

**The Mini-GTL Zero Flare Solution that captures
100% of Associated Gas Flaring at the Wellhead
and Converts it to Biodegradable and
Environmentally Safe
Liquid Fuels and Chemicals**

Submitted by:

GasTechno Energy and Fuels

❑ Request for \$600,000; Total Project Costs \$2,800,000

PROJECT DESCRIPTION

- GEF has developed a proprietary, single-stage process for conversion of natural gas to liquids in the patented GasTechno process. The single step GasTechno process can be deployed remotely at miniature and small-scales since it eliminates the costly pretreatment, reforming and syngas steps by converting the associated gas directly into methanol and higher-value oxygenates via a patented direct partial oxidation process. GasTechno will implement a full lifecycle Zero Flare Solution that will eliminate associated gas flaring via conversion to commercially saleable liquid chemicals at the wellhead in North Dakota to meet the regulatory requirements.

TECHNICAL REVIEWERS' RATING SUMMARY

		Technical Reviewer			
Statement	Weighting Factor	<u>G-33-03A</u>	<u>G-33-03B</u>	<u>G-33-03C</u>	<u>Average Weighted Score</u>
Objectives	9	3	4	4	27
Achievability	7	2	4	2	14
Methodology	8	2	5	4	24
Contribution	8	3	3	4	24
Awareness / Background	5	3	3	4	15
Project Management	3	2	4	4	9
Equipment / Facilities	2	2	4	4	6
Value / Industry-Budget	4	3	4	4	12
Financial Match – Budget	4	4	4	4	16
<i>Average Weighted Score</i>		134	195	186	171
<i>Maximum Weighted Score</i>				250 possible points	

TECHNICAL REVIEWER TOTALS

- G-33-03A

Average Weighted Score: 134 out of 250

FUNDING TO BE CONSIDERED

- G-33-03B

Average Weighted Score: 195 out of 250

FUND

- G-33-03C

Average Weighted Score: 186 out of 250

FUND

DIRECTOR'S RECOMMENDATIONS

To fund in the amount of \$350,000 with the following contingencies:

- **Written agreement with an oil producer to install at least 1 unit at one of their sites;**
- **Written agreement with natural gas liquids purchasing company;**
- **Applicant identifies and demonstrates to the Department of Mineral Resources staff that they will meet the conditions of the State's Gas Capture Order (Order #24665)**