



Walter Breidenstein, CEO
North Dakota Leads The Mini-GTL Revolution
January 5, 2015

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This PowerPoint Presentation is for information purposes only. An investment in our Company may only be made by qualified investors after receipt and review of our private placement memorandum and exhibits thereto.

THE WORLD'S FIRST AND ONLY
SINGLE STEP
NATURAL GAS-TO-METHANOL
CONVERSION PROCESS

PATENTED - TESTED - PROVEN - DEMONSTRATED



THE FLARING PROBLEM



Recent **NDIC** orders now require:

- *Gas Capture Plans for all permits to drill*
- *State gas capture goals as follow:*
 - 74% (October 1, 2014);*
 - 77% (January 1, 2015);*
 - 85% (January 1, 2016);*
 - 90% (October 1, 2020)*
- *Flaring at MER for first 90 days*
- *AFTER 90 days:*
 - gas capture meets or exceeds State*
 - gas capture goals, oil rate is unrestricted;*
 - gas capture is 60% or more, but below state*
 - goal, oil restricted to 200 BOPD*
 - gas capture < 60%, oil restricted to 100 BOPD*

**IN THE FUTURE, GAS
WILL BE CAPTURED.
FAILURE TO CAPTURE
GAS WILL RESULT IN
CURTAILED OIL
PRODUCTION AND
REVENUE.**

GAS FLARING CAN BE COSTLY

Under NEW gas capture rules, this actual strong producing well would have been curtailed 84,000 BO during the first 11 months of production – *losing \$8,400,000 in oil revenue.*

WELL FLARING WITH GAS CONNECTION



ESTIMATED POTENTIAL OIL CURTAILMENT OF STRONG PRODUCING WELL									
BASED ON ACTUAL PRODUCTION HISTORY FROM WELL IN									
DUNN COUNTY, NORTH DAKOTA									
Month	Oil (BO)	Prod Gas (MCF)	Sales Gas (MCF)	Flared Gas (MCF)	% of Gas Captured	Allowable Oil (BO)	Over Production (BO)	Cum Over Production (BO)	Approx. Over Prod Oil Value (\$)
1	8,795	10,846	0	10,797	0.0%	8,795	0	0	\$0
2	35,934	31,053	17,875	12,968	57.6%	35,934	0	0	\$0
3	24,213	23,245	11,464	11,564	49.3%	24,213	0	0	\$0
4	18,623	15,479	8,561	6,918	55.3%	3,100	15,523	15,523	\$1,187,510
5	17,712	13,238	5,957	7,071	45.0%	3,100	14,612	30,135	\$2,305,328
6	16,634	11,999	2,524	9,265	21.0%	3,100	13,534	43,669	\$3,340,679
7	20,158	15,086	13,151	1,725	87.2%	20,158	0	43,669	\$3,340,679
8	12,859	10,766	857	9,755	8.0%	3,100	9,759	53,428	\$4,087,242
9	17,293	15,508	1,337	13,954	8.6%	3,100	14,193	67,621	\$5,173,007
10	12,431	6,270	2,575	3,499	41.1%	3,100	9,331	76,952	\$5,886,828
11	13,501	10,914	7,139	3,558	65.4%	6,200	7,301	84,253	\$6,445,355
	198,153	164,404	71,440	91,074	4	113,900	84,253		

