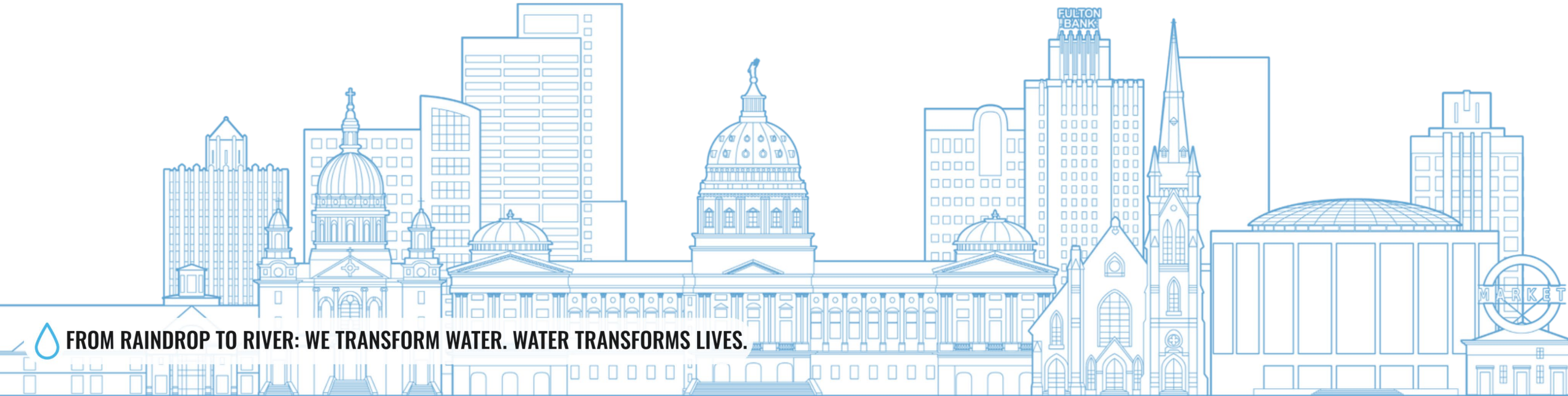
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WATER

