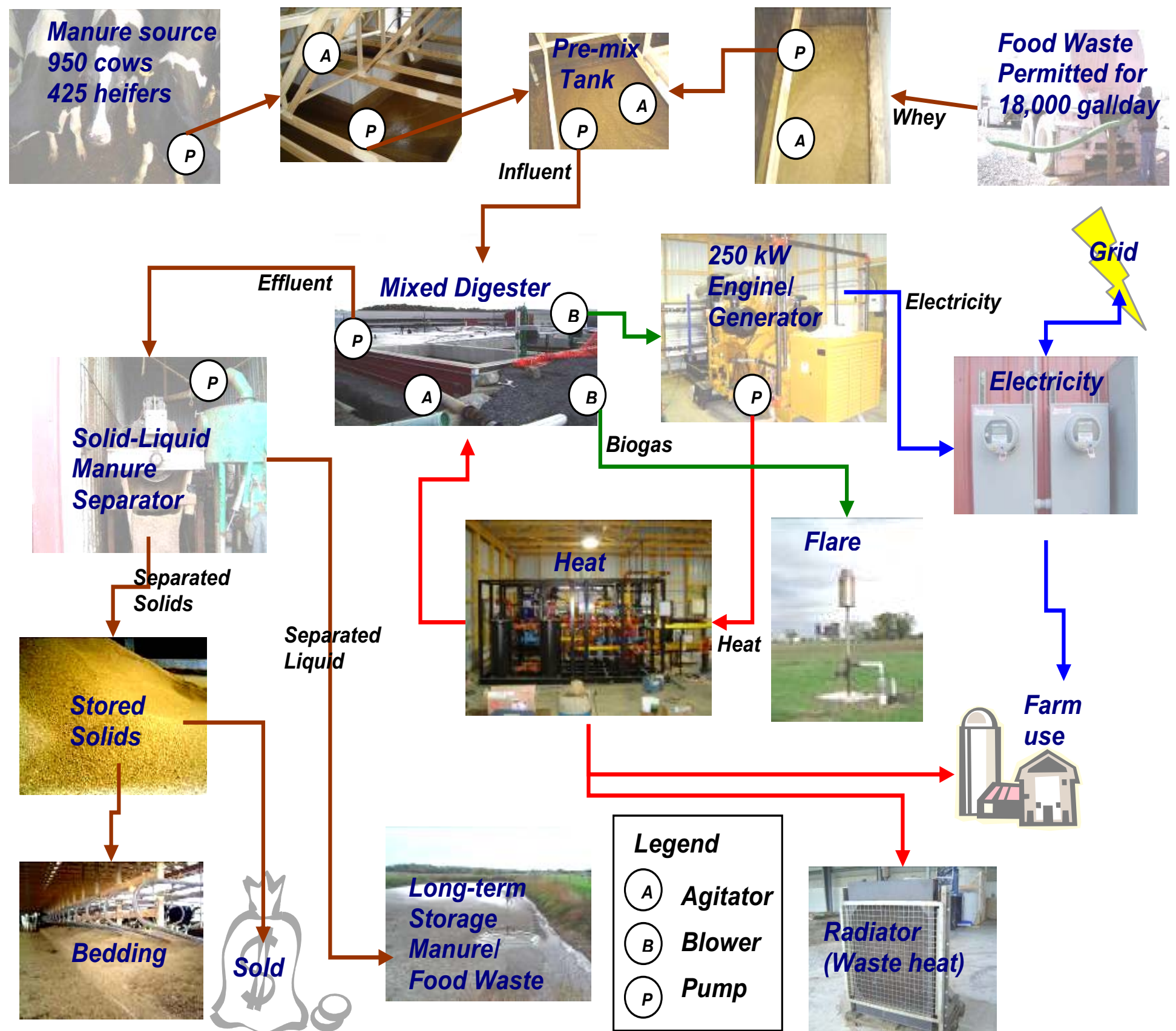


Process Description

Currently, the digester processes 45,000 gallons per day of raw manure pre-mixed with 15,000 - 22,000 gallons per day of whey.



Solid-liquid separator



Separated manure solids used for bedding and sold as compost



Separated liquid long-term storage

Benefits and Considerations

Benefits

- Odor control
- Potential revenue from:
 - 1) Value-added products
 - 2) Reduction of purchased energy
 - 3) Food waste tipping fees
 - 4) Efficient use of biogas production
 - 5) Carbon credit sales
- Conversion of nutrients from organic to inorganic form, allowing them to be readily utilized by plants as a natural fertilizer, if effluent is spread at an appropriate time
- Pathogen reduction

Considerations

- Possible high initial capital and/or high operating costs
- Long and tedious contracts with the local utility; may require special equipment for interconnection
- Dedicated management of the digestion system is required
- Careful attention to equipment maintenance and safety issues due to the characteristics of raw biogas
- Increased land base may be required to handle the imported food waste nutrients
- Specialized permits may be required to import food waste