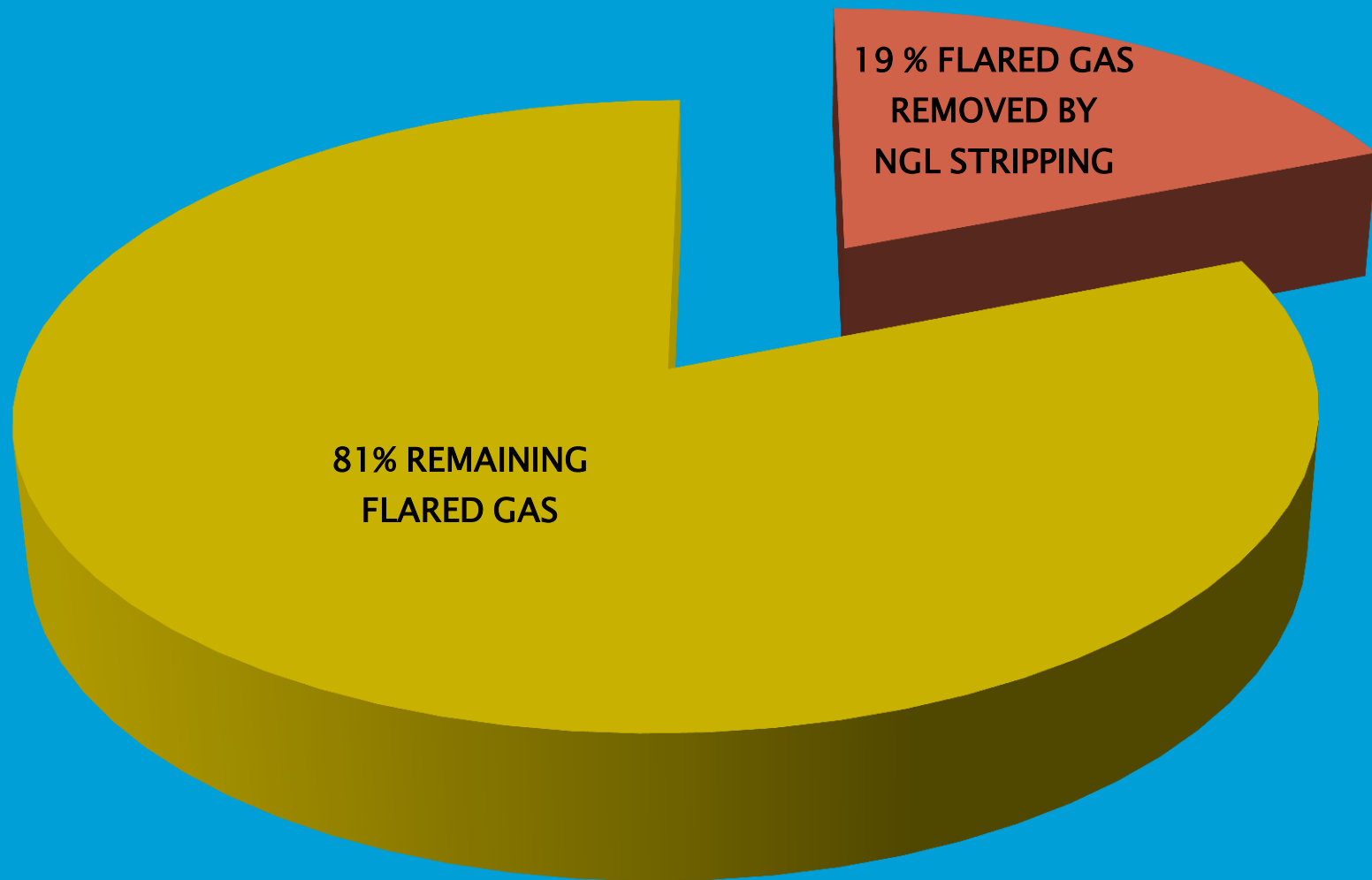
NGL “ON-SITE” EQUIPMENT – 19% FLARE REDUCTION VS. GASTECHNO “ON-SITE” – 100% FLARE REDUCTION

Component	Mole % Feed Gas	NGL Recovery	Flared
Methane	46.87%	0%	100%
Ethane	18.88%	7%	92%
Propane	14.52%	26%	74%
I-Butane	1.72%	61%	39%
N-Butane	6.02%	72%	28%
N-Pentane	2.08%	95%	5%
Hexane	1.62%	100%	0%

Data Bakken Gas Sample

This table clearly shows that a major percentage of the actual feed gas is flared. NGL equipment reduces 19% of the total flared feed gas leaving 81% of the residual to be flared off.

NGL STRIPPING ALONE IS NOT THE SOLUTION!



ONLY GASTECHNO PROVIDES 100% GAS CAPTURE

THE GASTECHNO[®] PROCESS



WORLDS LEADING GAS TO LIQUID TECHNOLOGY

Gas Technologies patents are ranked as No. 1 in Michigan on the Innovation Index by IP valuation firm Ocean Tomo LLC on July 28, 2013.

On the list of **most valuable IP** in 2012 – 13 are:

No 1. Gas Technologies LLC

No 15. Michigan State University

No 49. Dow Global Technologies LLC

No 60. GE Aviation Systems LLC

No 65. General Motors Corp

No 76. Ford Motor Co.

No 78. Union Carbide Chemicals

No 79. ThyssenKrupp

No 100. Delphi Technologies

GASTECHNO & DNV STUDY



GasTechno Engages DNV GL for Technology Qualification Study

Walloon Lake, MI., December 12, 2014 (BUSINESS WIRE)

Gas Technologies LLC, the global leader in small-scale, affordable gas-to-liquids ("GTL") conversion technology, says it has engaged DNV GL to complete a Technology Qualification study of its patented GasTechno® Mini-GTL® process. The small-scale GasTechno® Mini-GTL® unit is ideal for capturing and converting stranded or associated gas from upstream oil and gas fields to high value liquids including methanol. Our Methanol In A Box® Mini-GTL® unit fits within an industry standard 40 foot shipping container which is ideal for remote field applications.

