Landfill Gas Utilization Project

Virtual Pre-Proposal Site Visit

August 20, 2020
Steuben County

- Meeting Being Recorded
- All Participants are to remain muted
- Meeting Format
  - Presentation
  - Q&A
    - Questions Must Be Provided in Chat box (bottom panel of zoom) or can be submitted in writing to Andrew Morse
Project Team

• Steuben County
  • Vincent Spagnoletti, Commissioner of Public Works
  • Steve Orcutt, Asst. Commissioner of Public Works, Landfill Division

• Steuben County Director of Purchasing
  • Andrew G. Morse

• Consultants
  • Barton & Loguidice, DPC
    • Sean Sweeney, P.E.
    • Cory McDowell, P.E.
    • Luann Meyer
  • Environmental Attribute Advisors LLC
    • Denise Farrell
Steuben County

- Owned and Operated Solid Waste and Recycling Facilities since 1978
  - Three separate landfills
  - Turnpike Road, Town of Bath
- Accepts 150,000 tons of waste annually
- Site’s Permitted Daily Intake is 850 tons per day
- LFG-E Facility
  - Steuben Rural Electric Cooperative Agreement – 2009
    - Develop a LFG-E Facility at landfill site
  - County Purchased LFG-E Facility and Rights to LFG facilities, equipment and appurtenances in 2019
    - Exception: SREC owns and maintains the electrical interconnection
Project Overview

- RFP Issued July 24, 2020 for Landfill Gas Utilization Project
  - #GC-20-017-P
  - Seeks proposals from experienced, successful landfill gas developers to purchase landfill gas (LFG) from the Steuben County landfill facilities

- Pre-Proposal Virtual Site Visit – August 20, 2020

- In Person Site Visit – August 25, 2020
  - Must follow NYS Covid-19 Travel Advisory guidelines

- Questions will be accepted until Thursday, August 27, 2020
  - Must be submitted in writing to Andrew G. Morse
  - No questions will be accepted after this date.

- Proposal due by 1:30 PM local time, September 18, 2020
Project Overview

- https://vimeo.com/445649090/e1e53966f0
LFG-E Facility Overview

• Generator No. 1: Caterpillar G3520C 1.6 MW Serial GZJ00382
  • 59,366 hrs
  • Turbo changeout 12/04/18
  • Inframe Overhaul - 11/14/17

• Generator No. 2: Caterpillar G3520C 1.6 MW Serial GZJ00367
  • 59,535 hrs
  • CCO - 11/19/2018
  • Inframe Overhaul - 10/29/17
LFG-E Facility Overview

- 3.2 MW Facility

- 4,500 sq. ft. building which is comprised of a gas skid room, engine room and engine control area

- LFG Quality – New Bath Landfill
  - 47-50% methane
  - 0.5-0.8% oxygen
  - ~750-900 scfm
LFG-E Facility Overview
LFG-E Facility Overview
See notes in RFP
## Table 2
2020-2045 LFG Collection Projection Summary

<table>
<thead>
<tr>
<th>Year</th>
<th>Projected LFG Generation (cfm)</th>
<th>LFG Collected - assuming 85% CE (cfm)</th>
<th>LFG Collected (MMcf)</th>
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Average: 1,111
Total: 15,180.3

See notes in RFP
Natural Gas Pipeline Location
Natural Gas Storage Facility
Closing and Questions

• Request for Proposal - Landfill Gas Utilization Project Document #GC-20-017-P

• Voluntary In Person Site Visit – August 25, 2020
  • Must follow NYS Covid-19 Travel Advisory guidelines

• Questions will be accepted until Thursday, August 27, 2020
  • Must be submitted in writing to Andrew G. Morse
  • No questions will be accepted after this date.

• FILE DAY, DATE & TIME: Friday, September 18, 2020; 1:30 P.M. local time. Submission may be mailed or hand delivered.

• SUBMIT TO: Andrew G. Morse, Director of Purchasing Steuben County Purchasing Department 3 East Pulteney Square Bath, New York 14810