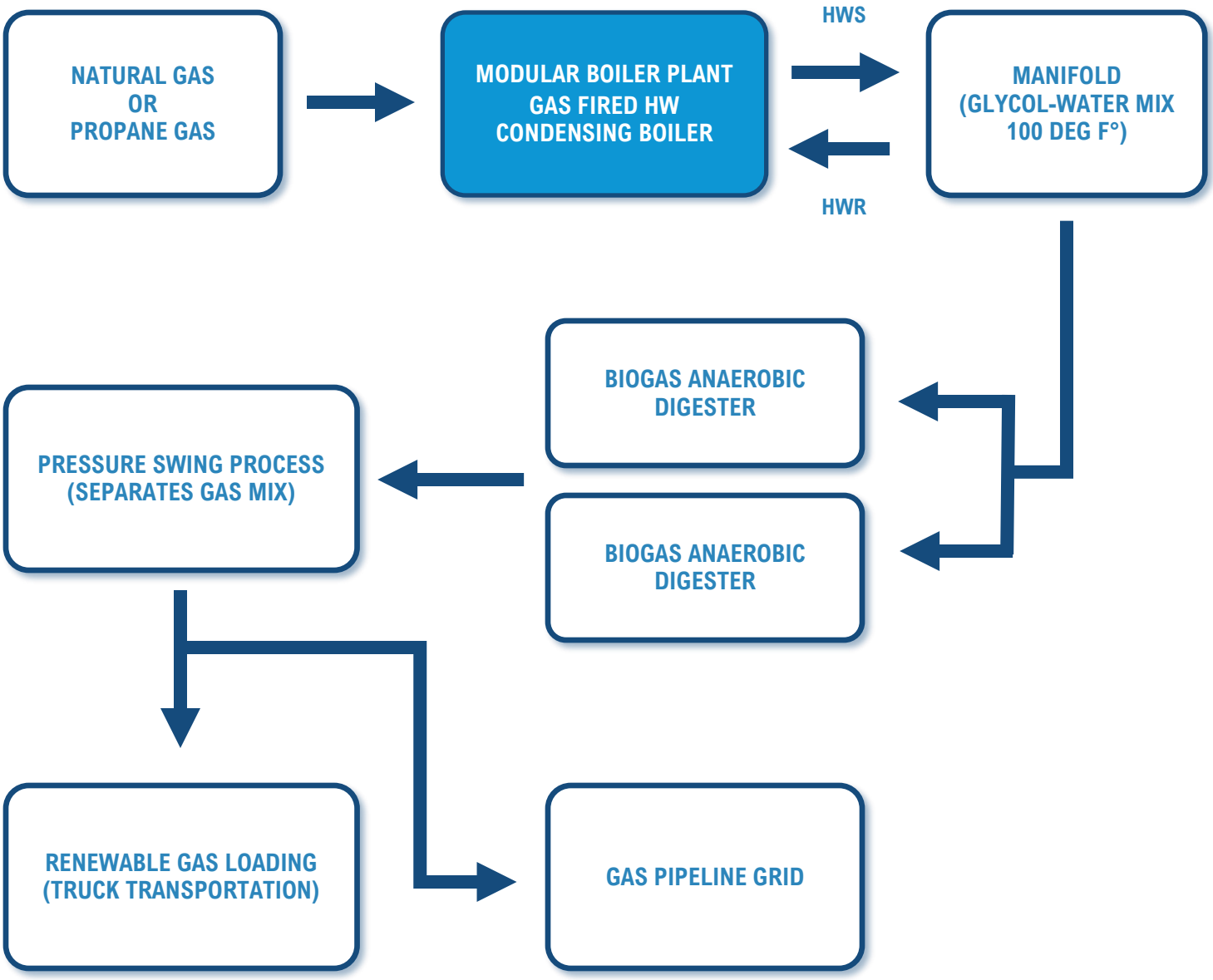
Biogas Boiler Plants
Block Flow Diagram



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