Pinellas County Solid Waste
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Our Vision: To Be the Standard for Public Service in America
The mission of Pinellas County Solid Waste is to provide safe, competitive, and environmentally sound integrated solid waste services to our residents, visitors and businesses.
Pinellas County is 95+% built-out, extending landfill life is a critical long-term strategy
Commitment to long term disposal service for community
WTE is the best option to meet this commitment
WTE operator selected in 2014, provided plant metrics from that point in time and forward
Highlights of Service Agreement

- **Technical Recovery Plan (TRP)**
  - Initially defined projects
  - Six month operating period to identify additional repair or replace projects
  - Relax performance guarantees during TRP

- **Share of Revenues**
  - Electrical sales
  - Capacity
  - Metals

- **Alignment with Power Purchase Agreement**

- **Initial Operating Period**
  - Relaxed performance guarantees
  - Extended for additional projects
  - Scaled additional maintenance fee
PPA ends in 2024 with nearly $500M in capacity payment’s due

PPA requires 70% Capacity Factor guarantee, actual Capacity Factor had fallen to 75% in 2014

Why re-investment in facility? Provide at least another 30+ years of operation

Maximize valuable landfill life

More economical than building new WTE, transferring waste out-of-County, etc.

Existing on-site water treatment is available for reuse for WTE Operations.
Technical Recovery Plan (TRP) Development

- EOR assessment of facility condition
- Predefined equipment/systems requiring repair/replace
- Six month period for operator to assess equipment and systems
- Develop process for construction administration
- Projects acceptance
- Mutual agreement on additional TRP projects
- Additional TRP projects exceeded stated value in Service Agreement
- Service Agreement amendment, increase cost limit and TRP term
- Transition from cost-substantiation to lump sum
- Pinellas County Commission unanimously agreed to increased cost and initial operating period
TRP Implementation

- Approximately 260 projects identified
- Replacement project incorporated improved technology such as Inconel Overlay, SDA hopper ceramic spray coating, turbine steam path efficiencies, etc.

Major projects included:
- Replacement of 3 overhead refuse cranes
- Replacement of stoker transfer frame and grate system, in addition to the combustion control system
- Replacement of flyash transfer system
- Replacement of all SDA hoppers (with 1 SDA hopper with sprayed ceramics)
- Replacement of all boiler pressure parts. All water wall with spiral wound Inconel overlay
- SDAs rebuild with Hasteloy liner from bottom of hopper to top of shell
- Cooling Tower rebuilt
TRP Implementation (Continued)

- Fire Protection system replacement including fire alarm system (most underground moved to above ground)
- Bypass condenser replacement
- Surface condenser rebuild
- Electrical (transformers, TG bus, cable trays, conduits, other)
- Mechanical systems
- Structural steel refurbishment and replacement

- **Cost to date:** $198.2M
- **Cost to complete:** $45.1M
- **Completion schedule:** Fall 2021
TRP Impacts

- Capacity Factor January 2013: 75.39%
- Capacity Factor June 2019: 96.2%
- Gross electrical generation January 2013: 515.92 kWh/ton
- Gross electrical generation June 2019: 605.12 kWh/ton
- Boiler availability January 2013: 83.5%
- Boiler availability June 2019: 95.8%
- Other Impacts
  - Improved overall condition of facility
  - Improved housekeeping and cleanliness
  - Improved aesthetics
  - Improved operator morale
  - Improved environmental performance
Next on the Horizon

- Renegotiate PPA
- WTE Service Agreement Amendment
- Enhanced metals recovery and evaluation of future ash recycling
- Awaiting Master Plan completion to evaluate recommendations (refuse pit expansion, increased bulky waste processing, regional partnership opportunities, etc.)
- Explore electric power wheeling from WTE to other County facilities