"When we shared our plans with DNV GL on developing a single step methanol process to reduce gas flaring, they recommended the Technology Qualification study as the first step in a potential long-term relationship of utilizing their services. We got excited and committed." says Walter Breidenstein, Gas Technologies CEO.

"We welcome the opportunity to work together with Gas Technologies, whose technology aligns with our own vision to have a global impact for a safe and sustainable future," said Per Sollie, Project Manager for DNV GL. "The industry is wasting vast amounts of natural gas by flaring or directly venting it into the atmosphere every year. We believe that the Gas Technologies Mini-GTL® conversion technology may be one way to implement small scale gas-to-liquids processing in a feasible, safe and cost-efficient manner, ensuring long term efficiency in hydrocarbon utilization and reducing environmental impact and risk."

DNV GL QUALIFICATIONS

- 25 years of experience carrying out techno-economic feasibility studies
- Studies have included processes Gas to Liquids, Methanol, LNG, CNG, etc.
- Clients have included:



THE COMPETITION



GASTECHNO MINI-GTL®	GASTECHNO PORTABLE MINI-GTL®	COMPACT GTL DEMO	VELOCYS FPSO DEMO
40 BBLD	4 BBLD	20 BBLD	6 BBLD
\$2MM CAPEX	\$0.8MM CAPEX	~\$45MM Project	Multi-Millions
125-300 mscfd	15-50 mscfd	200 mscfd	??? mscfd

MOVING TECHNOLOGY FROM THE GARAGE TO THE MARKETPLACE



2007: IDEA



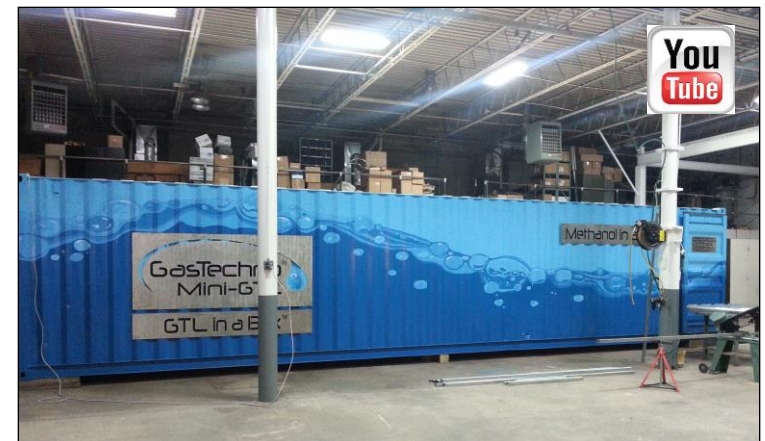
2008: PROTOTYPE



2010/11: PILOT PLANT



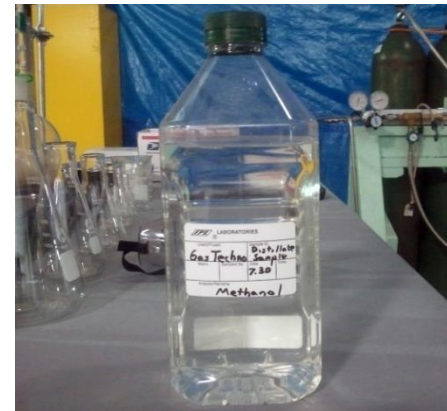
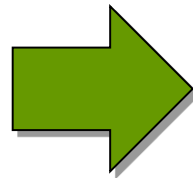
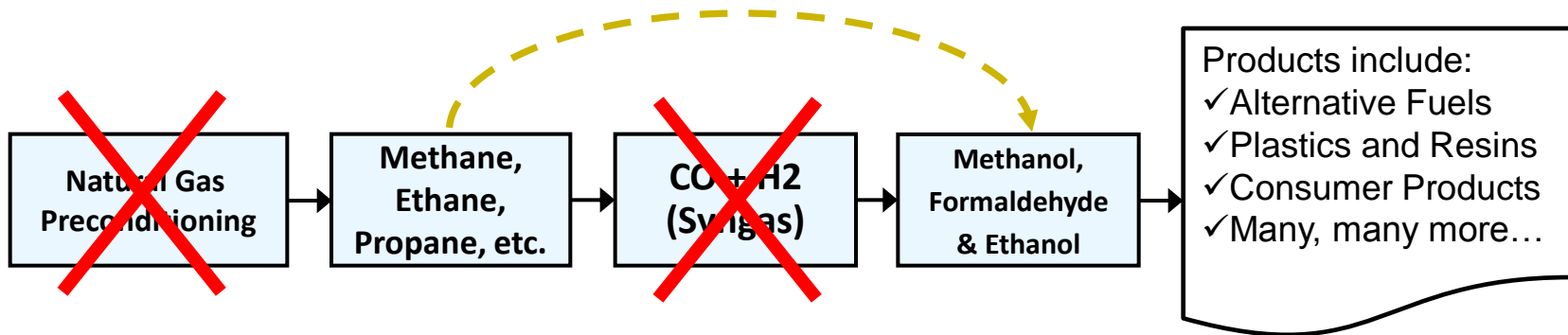
2013: DEMONSTRATION PLANT



