

CenterPoint Energy Rebate

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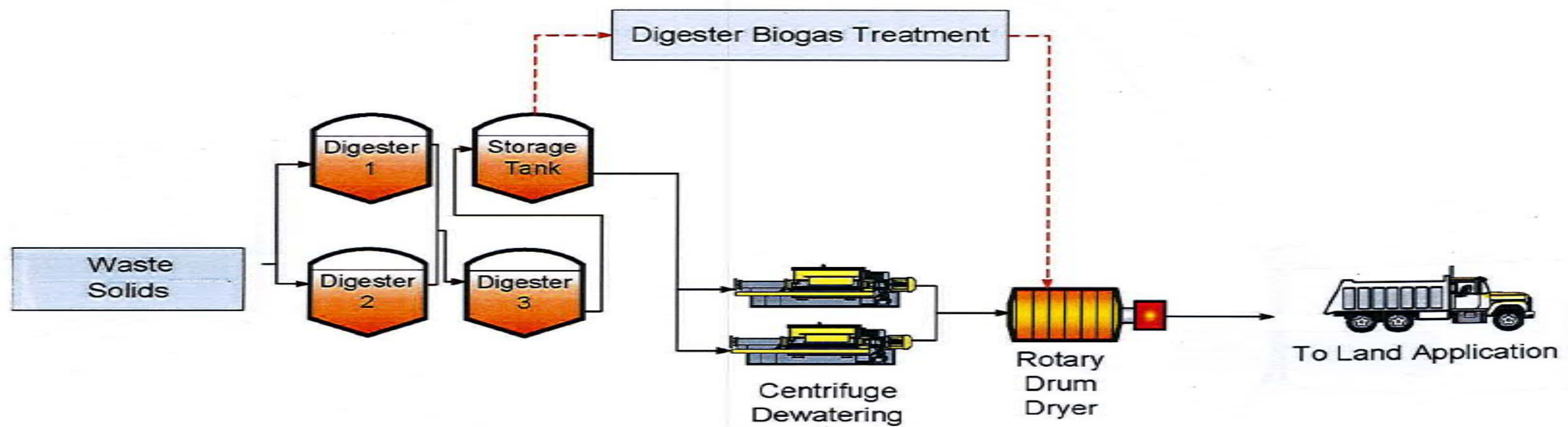
Biosolids Processing

From Flush to Field

- Biosolids: residuals from wastewater treatments
- Rotary drum dryer makes fertilizer pellets
- Apply to cropland
- Single dryer