Energy Recovery Improvements Project

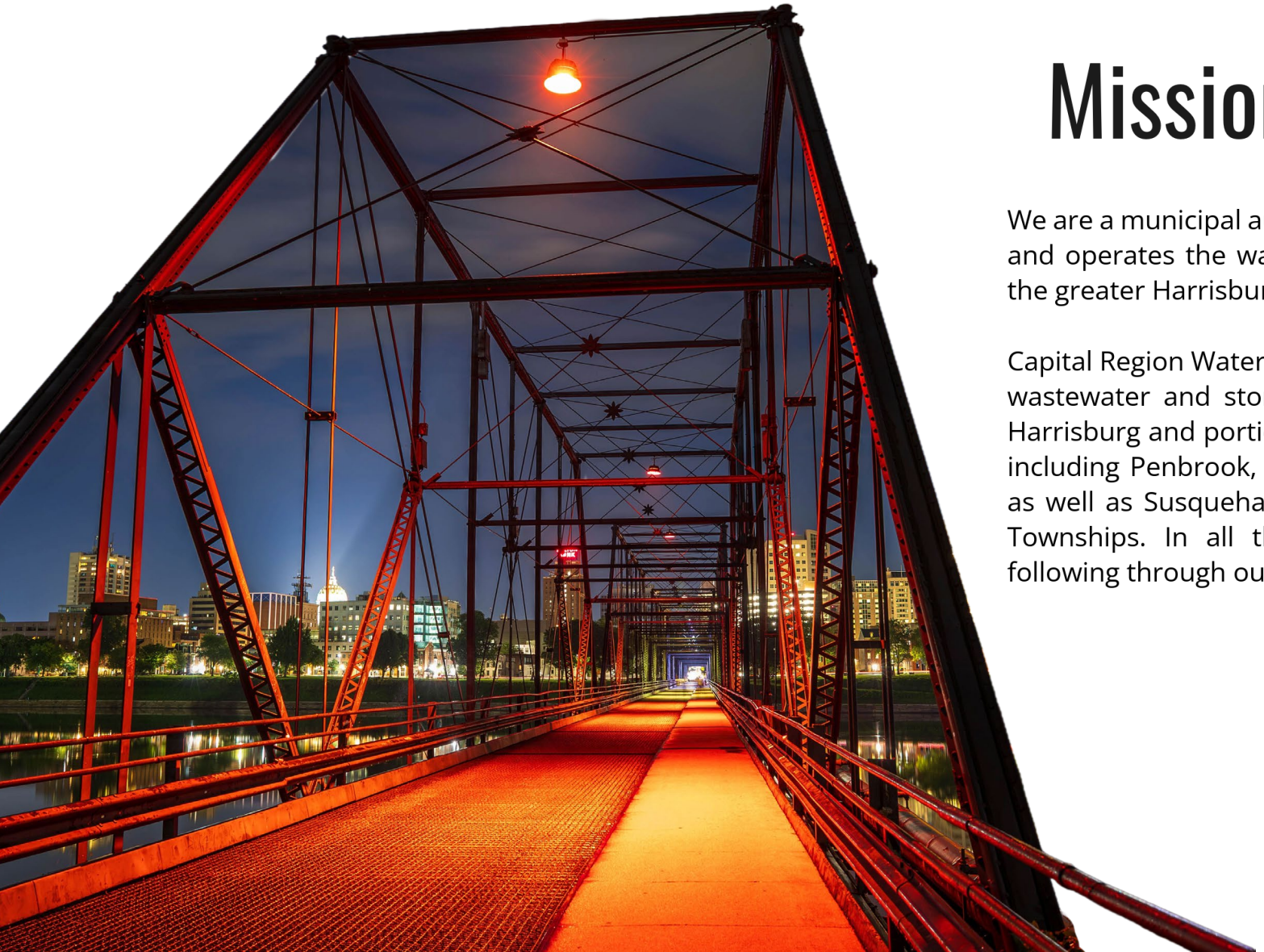
Chesapeake Bay Commission

November 13, 2026



FROM RAINDROP TO RIVER: WE TRANSFORM WATER. WATER TRANSFORMS LIVES.

FROM RAINDROP TO RIVER: WE TRANSFORM WATER. WATER TRANSFORMS LIVES.



Mission & Values

We are a municipal authority that improves, maintains, and operates the water system and infrastructure of the greater Harrisburg area—from raindrop to river.

Capital Region Water is the steward for drinking water, wastewater and stormwater services for the City of Harrisburg and portions of surrounding municipalities including Penbrook, Paxtang, and Steelton Boroughs, as well as Susquehanna, Swatara, and Lower Paxton Townships. In all that we do, we commit to the following through our core values:

01

FLOWING TOGETHER

UNITY AND TEAMWORK

02

OPERATING CRYSTAL CLEAR LIKE WATER

TRANSPARENCY & ACCOUNTABILITY

03

KEEPING IT CLEAN DOWNSTREAM

ENVIRONMENTAL CONSCIOUSNESS

04

TAPPING INTO COMMUNITY

COMMUNITY FOCUS

05

ENSURING EVERY DROP COUNTS

FISCAL RESPONSIBILITY

CAPITAL REGION WATER

2026 ENERGY VISION

LEADERSHIP AWARD RECIPIENT

Awarded to Capital Region Water - October 15, 2026 – New York, NY

Transforming wastewater biogas into pipeline-quality renewable natural gas.



A win powered by CRW employees

Persistence • Innovation • Teamwork

From Raindrop to River: We Transform Water. Water Transforms Lives.