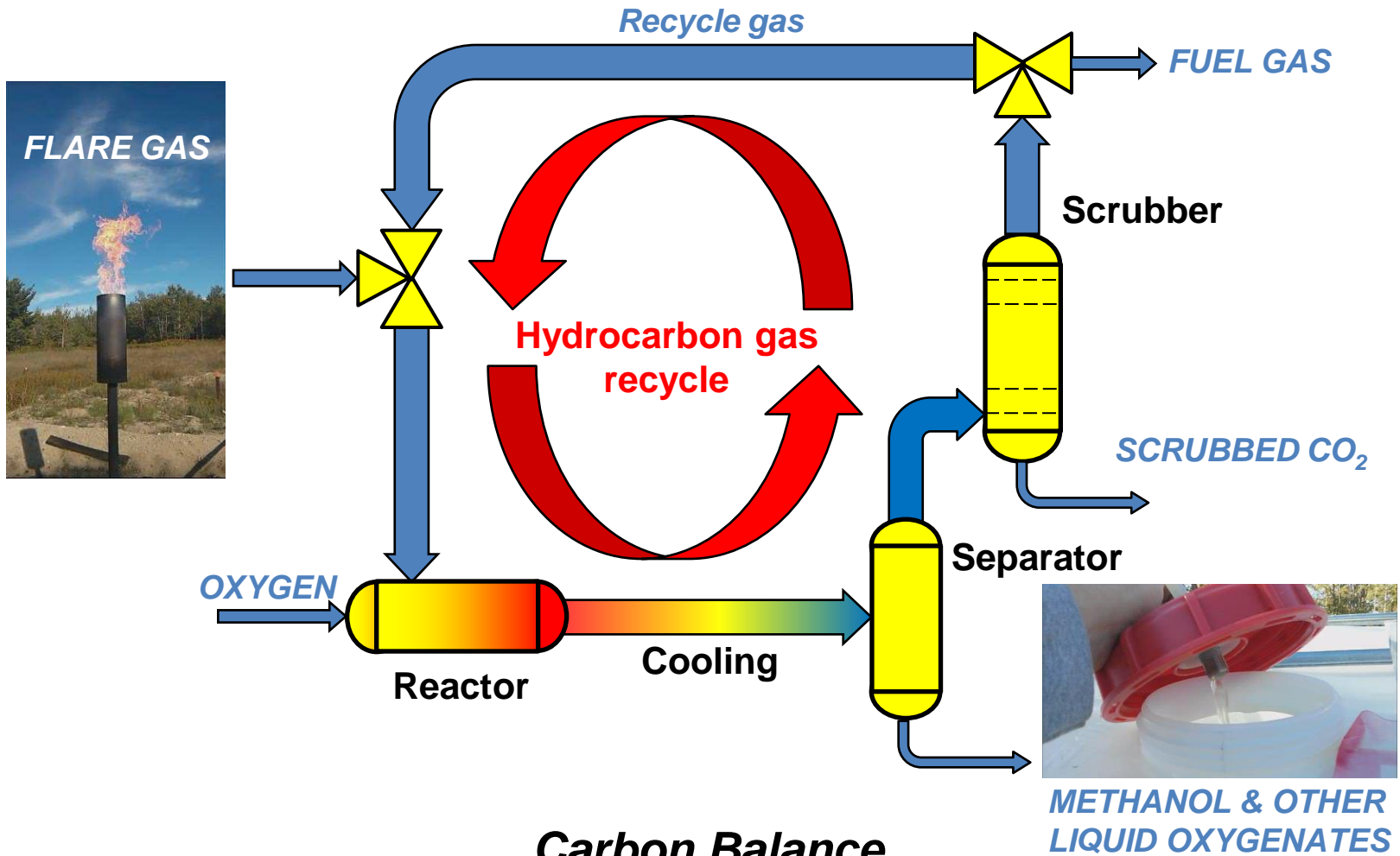
2014: COMMERCIAL PLANT

GASTECHNO® PROCESS

- World's Lowest Gas to Liquid CAPEX
- GasTechno® Platform provides direct conversion of gas



