

Valmet Measurements Optimize Food Waste Processes

Approximately 1.3 Billion tons of food is wasted from the world's tables, restaurants and food processing centers per year. Capturing this waste has created an industry that processes food waste into energy and fertilizer.



"Biodegradable waste" by Photo taken by Muu-karhu - Own work. Licensed under CC BY-SA 3.0 via Commons.

Processes vary, but typically a food slurry is created and this slurry is pumped through various processes to generate a usable product. Anaerobic Digestion is the process where the food slurry produces both methane and "compostable" solids for agriculture. The methane produced can be used to produce electricity therefore offsetting the electricity costs and reducing greenhouse gas emissions.

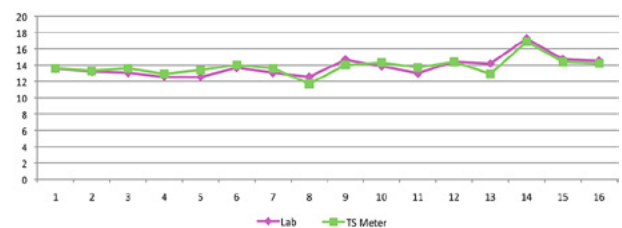
Anaerobic Digestion Facility



Like all Industrial Processes there is a need to optimize for efficiency. This includes accurate solids measurements provided by Valmet. For example, the Valmet TS measures food waste feed solids to digestion which allows a mass flow calculation. A known mass flow allows for better digestion temperature control and prediction of biogas production.

Food Waste Measurement Results

Below is an example of higher solids measurements from an actual food waste installation. The Valmet TS is capable of measuring both high solids and low solids depending on application requirements.



Valmet TS benefits

- No Moving Parts
- No Periodic Calibration Required
- Measures wide range of solids
- Non intrusive
- Years of maintenance free use



Valmet TS

For more information, contact your local Valmet office. www.valmet.com

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