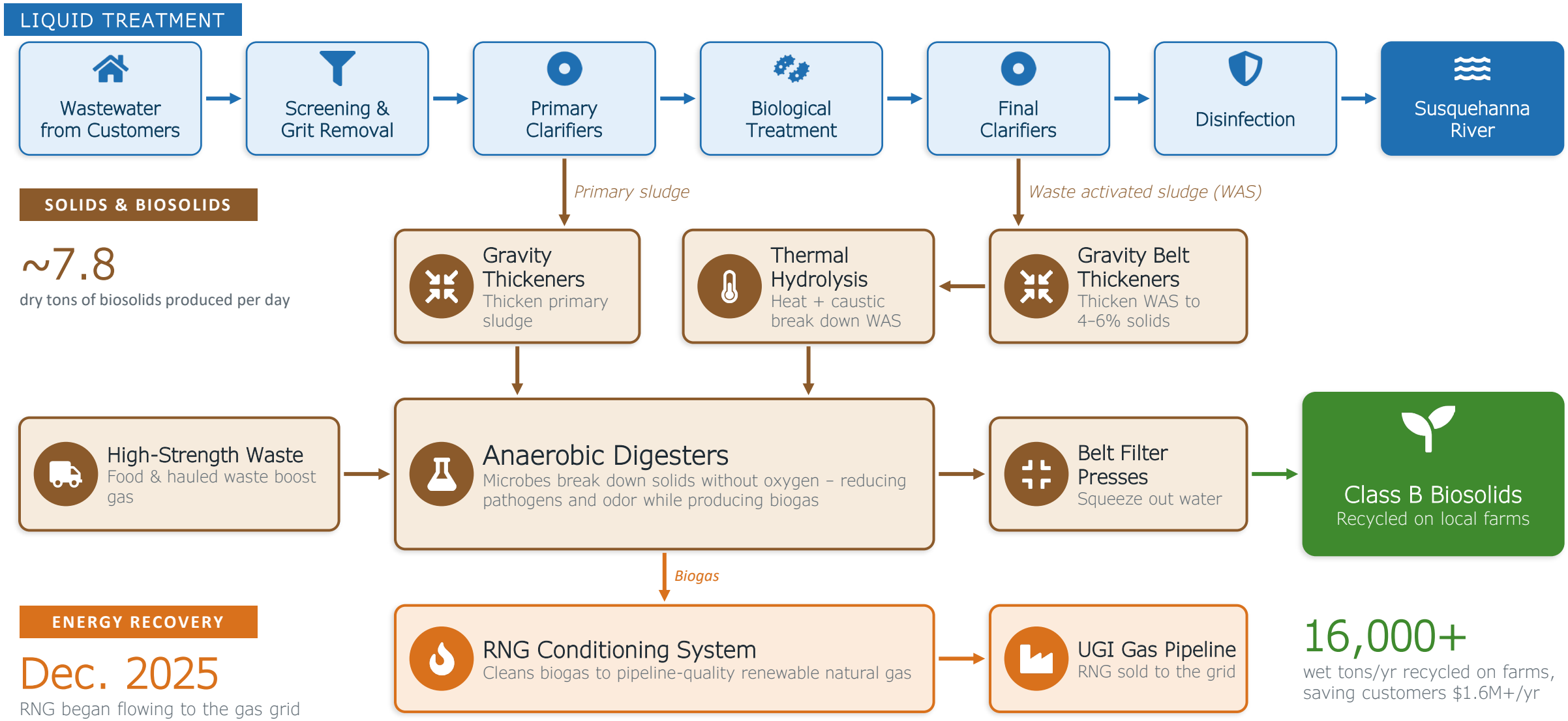
Advanced Wastewater Treatment Facility

37.7 MGD Design Capacity

CRW's Advanced Wastewater Treatment Facility treats can treat peak flows of 80 MGD, making it one of the largest treatment facilities in Pennsylvania's Chesapeake watershed.

From Wastewater to Resources: AWTF Solids Treatment

Capital Region Water | Advanced Wastewater Treatment Facility | Simplified Process Flow



Simplified schematic for illustration only; not to scale.