PORTABLE MINI-GTL® OPERATION



Carbon Balance

FLARE GAS 100% = **METHANOL & OTHER LIQUID OXYGENATES** ≈ 60% + **SCRUBBED CO₂** ≈ 5% + **FUEL GAS** ≈ 35%





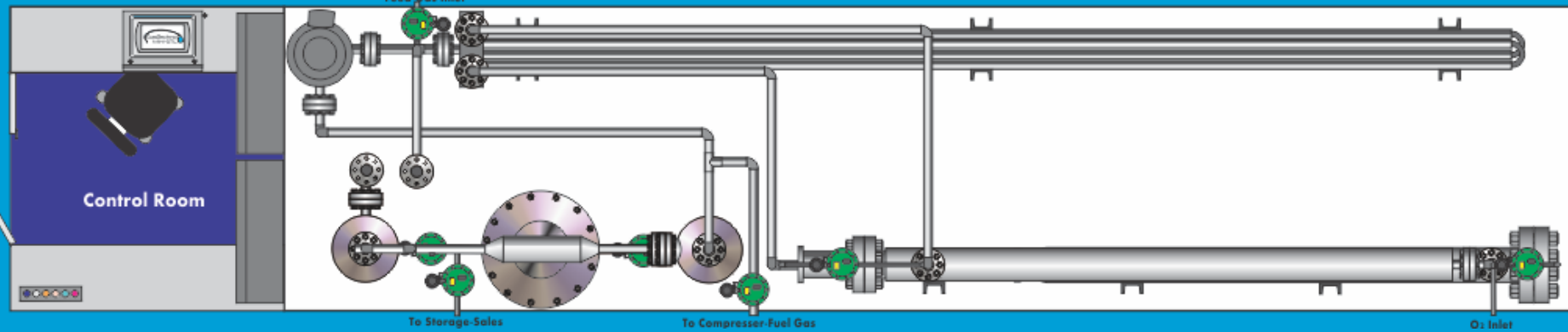
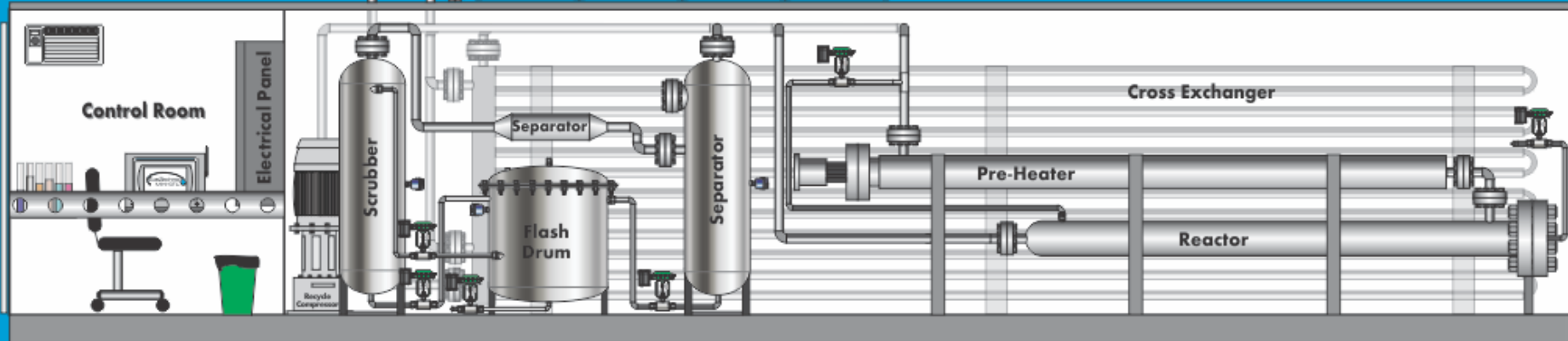
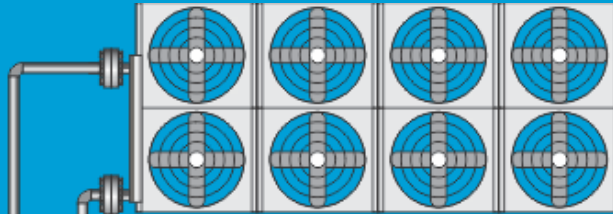
**FIRST COMMERCIAL SCALE
“GTL IN A BOX” MEETS “METHANOL IN A BOX”**

