CASE STUDY

Pasco Resource Recovery Center

Turnkey design, build, finance, and operation of state-of-the-art wastewater treatment and reuse facility.

OVERVIEW

The Pasco Resource Recovery Center ("PRRC") is a partnership between Burnham and the City of Pasco to expand the city's industrial wastewater treatment capabilities.

This new facility turns industrial process water into clean water, generates Renewable Natural Gas ("RNG"), and helps the region grow agribusiness jobs and opportunities as it emerges as a leading center for food production and processing.

CHALLENGE

Pasco's Process Water Reuse Facility (PWRF) lacked capacity to meet growing industry and environmental needs.

The PWRF was at capacity.

The 25+ year-old facility could not process more wastewater without significant upgrades, inhibiting the growth of the agribusiness industry in the region.

Support of the food processing industry's growth required a new facility.

Strong environmental performance is critical to industry and regional growth: Processors, consumers, regulators, and the local community are continuously increasing expectations around sustainability performance.

THE SOLUTION

A new facility with increased capacity and improved environmental impact.

The facility meets demand, reuses water, optimizes nutrients, and produces clean energy:

- Fully treats wastewater, enabling hundreds of millions of gallons of water reuse.
- Reduces wastewater treatment costs and emissions by capturing biogas generated through anaerobic digestion and converting it to RNG.
- Substantially mitigates odors.
- Removes excess nutrients from the wastewater.

Meets Current & Future Opportunities

- Provides capacity to meet current and future growth in the food processing sector.
- Supports continued long-term markets in Pasco for the local agricultural industry with a long-term, sustainable investment in water treatment.

THE RESULTS

1.5+ BILLION

Gallons of water reused annually, supporting eight area food processors.

18 MONTHS

To achieve Commercial Operating Date; on time and operational since 2024.

4,500 HOMES

Worth of clean energy produced annually via RNG, helping to sustainably offset treatment costs.

FULL COMPLIANCE

Full regulatory standards achieved, earning a 2024 Wastewater Digest Top Project Award.

Interested in learning more?

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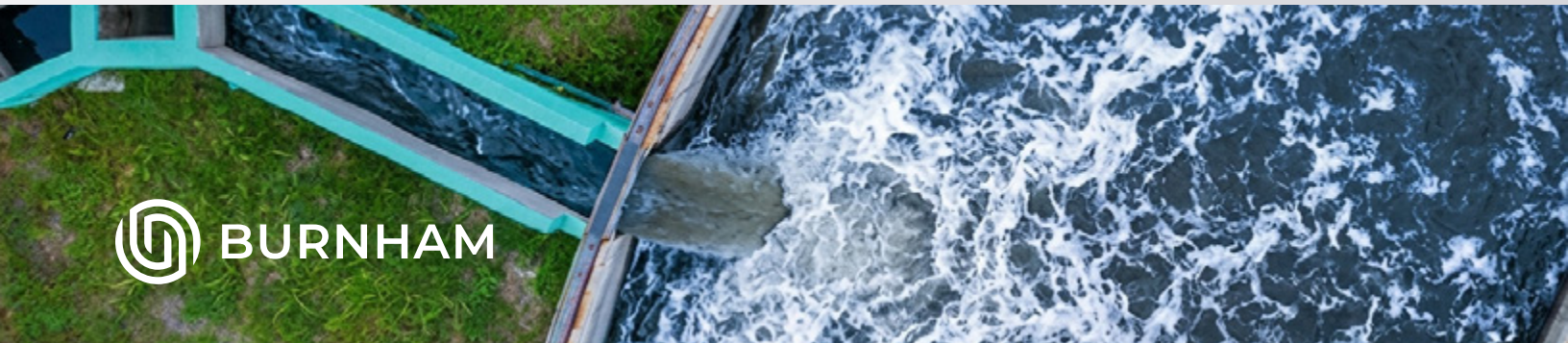
Burnham is solving the $200 billion water infrastructure funding gap. We partner with public utilities to solve challenges including water scarcity, non-compliance, capacity constraints, and rising costs. Using our Collaborative Delivery Model, Burnham partners with public utilities to transfer risk and guarantee the best long-term outcome, executing end-to-end: design, build, finance, operate, and maintain, with no upfront capital outlay and delivery up to 30% faster than Design-Bid-Build. Burnham is one of Inc. Magazine's fastest growing companies and a Wastewater Digest Top Project award recipient.