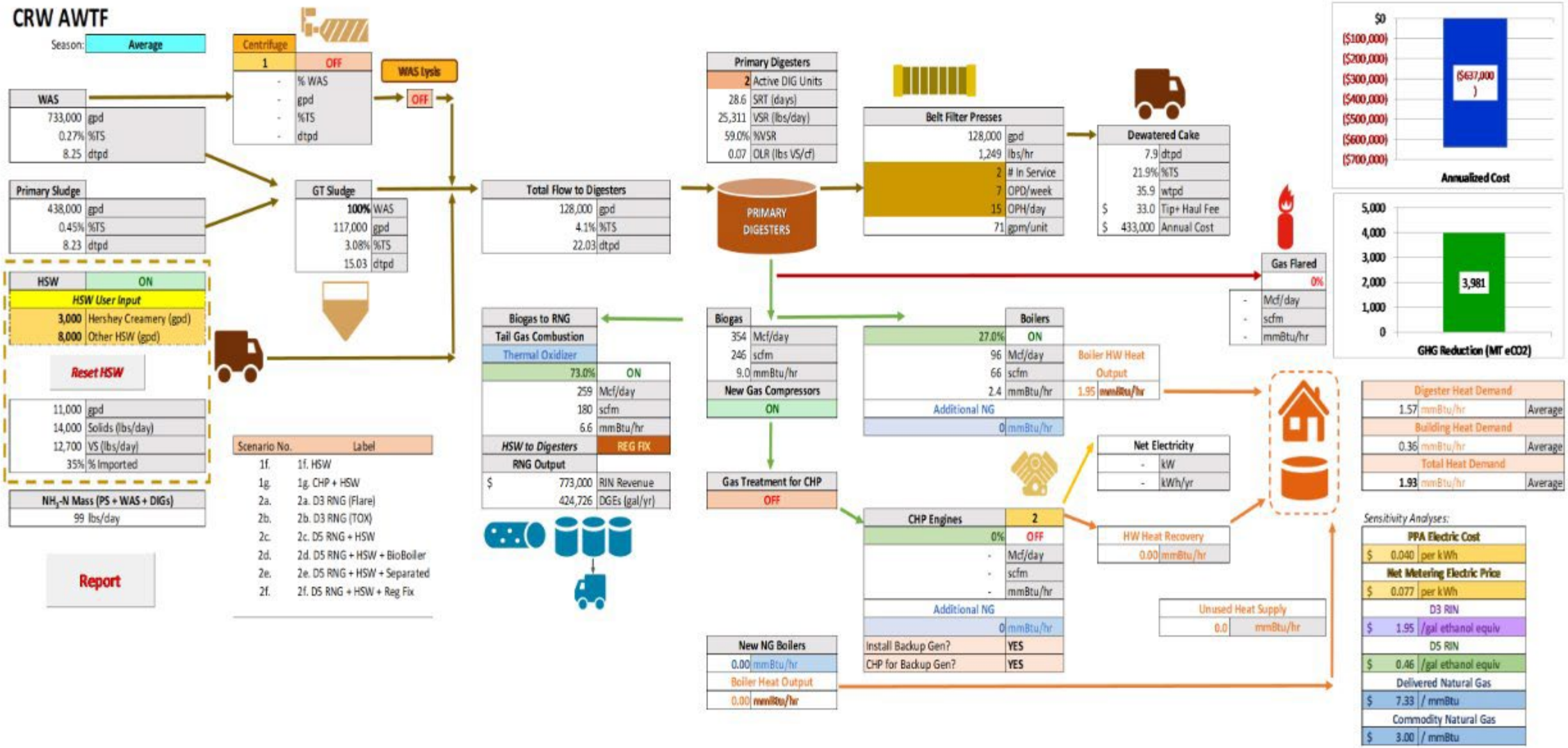


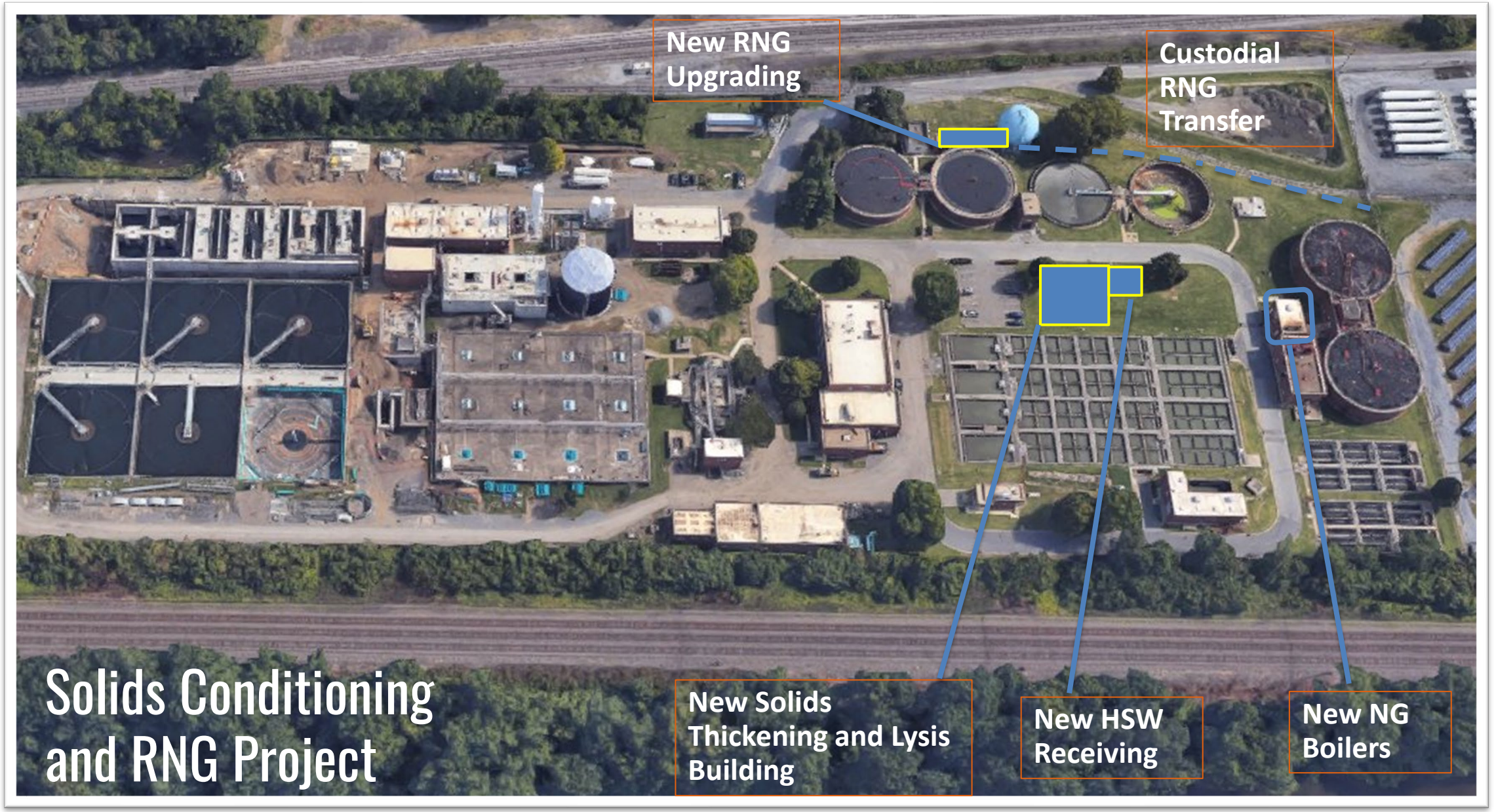
Old Biogas Utilization

Combined Heat & Power

- Biogas generators commissioned in 1984
- 2 x 400 kW back to grid
- Thermal Water Jackets for Heat Recovery
- Generation of Renewable Energy Credits

Solids and Energy Flow Model




New RNG Upgrading
Custodial RNG Transfer
Solids Conditioning and RNG Project
New Solids Thickening and Lysis Building
New HSW Receiving
New NG Boilers

Project timeline: bid to substantial completion

The gas milestone arrived first. Final solids commissioning and closeout followed.



The schedule was deliberately re-sequenced to protect the year-end gas and tax-credit milestone.

Now the focus shifts: feed the digesters

The new HSW receiving system turns local organic residuals into more biogas and more non-rate revenue.