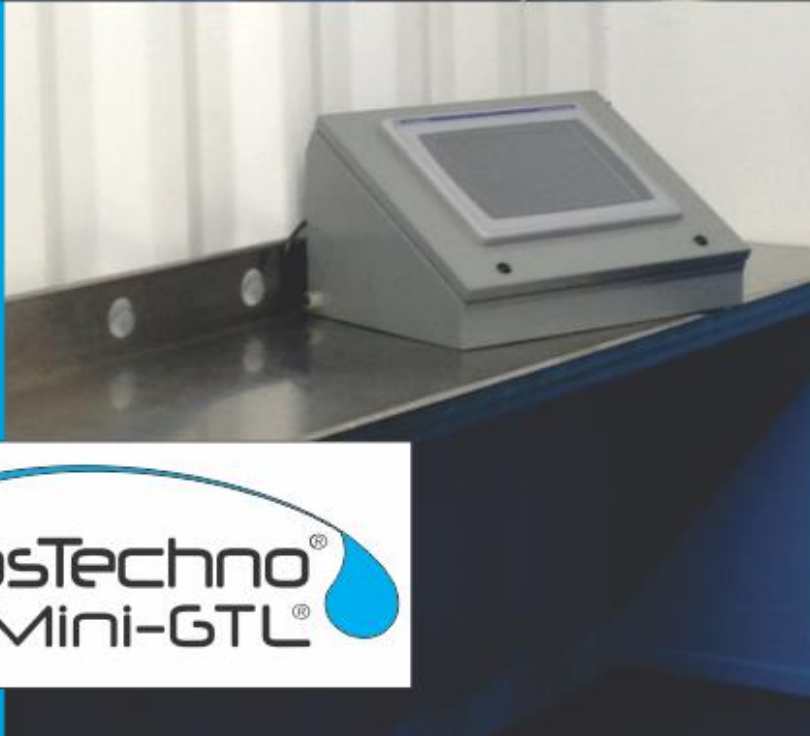
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**GasTechno
 Mini-GTL**
 PO Box 648 16110th Lake Michigan 49796-0648
 29000 Airport View - Baytown, Michigan 49715

