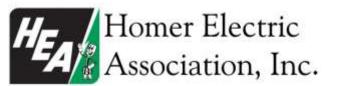
Homer Electric Association

Kenai Peninsula Borough Assembly Meeting

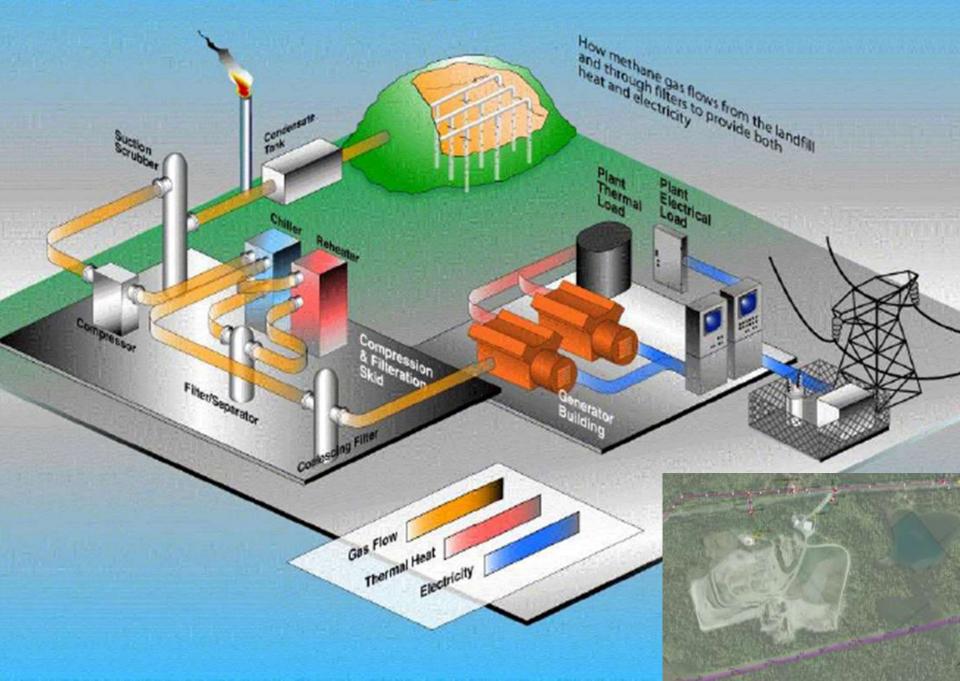


Landfill Gas



January 2, 2018 Mike Salzetti

andfill Gas to Energy



Landfill Gas Utilization Feasibility Study

FINALREPORT

Central Peninsula Landfill Landfill Gas Utilization Feasibility Study

Prepared for

Kenai Peninsula Borough

June 23, 2016

ch2m:

949 E 36 Avenue, Suite 500 Anchorage, AK 99508

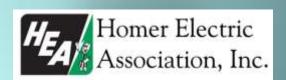
	Capital Cost	Average Annual O&M	Annual Revenue/ Savings	NPV, 20-year life
Option 1 - Direct Use On Site in a LFG Fired Boiler	(\$1,022,120)	(\$176,910)	\$190,606	(\$851,443)
Option 2a + LFG Piping to CPL Evaporator and Boilers and from CPL to Boiler at Skyview MS	(\$3,057,481)	(\$268,939)	\$252,136	(\$3,266,886)
Option 3 — Engine Gen Set at CPL Without Exhaust Heat	(\$3,486,593)	(\$362,353)	\$1,206,381	\$7,031,857
Option 4 – Engine Gen Set at CPL, Utilize Exhaust Heat	(\$3,503,636)	(\$381,191)	\$1,260,381	\$7,453,011
Option 5 – Remove CO2 and Trace Gases and Inject to ENSTAR Pipeline	(\$823,141)	(\$284,625)	\$376,178	\$317,807
Option 6 – Transport LFG Off Site in Pipeline to Gen Set at Skyview MS	(\$4,724,551)	(\$496,420)	\$1,206,381	\$4,123,128

Memorandum of Agreement

(Subject to Funding)

- Conceptual Design
- Cost Estimate
- Financial Feasibility Analysis
- Project Schedule
- Draft Gas Sales & Waste Heat Exchange and / or Purchase Agreement
- Draft Contract between KPB & AEEC outlining the terms for the design & construction of the proposed facilities
- Draft Operations and Maintenance Agreement





Additional Fuel / Renewable Natural Gas

Smart Energy



Reduced GHG







