

Littleton/Englewood Wastewater Treatment Plant

BIOGAS USE APPLICATIONS

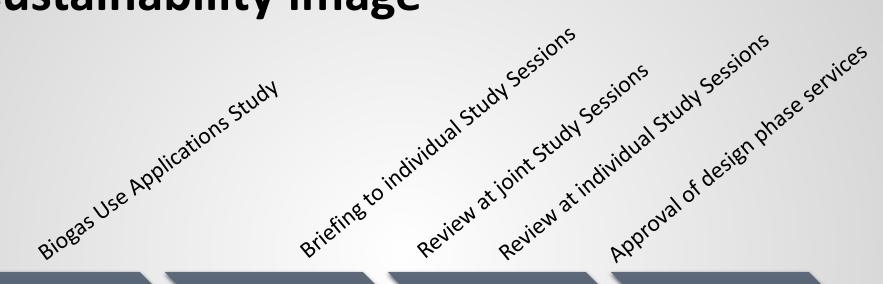






Biogas Project elevates the Cities sustainability image





Q1 2017 Q2 2017 Q3 2017 Q4 2017

Discussion Today:
Recommended Financing Approach



Financing approach drives procurement and design approach

Financing Approaches



Cities co-fund (cash finance)



Other Financing Instruments (Municipal Lease)



- Common financing tool
- No upfront capital \$
- Annual lease payments
- Risk managed
- Termination w/o penalty



Financing approach drives procurement

and design approach

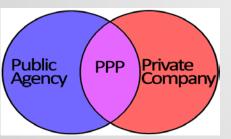
Financing Approaches



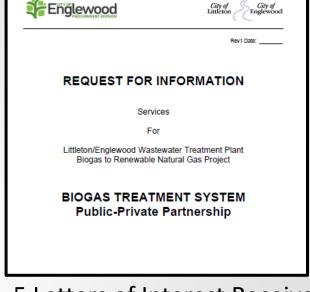
Cities co-fund (cash finance)



Other Financing Instruments



Third party financing



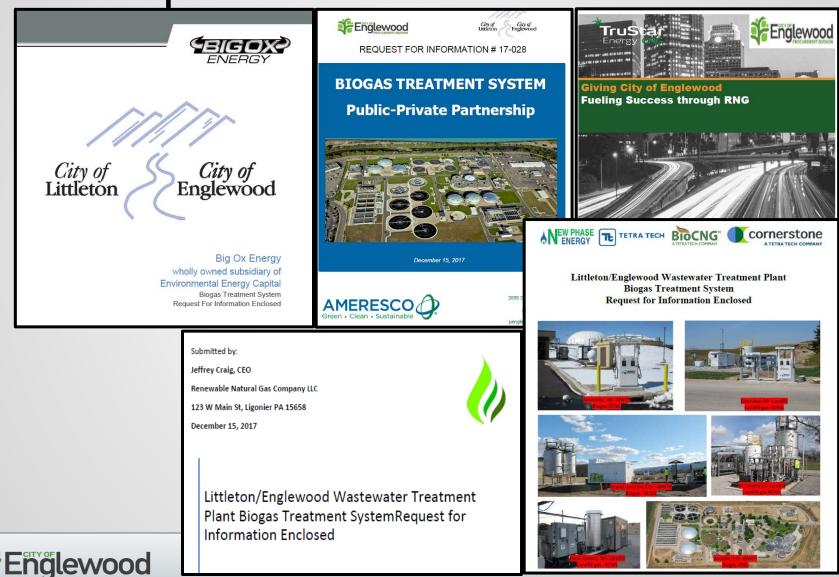
5 Letters of Interest Received:

- Market and project risks
- Partnership approach
- Financing options



Financing and procurement feedback from respondents





Respondents input on project risk



Risks Identified:

1. Market risk

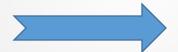
- RIN pricing and credits
- RNG market demand



All respondents said "RNG market viability strong today and will be sustained into the future"

2. Project risk

- Technology selection
- Constructability
- Regulatory



Managed through experienced team and clear definition

3. Operations risk

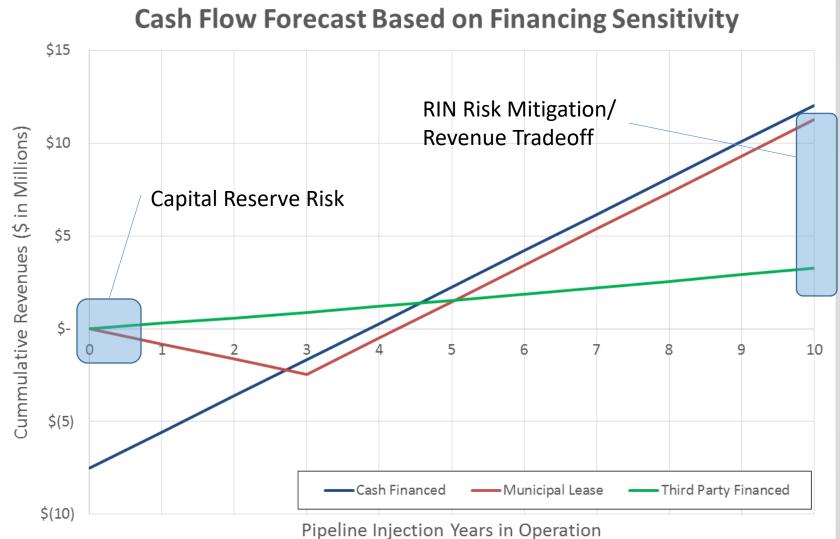
- Changing infrastructure
- Digester gas supply



Longer-term agreement desired. No penalties identified for lower gas production.









Cash financing provides best risk/value proposition



- 1. Capital Reserve Risk not a major factor
 - Both City's have adequate Capital Reserves to fund Project
- 2. Third Party Financing Mitigates RIN Risk, but comes at significant cost
 - ~\$9 million of lost revenue over 10 years
 - 10 year minimum agreement length
 - Time to Market is best defense against RIN Risk
- Municipal Lease provides risk mitigation at low cost, if utilized
 - Neither City likely to invoke their use
- 4. Cash Funding Recommended by Supervisory Committee and Both Cities Finance Directors
 - Fastest to Market
 - Highest Revenue Generation
 - RIN Market is endorsed by private Industry
 - Capital Reserves Available



Project commissioning by mid 2019



Project Schedule - Council

- 1. Present recommended financing approach: January 2018
- 2. Approval of agreements and appropriations: Q3 2018
 - Reserve Impact forecast
 - RIN Broker
 - Xcel gas quality and purchase agreement
 - Digester gas cleaning equipment
 - Construction Contractor





Questions?