GAS TECHNOLOGIES LLC

TR	Date	Scale
	7-21-2014	
Eds	GasTechno Mini-GTL	
RTLGC001	Rev	Sheet
	3.7	





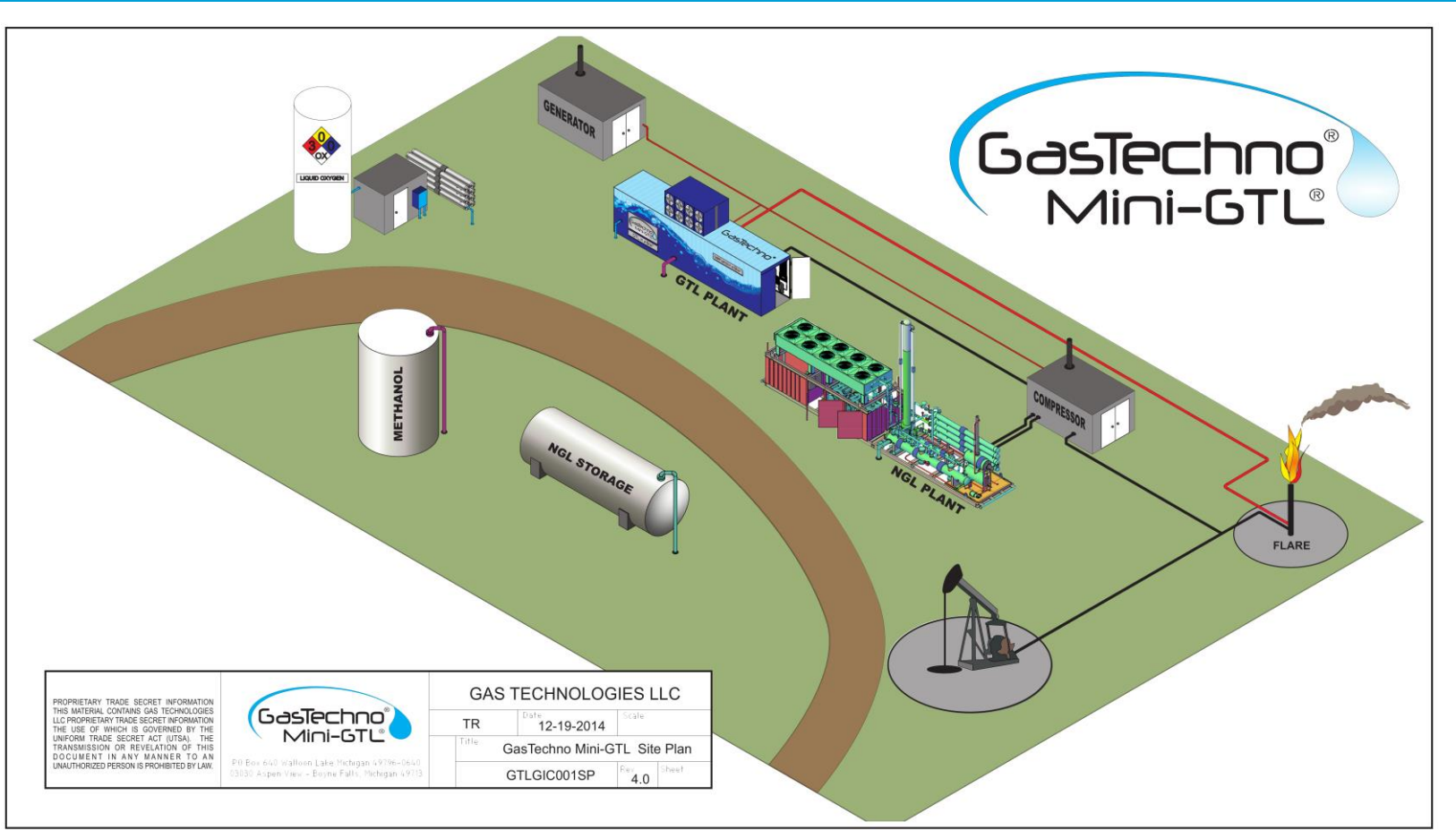




MOVING TO OIL FIELD IN NORTH DAKOTA “UNDER CONSTRUCTION”

300,000 scfd GasTechno Mini GTL unit – 40 bbl/d + NGL

SITE LAYOUT (NORTH DAKOTA)