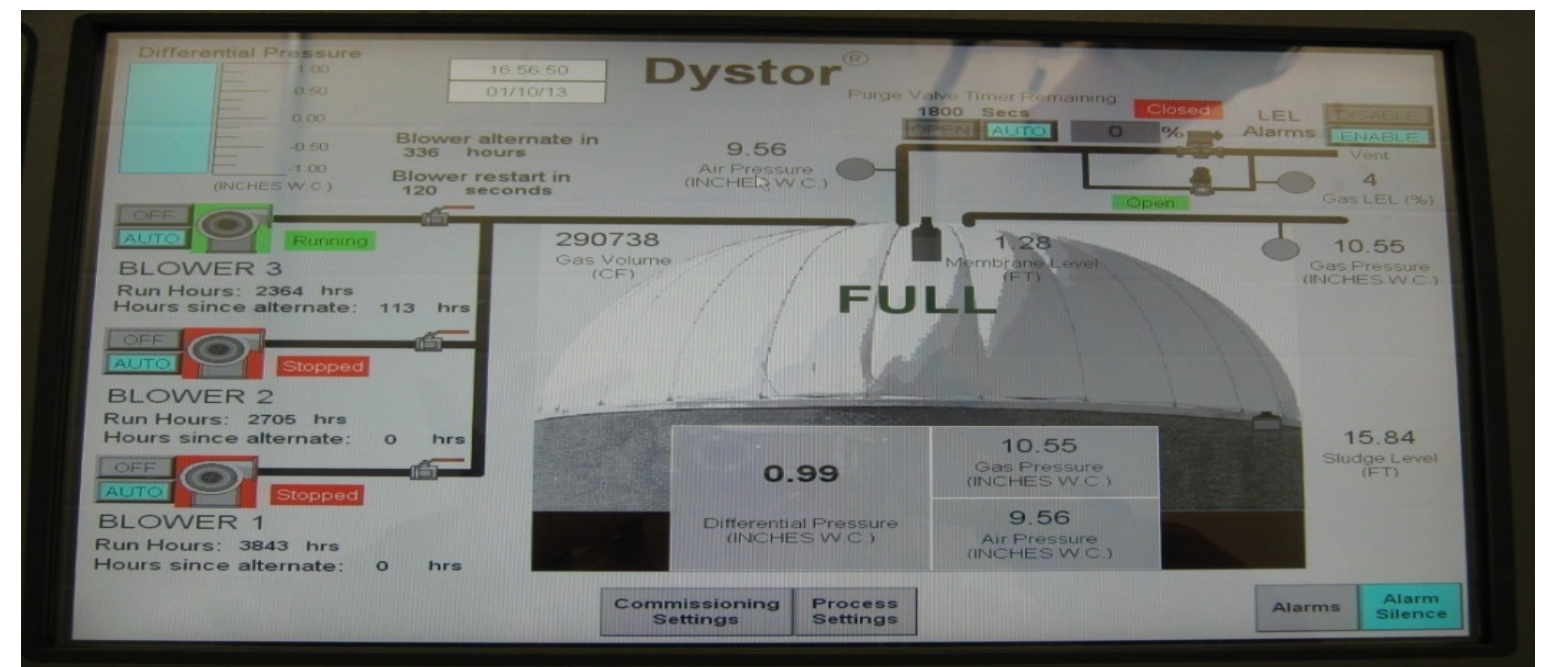


Digestion and Drying: Process Synergy



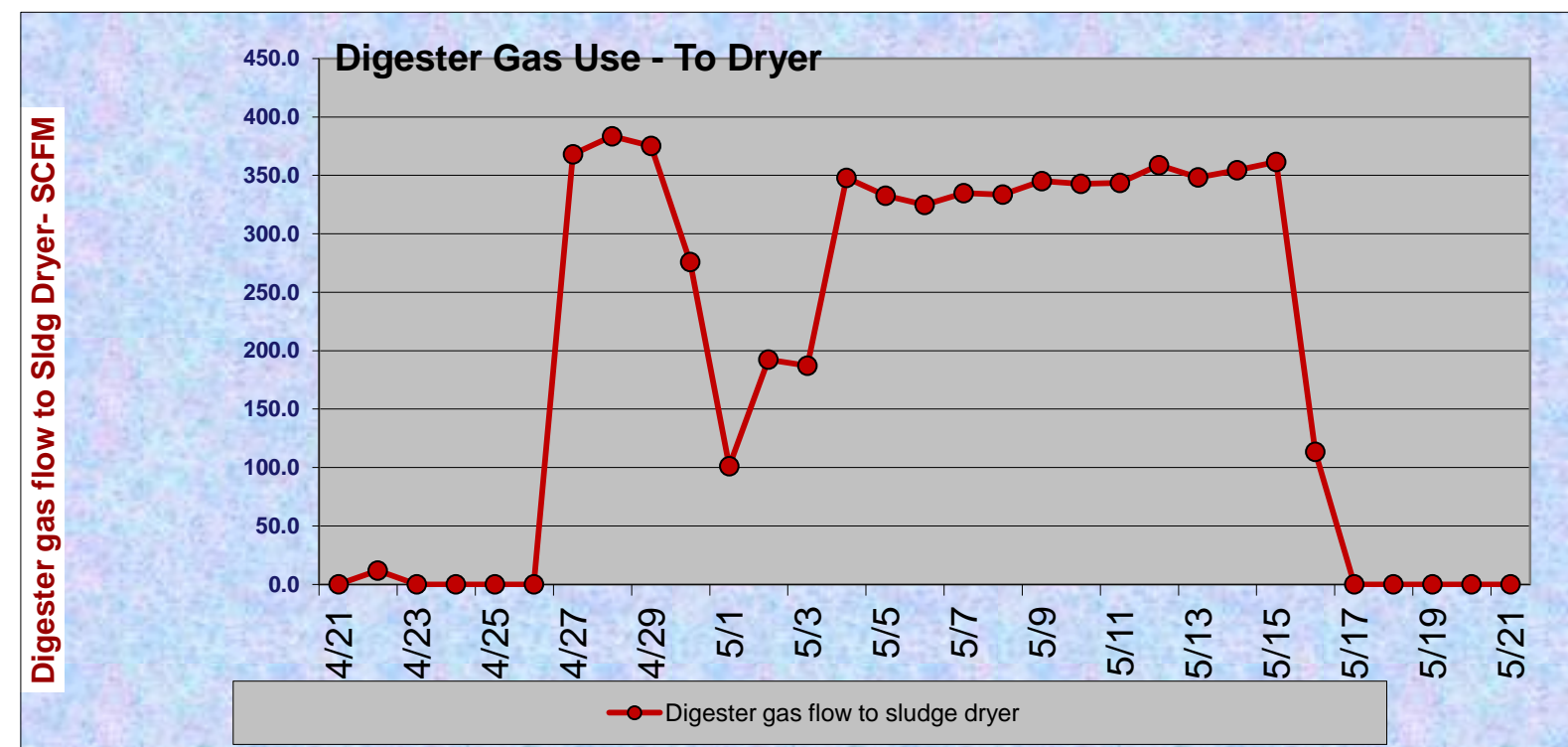
Biogas Delivery & Use

- Gas conditioning
- Extensive pipe system from digesters to dryer
- Membrane cover – 8 hour “cushion” of gas
- Dryer feed matches gas production



“Green” Energy Savings

- Digester gas replaces 80 to 100% of purchased natural gas to fuel the dryer
- Reduces 200 – 300 therms/ hour NG use
- Annual Savings: ~\$500,000
- Equivalent of ~900 MN households’ annual natural gas use



CenterPoint Rebate

- First CenterPoint Energy custom rebate for anaerobic digester construction project
- MCES available as resource for other projects
- Document use and construction costs
- Demonstrate for 6 months on biogas



Biogas—Renewable Energy