HIGH-STRENGTH WASTE

Food and industrial organic residuals with concentrated biodegradable material



More organic loading

More tipping fees + more biogas

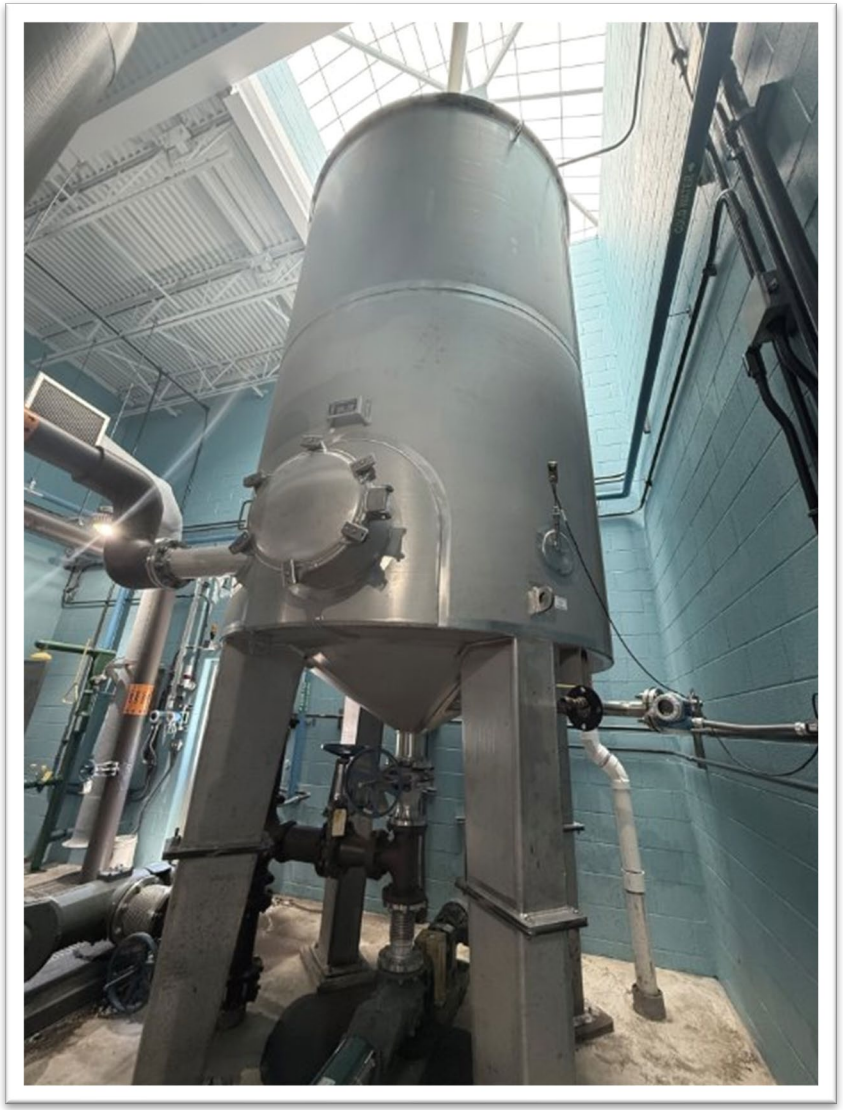
1. **Find reliable feedstocks** — Build relationships with local generators and haulers.
2. **Screen for fit** — Protect digestion, biosolids quality, permits, and equipment.
3. **Ramp deliberately** — Increase loading while tracking stability and gas response.
4. **Measure the value** — Tie gallons received to tipping revenue, gas yield, and net benefit.

Solids Conditioning Building



Maximizing Biogas Production





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RNG Equipment

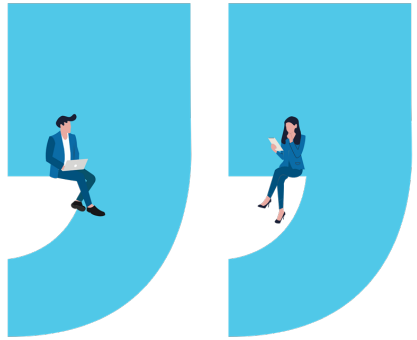


High Strength Waste Receiving



Lessons Learned

- Consider a decision-making tool (Solids and Energy Flow Model).
- Sell your project to staff in its infancy, not when construction begins.
- Be Ready to Pivot!
  - Equipment Costs post-Covid
  - Large fluctuations in commodity and credit values and potentially with the political and regulatory environments.
- Keep your Board/Upper Management well informed at regular frequencies in case bold actions are required.



"This represents a fundamental shift in the way we manage public water resources for the next century."



Charlotte Katzenmoyer
CEO, Capital Region Water



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