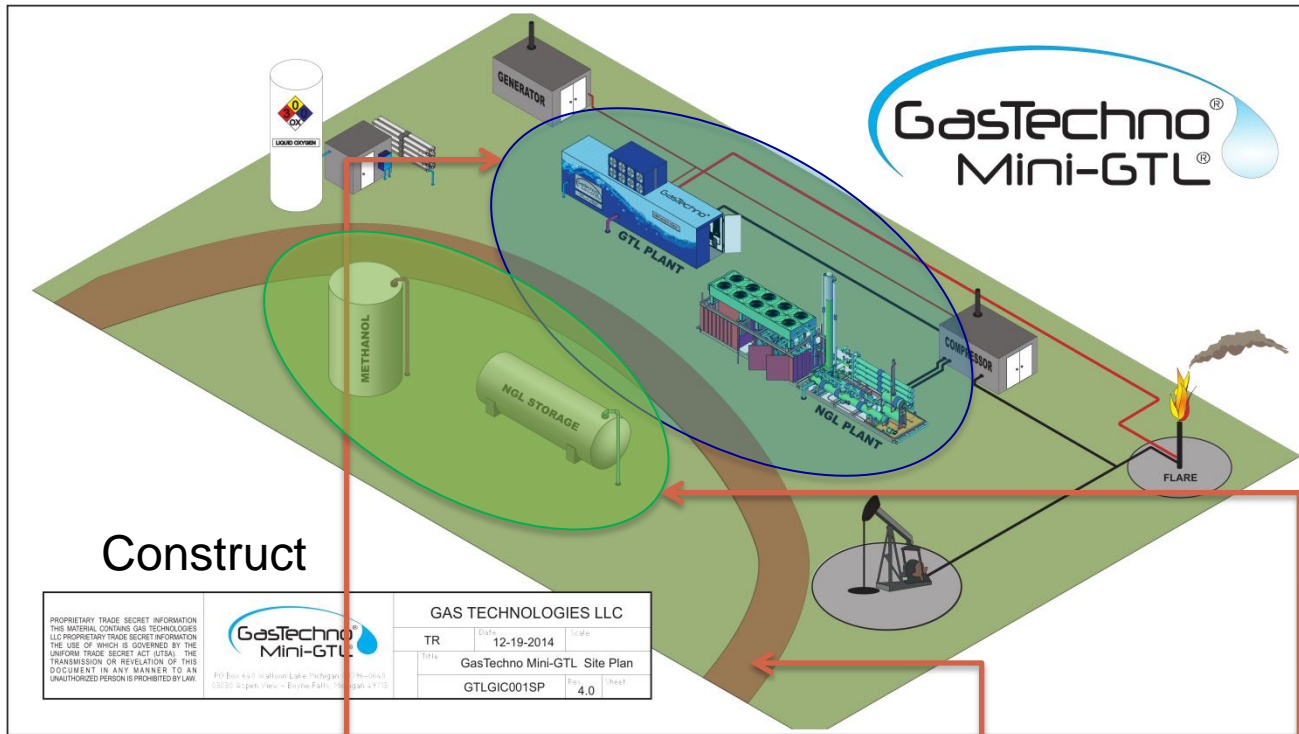


GRANT BUDGET

Item	Total	NDIC	GEF Cash	GEF In-kind
NGL & GTL construction	2,000,000	430,000	700,000	870,000
Plant Transportation and setup	30,000			30,000
GTL operation costs and local sourcing	300,000		300,000	
Management + HSE consultant	368,000	120,000	248,000	
Public awareness program	30,000	20,000	10,000	
Travel and expenses	72,000	30,000	42,000	
Total Expenses	2,800,000	600,000 (22%)	1,300,000	900,000 (78% Total)

ESTIMATED SCHEDULE

Engineer



Construct

Transport

Install
Storage

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		TR	12-19-2014
		Title	GasTechno Mini-GTL Site Plan
		GTLGIC001SP	Rev. 4.0

Week



Jan 5

Feb 2

Mar 2

April-June

*We understand the need for the Mini-GTL is great with the possibility of **100 plus units required**. We are well positioned to provide initial fabrication of the Mini-GTL units with the ability to ramp up our production as necessary to meet your needs.*

*We are **pleased to continue our support** ... and look forward to working with you on this project.*

ED PITTMAN

Senior Industry Sales Development Manager
Emerson Process Management



Emerson is one of the world's leading controls and instrument suppliers ...

*... we have **several hundred service and operational support personnel available** in the field throughout the US to support [GasTechno] wherever and whatever your needs require.*

COREY BLACK

Area Sales Director
Emerson Process Management



Our techs and I as well, have over 30+ years experience each in the chemical, petro-chem, oil, gas [industries] ... eight of those techs are currently working in the Dickinson, ND area ...

From our operational beginnings in your garage until what we have achieved in 2013 and 2014, I am here to support the GasTechno team as we bring this truly revolutionary technology into commercialization.

SAM PRICE

CEO / President
SEI Tech Inc



We believe there is great value in GasTechno's alternative technology to reduce flaring and are excited to support your efforts.

... give [customers] confidence in the insurability of GasTechno's innovative and emerging Gas to Liquids technology

JOE MAURO

President

Mauro Insurance Agency

... continuing support in attempting to locate optimal locations ... to maximize impact of technology

*As a petroleum and natural gas production and reservoir engineering consultant with 37 years of industry experience, I believe there is a need for this type of new technology and realize that very few companies or individual even know it exists. I applaud any venue which will **increase exposure of this ground-breaking technology** to a larger audience*

STEPHEN KOHLER

Engineering Consultant

*WTI is a not for profit ... company engaged in energy and related environmental research. Our scientists and engineers are **developing proprietary technologies for the production of hydrogen and liquid fuels from renewable and fossil resources.** In that regard, participation in this proposal is aligned with our future goals and research direction.*

*... support your grant application to North Dakota and will **make available our expertise and facilities** ...*

VIJAY SETHI

Senior Vice-President
Energy Production and Generation
Western Research Institute



*SM Energy is committed to seriously reviewing and considering GasTechno's Mini-GTL equipment technology and ... hopes to **test it on one of its well site locations.***

Please let me know ... how I may assist in moving our companies potentially mutually beneficial transaction forward.

BOBBY BALCER

Senior Operations Engineer
SM Energy



THE IDEAL GTL SOLUTION

- Simple, low maintenance design
- Small footprint
- Easily transportable product
- Low CAPEX
- Accepts off spec gas
- Accepts gas at variable flow rates

**OUR SINGLE-STEP
TECHNOLOGY WILL HELP
CHANGE THE FLARING
INDUSTRY IN NORTH
DAKOTA**





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